

# 如何获取自然科学、社会科学跨学科的研究前沿

万跃华

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SCI 茶室博客

<http://blog.sciencenet.cn/u/wanyuehua>

# 提纲： 聚焦研究前沿 深化自主创新

- 好的选题是科研至关重要的一步。那么，如何获得创新性的、具有国际前沿性的选题呢？今天将带领大家**在ESI数据库中淘宝**，捕捉自然科学、人文社会科学的研究前沿。大家会发现**ESI数据库**能轻松揭示那些发生在学科交叉领域中的创新选题！
- **1、如何寻找跨学科研究领域关键人才？**
- **2、如何追踪跨学科前沿——热点论文、高引论文**
- **3、如何追踪跨学科学科前沿——研究前沿**
- **4、ESI、Web of Science结合追踪跨学科研究前沿**

# 重视新兴的交叉领域

- **2013年7月17日**习近平总书记在中科院考察时发表跨学科的讲话：要加强新兴前沿交叉领域部署，这一要求，体现了对科技发展的深刻洞察，对未来科技发展具有重要指导意义。
- 科学前沿的很多重大突破得益于学科交叉融合，近百年来获得诺贝尔自然科学奖的**334**项成果中，近半数是学科交叉融合的结果。例如**DNA**分子双螺旋结构的发现，就是依靠物理学、生物学、化学交叉融合取得的。
- 随着科学的发展，仅凭某一学科领域的研究已很难解决复杂的现实问题。比如研究公共安全问题，就要把计算机、信息、法学、公共管理、化工、材料、物流、信息网络技术结合起来，甚至还要与传媒结合。
- 多学科的相互交叉、特别是人文社会科学向各领域的渗透、先进技术和手段的运用等，是发展前沿的重要特征。学科交叉点往往就是科学新的生长点、新的前沿，最有可能产生重大突破，使科学发生革命性的变化。



## 如何追踪自然科学、社会科学跨学科研究前沿？

“交叉学科重要，但做起来很难”，甚至成为身处交叉领域研究人员的共识。经费无处申请、成果无处发表，因此，加强新兴前沿交叉领域部署，从顶层推动交叉领域发展，破解交叉领域存在的难题，显得尤为重要和迫切。

2012年教育部建立了人文社会科学协同创新中心，鼓励人文社会科学学者开展高水平的跨学科研究。

# 汤森路透Web of Science跨学科平台

<http://www.webofscience.com/>

The screenshot shows the Web of Science homepage. At the top, there are navigation links for 'Web of Science™', 'InCites®', 'Journal Citation Reports®', 'Essential Science Indicators™', and 'EndNote®'. On the right, there are links for ' Yuehua', '帮助', and '简体中文'. The main header features the 'WEB OF SCIENCE™' logo and the 'THOMSON REUTERS™' logo. Below the header, there is a search bar with a dropdown menu for '所有数据库' (All Databases) which is currently open, showing a list of databases including 'Web of Science™ 核心合集', 'Biological Abstracts®', 'BIOSIS Citation Index™', 'BIOSIS Previews®', 'CABI: CAB Abstracts® 和 Global Health®', '中国科学引文数据库™', 'Current Contents Connect®', 'Data Citation Index™', 'Derwent Innovations Index™', 'FSTA® - 食品科学数据库', 'Inspec®', 'MEDLINE®', 'SciELO Citation Index', and 'Zoological Record®'. The search bar contains the text '示例: oil spill\* mediter' and a '检索' (Search) button. To the right of the search bar, there is a '主题' (Topic) dropdown and a '检索' (Search) button. Below the search bar, there is a '时间跨度' (Time Span) section with a radio button for '所有年份' (All Years) and a dropdown for '1864' to '2'. There are also links for '更多设置' (More Settings), '客户反馈和技术支持' (Customer Feedback and Technical Support), and '其他资源' (Other Resources). At the bottom, there are links for 'Web of Science 中的新增功能' (New Features in Web of Science) and '我的 Web of Science' (My Web of Science). The footer contains the text '汤森路透-AJE 学术写作助手' (Thomson Reuters-AJE Academic Writing Assistant) and '英文论文从写到投的一站式解决方案。' (One-stop solution for English papers from writing to submission).

点击选择数据库

选择Web of Science核心合集 点击进入

SCI、SSCI、A&HCI

# 汤森路透Web of Science跨学科平台

The screenshot shows the Web of Science search interface. At the top, there are navigation links for 'Web of Science™', 'InCites®', 'Journal Citation Reports®', 'Essential Science Indicators™', and 'EndNote®'. On the right, there are links for 'Yuehua', '帮助', and '简体中文'. The main header features the 'WEB OF SCIENCE™' logo and the 'THOMSON REUTERS™' logo. Below the header, there is a search bar with the text '检索 Web of Science™ 核心合集'. To the right of the search bar are links for '我的工具', '检索历史', and '标记结果列表'. A message below the search bar reads: '欢迎使用全新的 Web of Science! 查看快速入门教程。'

The search interface includes a '基本检索' (Basic Search) section. The search input field contains the example text '示例: oil spill\* mediterranean'. To the right of the input field is a '主题' (Topic) dropdown menu and a '检索' (Search) button. Below the input field is a '+ 添加另一字段' (Add another field) link. To the right of the search bar, there is a link: '单击此处获取有关改善检索的建议。'

The '时间跨度' (Time Span) section is located below the search bar. It includes a radio button for '所有年份' (All years) and a range selection from '1900' to '2014'. A link for '更多设置' (More settings) is highlighted with an orange arrow pointing to it. A large orange callout text reads: '点击更多设置现选择SCI、SSCI、A&HCI'.

At the bottom of the page, there are four navigation links: '客户反馈和技术支持', '其他资源', 'Web of Science 中的新增功能', and '我的 Web of Science'. The footer contains the text '汤森路透-AJE 学术写作助手' on the left and '英文论文从写到投的一站式解决方案。' on the right.

# 汤森路透Web of Science跨学科平台

Web of Science™ InCites® Journal Citation Reports® Essential Science Indicators™ EndNote® Yuehua 帮助 简体中文

## WEB OF SCIENCE™

THOMSON REUTERS™

检索 Web of Science™ 核心合集

我的工具 检索历史 标记结果列表

欢迎使用全新的 Web of Science! [查看快速入门教程。](#)

**基本检索**

示例: oil spill\* mediterranean

主题

检索

+ 添加另一字段

单击此处获取有关改善检索的建议。

### 时间跨度

所有年份

从 1900 至 2014

### 更多设置

**Web of Science 核心合集: 引文索引**

- Science Citation Index Expanded (SCI-EXPANDED) --1900年至今
- Social Sciences Citation Index (SSCI) --1900年至今
- Arts & Humanities Citation Index (A&HCI) --1975年至今
- Conference Proceedings Citation Index - Science (CPCI-S) --1990年至今
- Conference Proceedings Citation Index - Social Science & Humanities (CPCI-SSH) --1990年至今
- Book Citation Index-- Science (BKCI-S) --2005年至今
- Book Citation Index-- Social Sciences & Humanities (BKCI-SSH) --2005年至今

**Web of Science 核心合集: 化学索引**

- Current Chemical Reactions (CCR-EXPANDED) --1985年至今  
(包括 Institut Nationale de la Propriete Industrielle 化学结构数据, 可回溯至 1840 年)
- Index Chemicus (IC) --1993年至今

最新更新日期: 2014-03-14

自动建议的出版物名称

打开

保存为我的默认设置

# 利用著名的科学分析管理工具ESI 确定课题选题

网址: <http://isiknowledge.com/esi>

- 基本科学指标数据库（Essential Science Indicators, 简称ESI）是汤森路透在汇集和分析 Web of Science® (SCIE/SSCI)所收录的学术文献及其所引用的参考文献的基础上建立起来的分析型数据库。ESI提供十年滚动数据，每两个月更新一次，最近一次更新为2015年3月5日（本期ESI数据时间跨度：2004年1月1日至2014年12月31日）。
- ESI从引文分析的角度，将全部科学分为22个专业领域，分别对国家、研究机构、期刊、论文以及科学家进行统计分析和排序。

追踪自然科学、人文社会科学跨学科研究前沿

# 什么是ESI

- **Essential Science Indicators**（简称**ESI**）是基于**Web of science**核心合集（**Science Citation Index Expanded**和**Social Sciences Citation Index**）权威数据建立的分析型数据库，能够为科技政策制定者、科研管理人员、信息分析专家和研究人员提供多角度的学术成果分析。
- 利用**ESI**帮助科研人员跟踪自然科学和社会科学领域的研究发展趋势，评估潜在的合作者或同行，辅助科技政策、经济政策及科技发展规划的制定。学术成果分析。
- 针对机构、个人或学科的分析报告，可以支持学校发展规划处、科技处、研究生处、人事处等决策层工作。如科技处、发展规划处关注的本机构的科研产出、学术影响力、重点学科发展状况及与同领域机构的发展比较等；辅助人事处做好人才评估和引进工作等。

# Essential Science Indicators

## 定量分析研究绩效的工具

- 来自于 Web of Science 的SCI、SSCI10年滚动数据，基于22个学科；
- **总影响力（总引用次数）进入全球前1%的科学家、研究机构（或大学）排名；进入全球前50%的国家（或地区）及学术期刊排名**
- **高被引论文、热点论文和研究前沿分析**

INSTITUTION RANKINGS IN SOCIAL SCIENCES, GENERAL						
Display items with at least: <input type="text" value="0"/> Citation(s)						
Sorted by: Citations <input type="button" value="SORT AGAIN"/>						
1 - 20 (of 966)			Page 1 of 49			
	View	Institution	Papers	Citations	Citations Per Paper	
1	 	<a href="#">HARVARD UNIV</a>	6,891	71,491	10.37	
2	 	<a href="#">UNIV MICHIGAN</a>	5,352	52,715	9.85	
3	 	<a href="#">UNIV N CAROLINA</a>	5,852	47,111	8.05	
4	 	<a href="#">UNIV CALIF LOS ANGELES</a>	4,524	43,834	9.69	
5	 	<a href="#">UNIV WASHINGTON</a>	4,329	38,921	8.99	
6	 	<a href="#">COLUMBIA UNIV</a>	4,542	35,899	7.90	
7	 	<a href="#">JOHNS HOPKINS UNIV</a>	3,787	35,287	9.32	
8	 	<a href="#">UNIV WISCONSIN</a>	4,581	35,270	7.70	
9	 	<a href="#">UNIV TORONTO</a>	5,093	34,970	6.87	

# Essential Science Indicators

## 定量分析研究绩效的工具

- **热点论文 (Hot Papers)**：由汤森路透 (Thomson Reuters) 每两个月根据引文数量统计的**22**个学科的热点论文。这些论文是最近两年内发表且被引频次在最近两个月内排名达到各学科领域的前**0.1%**。
- **研究前沿 (Research Fronts)**：由汤森路透 (Thomson Reuters) 根据共被引分析和聚类算法选出的学科最新研究前沿，反映现代科学中的研究密集型和突破性领域，每个研究前沿包含一组高被引论文。

### 高被引论文 (Highly Cited Papers)

最近10年发表的论文，总被引次数与同年度，同学科发表论文相比排名前1%的论文。

# 全球高被引论文的国家分布（2004-2014）



高被引论文  
128,498篇

高被引论文超过1万篇的国家：

美国： 67,0683 绝对优势

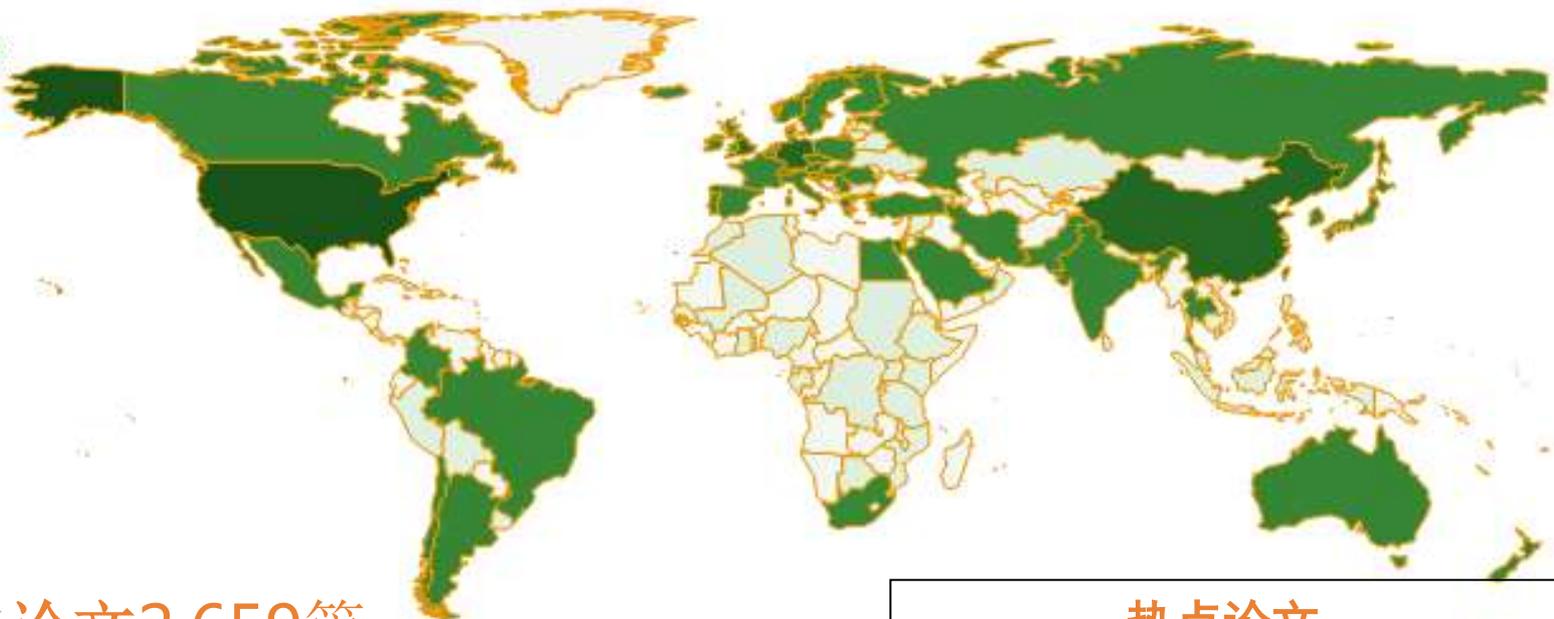
英国： 16,932

德国： 15,252

中国： 14,191

数据来源： 汤森路透的ESI数据库

# 全球热点论文的国家分布（2004-2014）



热点论文2,659篇

热点论文：  
美国： 1458  
英国： 482  
中国： 415  
德国： 408  
加拿大： 299

图书馆学科服务专题

学科热点与研究前沿  
人文社会科学篇  
(管理学专题)

2013年第4期

图书馆学科服务专题

学科热点与研究前沿  
人文社会科学篇  
(心理学专题)

2013年第6期

图书馆学科服务专题

学科热点与研究前沿  
人文社会科学篇  
(经济学与商学专题)

2013年第3期

利用ESI、SCI、SSCI编辑了30多本社会科学研究前沿，学科涉及管理学、经济学、教育学、传播学、心理学、艺术学、法律等，许多研究前沿均是跨学科的。

图书馆学科服务专题

学科热点与研究前沿  
人文社会科学篇  
(经济学与商学专题)

2013年第5期  
总第7期



2013年7月

图书馆学科服务专题

学科热点与研究前沿  
人文社会科学篇

2012年第2期



2012年11月

图书馆学科服务专题

学科热点与研究前沿  
人文社会科学篇

2013年第1期  
总第3期



2013年3月

# 汤森路透（Thomson Reuters）基本科学指标数据库（Essential Science Indicators, 简称ESI）

网址：<http://isiknowledge.com/esi>

点击进入ESI

Web of Science™ InCites® Journal Citation Reports® Essential Science Indicators™ EndNote®

WEB OF SCIENCE™ THOMSON REUTERS

搜索 Web of Science™ 核心合集

我的工具 检索历史 标记结果列表

基础检索

2012 出版年 搜索

时间跨度

所有年份

从 1985 至 2014

更多设置

Web of Science 核心合集: 引文索引

- Science Citation Index Expanded (SCI-EXPANDED) --1990年至今
- Social Sciences Citation Index (SSCI) --2000年至今
- Conference Proceedings Citation Index - Science (CPCI-S) --2001年至今
- Conference Proceedings Citation Index - Social Science & Humanities (CPCI-SSH) --2001年至今

Web of Science 核心合集: 化学索引

- Current Chemical Reactions (CCR-EXPANDED) --1985年至今  
(来源 Institut National de la Propriété Industrielle 化学结构数据库, 可追溯到 1640 年)
- Index Chemicus (IC) --1993年至今

最新更新日期: 2014-03-07

自动建议的出版物名称

打开

(请务必保存这些设置, 请登录或注册)

# 利用著名的科学分析管理工具ESI 确定选题

网址: <http://isiknowledge.com/esi>

2004年1月1日 - 2014年12月31日

ISI Web of Knowledge™

Essential Science Indicators™

Essential Science Indicators has been updated as of March 5, 2015 to cover a 11-year plus 0-month period, January 1, 2004-December 31, 2014.

[Information for New Users](#)

引文排名  
高被引论文  
引文分析

Citation Rankings:	<a href="#">Scientists</a> <a href="#">Institutions</a> <a href="#">Countries/Territories</a> <a href="#">Journals</a>	Commentary: <input type="button" value="IN-CITES"/> <input type="button" value="SPECIAL TOPICS"/> <input type="button" value="SCIENCE-WATCH"/>
Most Cited Papers:	<a href="#">Highly Cited Papers (last 10 years)</a> <a href="#">Hot Papers (last 2 years)</a>	
Citation Analysis:	<a href="#">Baselines</a> <a href="#">Research Fronts</a>	

专家分析

3月5日更新

The Notices file was last updated Thu Mar 5 11:48:30 2015.

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科学家, 机构 – 各学科影响力的前1%  
国家/地区, 期刊 – 各学科影响力的前50%

# 利用著名的科学分析管理工具ESI 确定选题

网址: <http://isiknowledge.com/esi>

2004年1月1日 - 2014年12月31日

ISI Web of Knowledge™

Essential Science Indicators™

Essential Science Indicators has been updated as of March 5, 2015 to cover a 11-year plus 0-month period, January 1, 2004-December 31, 2014.

[Information for New Users](#)

引文排名  
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引文分析

Citation Rankings:	<a href="#">Scientists</a> <a href="#">Institutions</a> <a href="#">Countries/Territories</a> <a href="#">Journals</a>	Commentary: <input type="button" value="IN-CITES"/> <input type="button" value="SPECIAL TOPICS"/> <input type="button" value="SCIENCE-WATCH"/>
Most Cited Papers:	<a href="#">Highly Cited Papers (last 10 years)</a> <a href="#">Hot Papers (last 2 years)</a>	
Citation Analysis:	<a href="#">Baselines</a> <a href="#">Research Fronts</a>	

专家分析

3月5日更新

NOTICES      PERSONAL  
The Notices file was last updated Thu Mar 5 17:48:30 2015

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高影响论文-各学科影响力的前1%  
热点论文-各学科影响力的前0.1%  
全球各学科论文影响力基准值  
研究前沿-各学科影响力的前1%

# 利用著名的科学分析管理工具ESI 确定选题

- 研究人员可以系统地、有针对性地分析国际科技文献, 从而了解一些著名的科学家、研究机构（或大学）、国家（或区域）和学术期刊在某一学科领域的发展和影响；同时科研管理人员也可以利用该资源找到影响决策分析的基础数据。
- 1、分析特定研究机构、国家、公司和学术期刊的研究绩效和影响力；  
2、在22个专业领域内分别对国家、研究机构、期刊、论文、科学家进行统计分析和排序；
- 3、跟踪自然科学和社会科学领域内的研究发展趋势，给出衡量研究绩效的标尺；
- 4、评估潜在的合作者、评论家、同行和雇员；  
5、测定特定研究领域的研究产出与影响；
- 6、及时获知各领域内高被引论文和近期最关注的话题；
- 7、通过共引分析方法，揭示各个学科当前的研究前沿，锁定隐含的突破性研究；
- 8、通过引文数据库揭示不同学科发展的趋势。

# ESI 22 学科

- Agricultural Sciences
- Biology & Biochemistry
- Chemistry
- Clinical Medicine
- Computer Science
- **Economics & Business**
- Engineering
- Environment/Ecology
- Geosciences
- Immunology
- Materials Science

Mathematics  
Microbiology

Molecular Biology & Genetics

**Multidisciplinary**

Neuroscience & Behavior

Pharmacology & Toxicology

Physics

Plant & Animal Science

**Psychiatry/Psychology**

**Social Sciences, General**

Space Science

# 如何寻找跨学科领域关键人才？

人才评估与引进——特别是跨学科领军人物

# 利用ESI寻找材料科学领域关键人才

ISI Web of Knowledge<sup>SM</sup>

Essential Science Indicators<sup>SM</sup>

Essential Science Indicators was updated on September 12, 2014 to cover a 10-year plus 6-month period, January 1, 2004-June 30, 2014.

[Information for New Users](#)

引文排名

Citation Rankings:	<a href="#">Scientists</a> <a href="#">- Institutions</a> <a href="#">- Countries/Territories</a> <a href="#">- Journals</a>	Commentary: <a href="#">IN-CITES</a> <a href="#">SPECIAL TOPICS</a> <a href="#">SCIENCE-WATCH</a>
Most Cited Papers:	<a href="#">- Highly Cited Papers (last 10 years)</a> <a href="#">- Hot Papers (last 2 years)</a>	
Citation Analysis:	<a href="#">- Baselines</a> <a href="#">- Research Fronts</a>	

NOTICES

TUTORIAL

The Notices file was last updated Thu Sep 11 06:01:47 2014

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点击科学家（**Scientists**）—

了解各学科影响力进入全球前1%的科学家

# 利用ESI寻找材料科学领域关键人才

ISI Web of Knowledge™

Essential Science Indicators™

WELCOME ? HELP

## SCIENTISTS MENU

<b>BY FIELD</b>	Select a scientist from this field:	MATERIALS SCIENCE	GO
<b>OR</b>			
<b>BY NAME</b>	Select a scientist from the alphabet	(All Fields) AGRICULTURAL SCIENCES BIOLOGY & BIOCHEMISTRY CHEMISTRY CLINICAL MEDICINE COMPUTER SCIENCE ECONOMICS & BUSINESS ENGINEERING ENVIRONMENT/ECOLOGY GEOSCIENCES IMMUNOLOGY MATERIALS SCIENCE MATHEMATICS MICROBIOLOGY MOLECULAR BIOLOGY & GENETICS MULTIDISCIPLINARY NEUROSCIENCE & BEHAVIOR PHARMACOLOGY & TOXICOLOGY PHYSICS PLANT & ANIMAL SCIENCE	search. K L M N O P Q R S T U V W X Y Z
<ul style="list-style-type: none"><li>• Enter <b>WEINBERG</b> to search for citation data for any author whose last name is WEINBERG.</li><li>• Enter <b>WEINBERG RA</b> to search for citation data for any author whose last name is WEINBERG and whose first initials are RA.</li><li>• Enter <b>WEINBERG R*</b> to search for citation data for any author whose last name is WEINBERG and whose first initial is R, and who may have other subsequent initials (the asterisk stands for possible subsequent initials).</li><li>• If an author's last name includes spaces (e.g., Van Horn, de la Torre), enter this name without the space(s). For example, enter <b>VANHORN *</b> for Van Horn, <b>DELOSRIOS *</b> for de los Rios.</li><li>• If an author's last name includes a nonalphanumeric character (e.g., O'Donnell, Aguilar-Benitez), enter this name without the character. For example, enter <b>ODONNELL</b> for O'Donnell, <b>AGUILARBENITEZ</b> for Aguilar-Benitez.</li></ul>		<b>BEST SEARCH EXAMPLES</b>	

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了解材料科学学科科学家（Scientists）排名

# 材料科学领域共有4933名科学家进入全球前1%

康斯坦丁·诺沃肖罗夫

(Konstantin Novoselov)



英国曼彻斯特大学

SCIENTIST RANKINGS IN MATERIALS SCIENCE

ISI Web of Knowledge<sup>SM</sup>  
Essential Science Indicators<sup>SM</sup>  
全球前1%论文

材料科学论文总被引频  
次全球排名第17

Display items with at least:  Citation(s)

Sorted by: Citations SORT AGAIN

1 - 20 (of 4933)

	View	Scientist	Papers	Citations	Citations Per Paper
1		<a href="#">HANG_Y</a>	2,886	33,278	11.53
2		<a href="#">ZHANG_Y</a>	2,725	28,058	10.30
3		<a href="#">YANG_Y</a>	1,409	26,850	19.06
4		<a href="#">HANG_I</a>	2,665	26,118	9.80
5		<a href="#">LIU_Y</a>	2,832	24,597	8.69
6		<a href="#">LI_Y</a>	2,242	23,046	10.28
7		<a href="#">LI_I</a>	2,373	22,411	9.44
8		<a href="#">LIU_I</a>	1,617	21,243	13.14
9		<a href="#">ZHANG_I</a>	2,249	19,560	8.70
10		<a href="#">HANG_L</a>	2,002	18,188	9.08
11		<a href="#">ZHANG_H</a>	1,672	17,998	10.76
12		<a href="#">KIM_I</a>	1,516	16,548	10.92
13		<a href="#">WANG_H</a>	1,967	16,501	8.39
14		<a href="#">WANG_X</a>	1,673	16,472	9.85
15		<a href="#">ZHANG_L</a>	2,005	16,430	8.19
16		<a href="#">LI_L</a>	1,562	15,997	10.24
17		<a href="#">NOWOSELOV_KS</a>	17	15,975	939.71
18		<a href="#">GEIM_AK</a>	13	15,923	1,224.85
19		<a href="#">LEE_JH</a>	1,586	14,949	9.43
20		<a href="#">CHEN_I</a>	1,406	14,733	10.48

1 - 20 (of 4933)

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安德烈·盖姆 (GEIM AK)

缺点：同名同姓无法分辨

平均论文被引15,975次

# 材料科学领域共有4933名科学家进入全球前1%



12篇论文进入材料科学  
全球前1%

康斯坦丁·诺沃肖罗夫

安德烈·盖姆

点击进入SCI了解该文章详细情况

●英国曼彻斯特大学2位科学家安德烈·盖姆 (Andre Geim) 和康斯坦丁·诺沃肖罗夫

(Konstantin Novoselov) 因在二维空间材料石墨烯 (graphene) 方面的开创性实验而获得2010年诺贝尔物理学奖。

康斯坦丁·诺沃肖罗夫 (Konstantin Novoselov)

TOP PAPERS FOR NOVOSELOV, KS IN MATERIALS SCIENCE	
Sorted by: Citations	
1 - 12 (of 12)	Page 1 of 1
1 Citations: 10,904	
Title:	THE RISE OF GRAPHENE
Authors:	GEIM AK, NOVOSELOV KS
Source:	NAT MATER 6 (3): 183-191 MAR 2007
Addresses:	Univ Manchester, Manchester Ctr Mesosci & Nanotechnol, Manchester M13 9PL, ENGLAND
Field:	MATERIALS SCIENCE
2 Citations: 2,386	
Title:	DETECTION OF INDIVIDUAL GAS MOLECULES ADSORBED ON GRAPHENE
Authors:	SCHEDIN P, GEIM AK, MOROZOV SY, HILL RW, BLAKE P, NITSSEN SP, NOVOSELOV KS
Source:	NAT MATER 6 (9): 652-655 SEP 2007
Addresses:	Univ Manchester, Manchester Ctr Mesosci & Nanotechnol, Manchester M13 9PL, ENGLAND; Russian Acad Sci, Inst Microelect Technol, Chernogolovka 142432, Russia; Univ Nijmegen, Inst Mol & Mat, NL-6525 ED Nijmegen, Netherlands
Field:	MATERIALS SCIENCE
3 Citations: 954	
Title:	MONITORING DOPANTS BY RAMAN SCATTERING IN AN ELECTROCHEMICALLY GRAFTED GRAPHENE FILM
Authors:	DAS A, PISANA S, CHAKRABORTY B, PISCANEC S, SAHA S, WAGHARE UV, NOVOSELOV KS, KRISHNAMURTHY HR, GEIM AK, FERGARI AC, SOOD AK
Source:	NAT NANOTECHNOL 3 (4): 210-215 APR 2008
Addresses:	Univ Manchester, Dept Phys & Astron, Manchester M13 9PL, ENGLAND; Indian Inst Technol, Dept Phys, Bangalore 560012, India; Indian Inst Technol, Dept Phys, Bangalore 560012, India; Indian Inst Technol, Theoret Sci Unit, Bangalore 560004, Karnataka, India; Univ Nijmegen, Inst Mol & Mat, Nijmegen, NL-6525 ED Nijmegen, Netherlands

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安德烈·盖姆、康斯坦丁·诺沃肖罗夫发表的石墨烯（**graphene**）论文

The screenshot shows the Web of Science interface for the article "The rise of graphene". The page includes the following information:

- Title:** The rise of graphene
- Authors:** Geim, AK (Geim, A. K.); Novoselov, KS (Novoselov, K. S.)
- Journal:** NATURE MATERIALS
- Volume/Issue/Start/End:** 卷: 6 期: 3 页: 183-191
- DOI:** 10.1038/nmat1049
- Publication Date:** 出版年: MAR 2007
- Abstract:** Graphene is a rapidly rising star on the horizon of materials science and condensed-matter physics. This strictly two-dimensional material exhibits exceptionally high crystal and electronic quality, and, despite its short history, has already revealed a cornucopia of new physics and potential applications, which are briefly discussed here. Whereas one can be certain of the realism of applications only when commercial products appear, graphene no longer requires any further proof of its importance in terms of fundamental physics. Owing to its unusual electronic spectrum, graphene has led to the emergence of a new paradigm of 'relativistic' condensed-matter physics, where quantum relativistic phenomena, some of which are unobservable in high-energy physics, can now be mimicked and tested in table-top experiments. More generally, graphene represents a conceptually new class of materials that are only one atom thick, and, on this basis, offers new inroads into low-dimensional physics that has never ceased to surprise and continues to provide a fertile ground for applications.
- Keywords Plus:** DIRAC FERMIONS; BERRYS PHASE; ELECTRONIC-STRUCTURE; BILAYER GRAPHENE; GRAPHITE; FILMS; GAS; SEMICONDUCTORS; NUCLEATION; SURFACE
- Author Information:** 通讯作者地址: Geim, AK (通讯作者); Univ Manchester, Manchester Ctr Mesosci & Nanotechnol, Oxford Rd, Manchester M13 9PL, Lancs, England.
- Address:** [1] Univ Manchester, Manchester Ctr Mesosci & Nanotechnol, Manchester M13 9PL, Lancs, England
- Email Address:** geim@man.ac.uk; kostya@graphene.org
- Author ID:** 作者识别号
- Publisher:** NATURE PUBLISHING GROUP, MACMILLAN BUILDING, 4 CRINAN ST, LONDON N1 9XW, ENGLAND
- Category/Classification:** 类别 / 分类

**Right-hand side statistics:**

- 引文网络:** 11,970 被引频次; 91 引用的参考文献; 查看 Related Records; 查看引证关系图; 创建引文网络
- 全部被引频次计数:** 12,245 / 所有数据库; 11,970 / Web of Science 核心合集; 703 / BIOSIS Citation Index; 541 / 中国科学引文数据库; 0 / Data Citation Index; 0 / ScELO Citation Index
- 最近的引文:** Nayak, Pratik: Cerium Oxide Nanoparticles Decorated Graphene Nanosheets for Selective Detection of Dopamine. JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, JUL 2015
- 此记录来自:** Web of Science™ 核心合集
- 建议修正:** 如果您发现此记录中数据的质量, 请提供修正建议。

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## 康斯坦丁·诺沃肖罗夫 (Konstantin Novoselov)

5 Citations: 329 

**Title:** FLUOROGRAPHENE: A TWO-DIMENSIONAL COUNTERPART OF TEFLON

**Authors:** NAIR RR; [REN WC](#); [JALIL R](#); RIAZ I; KRAVETS VG; BRITNELL L; [BLAKE P](#); [SCHEDIN P](#); MAYOROV AS; [YUAN ST](#); [KATSNELSON MI](#); [CHENG HM](#); STRUPINSKI W; BULUSHEVA LG; OKOTRUB AV; [GRIGORIEVA IV](#); GRIGORENKO AN; [NOVOSELOV KS](#); [GEIM AK](#)

**Source:** [SMALL](#)  
6 (24): 2877-2884 DEC 20 2010

**Addresses:** [Univ Manchester](#), Sch Phys & Astron, Manchester M13 9PL, Lancs, [England](#).  
[Chinese Acad Sci](#), Inst Met Res, Shenyang Natl Lab Mat Sci, Shenyang 110016, Peoples R China.  
[Radboud Univ Nijmegen](#), Inst Mol & Mat, NL-6525 AD Nijmegen, [Netherlands](#).  
Inst Elect Mat Technol, PL-01919 Warsaw, [Poland](#).  
SB RAS, Nikolaev Inst Inorgan Chem, Novosibirsk 630093, [Russia](#).

**Field:** [MATERIALS SCIENCE](#)

6 Citations: 160 

**Title:** VERTICAL FIELD-EFFECT TRANSISTOR BASED ON GRAPHENE-Ws2 HETEROSTRUCTURES FOR FLEXIBLE AND TRANSPARENT ELECTRONICS

**Authors:** GEORGIU T; [JALIL R](#); BELLE BD; BRITNELL L; GORBACHEV RV; [MOROZOV SV](#); [KIM YI](#); GHOLINIA A; HAIGH SJ; MAKAROVSKY O; EAVES L; PONOMARENKO LA; [GEIM AK](#); [NOVOSELOV KS](#); MISHCHENKO A

**Source:** [NAT NANOTECHNOL](#)  
8 (2): 100-103 FEB 2013

**Addresses:** [Univ Manchester](#), Sch Phys & Astron, Manchester M13 9PL, Lancs, [England](#).  
[Univ Manchester](#), Manchester Ctr Mesosci & Nanotechnol, Manchester M13 9PL, Lancs, [England](#).  
Inst Microelect Technol RAS, Chernogolovka 142432, [Russia](#).  
[Seoul Natl Univ](#), Coll Nat Sci, Dept Chem, Seoul 151747, [South Korea](#).  
[Univ Manchester](#), Ctr Mat Sci, Manchester M1 7HS, Lancs, [England](#).  
[Univ Nottingham](#), Sch Phys & Astron, Nottingham NG7 2RD, [England](#).

**Field:** [MATERIALS SCIENCE](#)

7 Citations: 128 

**Title:** HUNTING FOR MONOLAYER BORON NITRIDE: OPTICAL AND RAMAN SIGNATURES

**Authors:** GORBACHEV RV; RIAZ I; NAIR RR; [JALIL R](#); BRITNELL L; BELLE BD; [HILL EW](#); [NOVOSELOV KS](#); [WATANABE K](#); [TANIGUCHI T](#); [GEIM AK](#); [BLAKE P](#)

**Source:** [SMALL](#)  
7 (4): 465-468 FEB 18 2011

**Addresses:** [Univ Manchester](#), Ctr Mesosci & Nanotechnol, Manchester M13 9PL, Lancs  
Natl Inst Mat Sci, Tsukuba, Ibaraki 3050044, [Japan](#).

**Field:** [MATERIALS SCIENCE](#)

热点论文

石墨烯

(graphene)

《自然纳米技术》

高被引论文 (Highly Cited Papers)  
最近10年发表的论文, 总被引次数与同年度,  
同学科发表论文相比排名前1%的论文。

# 材料科学领域共有4933名科学家进入全球前1%

康斯坦丁·诺沃肖罗夫

(Konstantin Novoselov)



英国曼彻斯特大学

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全球前1%论文

材料科学论文总被引频  
次全球排名第17

Display items with at least: 0 Citation(s)  
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1 - 20 (of 4933) Page 1 of 247

	View	Scientist	Papers	Citations	Citations Per Paper
1		<a href="#">HANG_Y</a>	2,886	33,278	11.53
2		<a href="#">ZHANG_Y</a>	2,725	28,058	10.30
3		<a href="#">YANG_Y</a>	1,409	26,850	19.06
4		<a href="#">HANG_I</a>	2,665	26,118	9.80
5		<a href="#">LIU_Y</a>	2,832	24,597	8.69
6		<a href="#">LI_Y</a>	2,242	23,046	10.28
7		<a href="#">LI_I</a>	2,373	22,411	9.44
8		<a href="#">LIU_I</a>	1,617	21,243	13.14
9		<a href="#">ZHANG_I</a>	2,249	19,560	8.70
10		<a href="#">HANG_L</a>	2,002	18,188	9.08
11		<a href="#">ZHANG_H</a>	1,672	17,998	10.76
12		<a href="#">KIM_I</a>	1,516	16,548	10.92
13		<a href="#">MANG_H</a>	1,967	16,501	8.39
14		<a href="#">MANG_X</a>	1,673	16,472	9.85
15		<a href="#">ZHANG_L</a>	2,005	16,430	8.19
16		<a href="#">LI_L</a>	1,562	15,997	10.24
17		<a href="#">NOWOSELOV_KS</a>	17	15,975	939.71
18		<a href="#">GEM_AK</a>	13	15,923	1,224.85
19		<a href="#">LEE_IH</a>	1,586	14,949	9.43
20		<a href="#">CHEN_I</a>	1,406	14,733	10.48

1 - 20 (of 4933) Page 1 of 247

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缺点：同名同姓无法分辨

点击姓名了解该学者进入ESI的学科

# 材料科学领域共有4933名科学家进入全球前1%

康斯坦丁·诺沃肖罗夫 (Konstantin Novoselov)

英国曼彻斯特大学

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FIELD RANKINGS FOR NOVOSELOV, KS

Display items with at least:  Citation(s)

Sorted by:

1 - 2 (of 2)     Page 1 of 1

	View	Field	Papers	Citations	Citations Per Paper
1	<input type="checkbox"/>	<a href="#">PHYSICS</a>	122	55,988	458.92
2	<input type="checkbox"/>	<a href="#">MATERIALS SCIENCE</a>	17	15,975	939.71
	<input type="checkbox"/>	<a href="#">ALL FIELDS*</a>	160	72,827	455.17

1 - 2 (of 2)     Page 1 of 1

\* Includes data for all papers from ranked and unranked fields.

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学科涉及物理学、材料科学领域

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160篇论文进入ESI的物理、材料科学等领域

# 共有82801名科学家论文总被引次数进入全球前1%

## 康斯坦丁·诺沃肖罗夫 (Konstantin Novoselov)

### 论文总被引次数全球排名132

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#### SCIENTIST RANKINGS IN (ALL FIELDS)

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Sorted by: Citations

121 - 140 (of 82801)



Page 7 of 4141

	View	Scientist	Papers	Citations	Citations Per Paper
121		<a href="#">TAKAHASHI, K</a>	5,157	75,480	14.64
122		<a href="#">NAKAMURA, Y</a>	4,811	75,329	15.66
123		<a href="#">KIM, YS</a>	6,953	74,787	10.76
124		<a href="#">TAKAHASHI, H</a>	5,119	74,530	14.52
125		<a href="#">WANG, K</a>	6,217	74,232	11.94
126		<a href="#">KIM, D</a>	6,422	74,099	11.54
127		<a href="#">KUNAR, K</a>	6,756	73,908	10.94
128		<a href="#">BANERJEE, S</a>	4,664	73,325	15.72
129		<a href="#">KOBAYASHI, Y</a>	5,610	73,251	13.06
130		<a href="#">LIU, M</a>	7,023	73,248	10.43
131		<a href="#">ZHANG, P</a>	6,078	72,965	12.00
132		<a href="#">NOVOSELOV, KS</a>	160	72,827	455.17
133		<a href="#">SATO, K</a>	5,797	72,774	12.55
134		<a href="#">WATANABE, M</a>	5,119	72,250	14.11
135		<a href="#">SATO, T</a>	6,089	72,243	11.86
136		<a href="#">WATANABE, T</a>	5,594	71,439	12.77
137		<a href="#">KIM, SI</a>	7,440	71,299	9.58
138		<a href="#">LI, N</a>	6,299	71,094	11.29
139		<a href="#">CHEN, M</a>	5,647	70,633	12.51
140		<a href="#">LI, P</a>	6,356	69,638	10.96

121 - 140 (of 82801)



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## 70篇高被引论文

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TOP PAPERS FOR NOVOSELOV, KS IN (ALL FIELDS)

Sorted by: Citations SORT ASC

1 - 20 (of 70) Page 1 of 4

1 Citations: 15,048  
Title: ELECTRIC FIELD EFFECT IN ATOMICALLY THIN CARBON FILMS  
Authors: NOVOSELOV, KS, GEIM, AK, MEROZOV, SV, LIANG, D, ZHANG, Y, DUBONYS, SV, GRIGORIEVA, IV, PIRSOV, AA  
Source: SCIENCE, 306 (5696): 666-669 OCT 22 2004  
Addresses: Univ Manchester, Dept Phys, Manchester M13 9PL, Lancs, England, Russian Acad Sci, Inst Microelect Technol, Chernogolovka 142432, Russia  
Field: PHYSICS

2 Citations: 10,904  
Title: THE RISE OF GRAPHENE  
Authors: GEIM, AK, NOVOSELOV, KS  
Source: NAT MATER, 6 (3): 183-191 MAR 2007  
Addresses: Univ Manchester, Manchester Ctr Mesosci & Nanotechnol, Manchester M13 9PL, Lancs, England  
Field: MATERIALS SCIENCE

3 Citations: 7,162  
Title: TWO-DIMENSIONAL GAS OF MASSLESS DIRAC FERMIONS IN GRAPHENE  
Authors: NOVOSELOV, KS, GEIM, AK, MEROZOV, SV, LIANG, D, KATSNELSON, MI, GRIGORIEVA, IV, DUBONYS, SV, PIRSOV, AA  
Source: NATURE, 438 (7065): 197-200 NOV 10 2005  
Addresses: Univ Manchester, Manchester Ctr Mesosci & Nanotechnol, Manchester M13 9PL, Lancs, England

学科涉及物理学、材料科学、化学三个研究领域

# 材料科学领域共有4933名科学家进入全球前1%

夏幼南(Xia Younan)2013年获美国化学会材料化学奖、美国材料学会弗雷德·卡弗里纳米科学杰出讲座

ISI Web of Knowledge<sup>SM</sup>

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《Nano Letters》副主编

SCIENTISTS MENU

No matching records found for 'Xia, Younan'

《Advanced Materials》

的特邀主编

BY FIELD	Select a scientist from this field: (All Fields) <input type="text"/> GO
OR	
BY NAME	Select a scientist from the alphabetical list or enter a name to search. 0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Example: WEINBERG RA (more examples) Xia YN <input type="text"/> SEARCH

### SCIENTIST SEARCH EXAMPLES

- Enter **WEINBERG** to search for citation data for any author whose last name is Weinberg.
- Enter **WEINBERG RA** to search for citation data for any author whose last name is Weinberg and whose only initials are RA.
- Enter **WEINBERG R\*** to search for citation data for any author whose last name is Weinberg, whose first initial is R, and who may have other subsequent initials (the asterisk stands for possible subsequent initials).
- If an author's last name includes spaces (e.g., Van Horn, de los Rios), enter this name without the space(s). For example, enter **VANHORN \*** for Van Horn, **DELOSRIOS \*** for de los Rios.
- If an author's last name includes a nonalphanumeric character (e.g., O'Donnell, Aguilar Benitez), enter this name without the character. For example, enter **ODONNELL** for O'Donnell, **AGUILARBENITEZ** for Aguilar-Benitez.

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输入: Xia YN



主要研究方向是纳米结构材料及其在生物医学研究方面的应用

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夏幼南(Xia Younan)

材料科学论文篇均被引96.98次

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WELCOME HELP RETURN TO MENU IN-CITES

## FIELD RANKINGS FOR XIA, YN

Display items with at least:  Citation(s)

Sorted by: Citations SORT AGAIN

1 - 3 (of 3)

Page 1 of 1

	View	Field	Papers	Citations	Citations Per Paper
1	 	<a href="#">CHEMISTRY</a>	215	18,022	83.82
2	 	<a href="#">MATERIALS SCIENCE</a>	113	10,959	96.98
3	 	<a href="#">PHYSICS</a>	88	9,343	106.17
	 	<a href="#">ALL FIELDS*</a>	477	39,582	82.98

1 - 3 (of 3)

Page 1 of 1

\* Includes data for all papers from ranked and unranked fields.

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学科涉及化学、材料科学、物理学领域

点击了解该学者进入全球1%的材料科学高被引论文

点击了解该学者全球排名情况

477篇论文进入ESI的化学、材料科学、物理学领域

# 材料科学领域共有4705名科学家进入全球前1%

夏幼南(Xia Younan)

31篇论文进入材料科学  
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TOP PAPERS FOR XIA, YN IN MATERIALS SCIENCE

Sorted by: Citations SORT AGAIN

1 - 20 (of 31)

Page 1 of 2

1 Citations: 2,200

Title: ELECTROSPINNING OF NANOFIBERS: REINVENTING THE WHEEL?

Authors: LI D, XIA YN

Source: ADVAN MATER  
16 (14): 1151-1170 JUL 19 2004

Addresses: Univ Washington, Dept Chem, Seattle, WA 98195 USA

Field: MATERIALS SCIENCE

2 Citations: 462

Title: SUPERPARAMAGNETIC COLLOIDS: CONTROLLED SYNTHESIS AND NICHE APPLICATIONS

Authors: JIANG U, TENG XM, WANG Y, YANG H, XIA YN

Source: ADVAN MATER  
19 (1): 33-60 JAN 8 2007

Addresses: Univ Rochester, Dept Chem Engr, Rochester, NY 14627 USA  
Univ Washington, Dept Chem, Seattle, WA 98195 USA

Field: MATERIALS SCIENCE

3 Citations: 410

Title: GOLD NANOCAGES COVERED BY SMART POLYMERS FOR CONTROLLED RELEASE WITH NEAR-INFRARED LIGHT

Authors: YAVUZ MS, CHENG YY, CHEN LY, COBLEY CM, ZHANG Q, BYCENGA M, XIE TW, KIM C, SONG KH, SCHWARTZ AG, HANG LHY, XIA YN

Source: NAT MATER  
8 (12): 935-939 DEC 2009

Addresses: Washington Univ, Dept Biomed Engr, St Louis, MO 63130 USA

Field: MATERIALS SCIENCE

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1 - 3 (of 3) Page 1 of 1

	View	Field	Papers	Citations	Citations Per Paper
1		<a href="#">CHEMISTRY</a>	215	18,022	83.82
2		<a href="#">MATERIALS SCIENCE</a>	113	10,959	96.98
3		<a href="#">PHYSICS</a>	88	9,343	106.17
		<a href="#">ALL FIELDS*</a>	477	39,582	82.98

1 - 3 (of 3) Page 1 of 1

\* Includes data for all papers from ranked and unranked fields.

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材料科学论文总被引频  
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41 - 60 (of 4933)

Navigation icons

Page 3 of 247

	View	Scientist	Papers	Citations	Citations Per Paper
41		<a href="#">KIM, S</a>	1,167	10,983	9.41
42		<a href="#">XIA, YN</a>	113	10,959	96.98
43		<a href="#">LEE, SH</a>	1,102	10,912	9.90
44		<a href="#">HUANG, Y</a>	805	10,910	13.55
45		<a href="#">YANG, H</a>	1,200	10,910	9.09
46		<a href="#">LEE, IY</a>	616	10,802	17.54
47		<a href="#">LEE, K</a>	467	10,777	23.08
48		<a href="#">ZHOU, Y</a>	1,171	10,740	9.17
49		<a href="#">WANG, Q</a>	1,227	10,673	8.70
50		<a href="#">PARK, JH</a>	753	10,635	14.12
51		<a href="#">WANG, M</a>	1,104	10,466	9.48
52		<a href="#">ZHAO, Y</a>	983	10,333	10.51
53		<a href="#">CHEN, L</a>	1,066	10,331	9.69
54		<a href="#">LI, Z</a>	862	10,187	11.82
55		<a href="#">LANGDON, TG</a>	359	10,019	27.91
56		<a href="#">LIU, L</a>	1,317	9,863	7.49
57		<a href="#">ANTONIETTI, M</a>	135	9,748	72.21
58		<a href="#">LI, C</a>	800	9,655	12.07
59		<a href="#">LI, X</a>	1,088	9,611	8.83
60		<a href="#">ZHANG, W</a>	1,048	9,572	9.13

41 - 60 (of 4933)

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421 - 440 (of 82801)

Navigation: <<< [21] | 27 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 ] >>>

Page 22 of 4141

	View	Scientist	Papers	Citations	Citations Per Paper
421		<a href="#">CHEN, R</a>	2,677	39,958	14.93
422		<a href="#">ITO, H</a>	3,143	39,958	12.72
423		<a href="#">IATN, S</a>	2,659	39,940	15.02
424		<a href="#">PARK, SY</a>	3,575	39,912	11.16
425		<a href="#">XU, Q</a>	3,449	39,907	11.57
426		<a href="#">GAO, J</a>	3,876	39,825	10.27
427		<a href="#">SCHNEIDER, DP</a>	483	39,774	82.35
428		<a href="#">YANG, X</a>	4,146	39,680	9.57
429		<a href="#">KIM, DW</a>	3,055	39,649	12.98
430		<a href="#">DING, L</a>	1,775	39,609	22.31
431		<a href="#">CHEN, XM</a>	2,652	39,598	14.93
432		<a href="#">XIA, YN</a>	477	39,582	82.98
433		<a href="#">KIM, A</a>	3,479	39,575	11.38
434		<a href="#">BAL, Y</a>	2,698	39,546	14.66
435		<a href="#">XU, M</a>	3,237	39,531	12.21
436		<a href="#">YOSHIDA, S</a>	2,586	39,433	15.25
437		<a href="#">PATEL, S</a>	1,855	39,417	21.25
438		<a href="#">TAKAHASHI, S</a>	3,380	39,337	11.64
439		<a href="#">XU, Z</a>	3,124	39,204	12.55
440		<a href="#">ZHOU, Q</a>	3,429	39,198	11.43

421 - 440 (of 82801)

Navigation: <<< [21] | 27 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 ] >>>

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TOP PAPERS FOR XIA, YN IN (ALL FIELDS)

Sorted by: Citations SORTING

1 - 20 (of 108) Page 1 of 6

1 Citations: 2,200 [Cite](#) [Research Front](#) [Hist of Scncy](#)

Title: ELECTROSPINNING OF NANOFIBERS: REINVENTING THE WHEEL?

Authors: [LI D.](#) [XIA YN](#)

Source: [ADVAN MATER](#)  
16 (14): 1151-1170 JUL 19 2004

Addresses: [Univ Washington](#), Dept Chem, Seattle, WA 98195 USA

Field: [MATERIALS SCIENCE](#)

2 Citations: 1,606 [Cite](#) [Research Front](#) [Hist of Scncy](#)

Title: SHAPE-CONTROLLED SYNTHESIS OF METAL NANOCRYSTALS: SIMPLE CHEMISTRY MEETS COMPLEX PHYSICS?

Authors: [XIA YN](#); [XIONG YI](#); [LIM B](#); [SERARALAK SE](#)

Source: [ANGEW CHEM INT ED](#)  
48 (1): 60-103 2009

Addresses: [Washington Univ](#), Dept Biomed Engr, St Louis, MO 63130 USA;  
[Univ Washington](#), Dept Chem, Seattle, WA 98195 USA

Field: [CHEMISTRY](#)

3 Citations: 1,017 [Cite](#) [Research Front](#) [Hist of Scncy](#)

Title: Pd-Pt BIMETALLIC NANODENDRITES WITH HIGH ACTIVITY FOR OXYGEN REDUCTION

Authors: [LIM B](#); [JIANG MJ](#); [CAMARGO PHE](#); [CHO EC](#); [TAO J](#); [LI XM](#); [ZHU YN](#); [XIA YN](#)

Source: [SCIENCE](#)  
324 (5932): 1302-1305 JUN 5 2009

学科涉及化学、材料科学、  
物理学三个研究领域

# 追踪学科前沿——热点论文

- 热点论文（Hot Papers）：由汤森路透（Thomson Reuters）每两个月根据引文数量统计的22个学科的热点论文。这些论文是最近两年内发表且被引频次在最近两个月内排名达到各学科领域的前0.1%。

# 追踪学科前沿——热点论文

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Most Cited Papers:	<ul style="list-style-type: none"><li>- <a href="#">Highly Cited Papers (last 10 years)</a></li><li>- <a href="#">Hot Papers (last 2 years)</a></li></ul>	
Citation Analysis:	<ul style="list-style-type: none"><li>- <a href="#">Baselines</a></li><li>- <a href="#">Research Fronts</a></li></ul>	

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	<b>Institution:</b>	Materials Science	<i>ample: SALK INST*</i>
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	<b>Journal:</b>	Microbiology	<i>ample: Phys Rev Lett* (<a href="#">view full titles</a>)</i>
	SEARCH	Molecular Biology & Genetics	
		Multidisciplinary	
		Neuroscience & Behavior	
		Pharmacology & Toxicology	
		Physics	
		Plant & Animal Science	
		Psychiatry/Psychology	
		Social Sciences, general	
		Space Science	

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HOT PAPERS IN ECONOMICS & BUSINESS

Sorted by: Citations SORT AGAIN

1 - 20 (of 54) Page 1 of 3

Citations: 42

**Title:** GWAS OF 126,659 INDIVIDUALS IDENTIFIES GENETIC VARIANTS ASSOCIATED WITH EDUCATIONAL ATTAINMENT

**Authors:** RIBTVELD CA, WEDLAND SE, DERRINGER J, [YANG T](#), [ESKO T](#), MARTIN BM, WESTRA HJ, SHAHBAZOV K, ABDOLLAGUI A, [AGRAWAL A](#), ALBRECHT E, ALIZADEH BZ, [AMIN N](#), BARNARD J, BAUMEISTER SE, BENKE KS, BIELAK LF, BOATMAN JA, BOYLE PA, [DAVIES G](#), DE LEEUW C, ERLIND N, EVANS DS, FERGMANN R, [FISCHER K](#), [GIRGER C](#), GJESSING HK, HAGG S, [HARRIS JR](#), [HAYBARD C](#), HOLZAPFEL C, IBRAHIM-VERBAAS CA, [INGELSSON E](#), JACOBSSON B, JOSHI PK, JUGESSUR A, [KAANKINEN M](#), KANONI S, KARJALAINEN J, [KOLCIC I](#), KRISTIANSSON K, [KUTALIK Z](#), LAHTI J, [LEE SH](#), [LIN P](#), LIND PA, [LIU YM](#), LOHMAN K, LOITFELDER M, MCMAHON G, VIDAL PM, MBIRELLES O, MILANI L, MYHRE R, NUOTIO ML, OLDMEADOW CJ, PETROVIC KE, PEYROT WJ, [POLASEK O](#), QUAYE L, REINMAA E, [RICE TP](#), RIZZI TS, [SCHMIDT H](#), [SCHMIDT R](#), [SMITH AV](#), [SMITH JA](#), [TANAKA T](#), [TERREACCIANO A](#), VAN DER LOOS HJHM, [VITART V](#), [VOLZKE H](#), WELLMANN J, YU L, ZHAO W, ALLIK J, ATTIA JR, BANDINELLI S, BASTARDOT F, BEAUDUCHEP J, [BENNETT DA](#), [BERGER K](#), [BIHRET LI](#), [BOONMA DI](#), [BULTMANN U](#), [CAMPELL H](#), CHARRIS CF, CHERRAS L, [CHENG MK](#), [CICCIA F](#), [DE ANDRADE M](#), [DE JAGER PL](#), DE NEVE JB, [DEARY IJ](#), DEDOUSSIS GV, [DRUKAKAS P](#), DIMITRIOU M, [ERIKSDOTTIR G](#), ELDERSON MP, [ERIKSSON IG](#), [EVANS DM](#), PAUL JD, [FRERCCCI L](#), GARCIA ME, [GRONBERG H](#), GUOMASON V, [HALL P](#), [HARRIS JW](#), [HARRIS TB](#), [HASTIE ND](#), [HEATH AC](#), [HERNANDEZ DG](#), [HOFFMANN W](#), [HOFFMAN A](#), [HOLLE R](#), HOLLIDAY EG, [HOTIENGA II](#), [IACONO MG](#), [ILLIG T](#), [JARVELIN MR](#), [KAHONEN M](#), [KAPRIO J](#), KIRKPATRICK RM, KOWGIER M, LATVALA A, [LAWNER LJ](#), [LAHLOR DA](#), [LEHTIMAKI T](#), [LI JM](#), [LICHTENSTEIN P](#), [LICHTNER P](#), LIBWALD DC, MADSEN PA, [MAGNUSSEN PKE](#), MAKINEN TB, MASALA M, [MCQUE M](#), [KRISPALU A](#), [MIELCK A](#), MILLER MB, [MONTGOMERY GW](#), [MURHERTIE S](#), [NOZELT DR](#), [OOSTRA BA](#), [PALMER LJ](#), [PALOTIE A](#), [PENNING BRUH](#), [PEROLA M](#), PEYSER PA, PREISIG M, [RAIKONEN K](#), [RAITAKARI OT](#), [SEALO A](#), [RING SM](#), [RIPATTI S](#), [RIVADENEIRA E](#), [RUDAN J](#), [RUSTICHINI A](#), [SALOMAA V](#), SARIN AP, [SCHLESSINGER D](#), [SCOTT RI](#), [SMIDER H](#), ST POURCAIN B, [STARR IN](#), [SUL JH](#), [SURAKKA I](#), [SVENTO R](#), [TEJNER A](#), [TIEBERER H](#), VAN ROOIJ PJA, VAN WAGONER DR, [VARTAINEN E](#), [VIKKARI T](#), [WOLLENSTEIDER P](#), [VONK JM](#), [WARDER G](#), WEIR DR, [WICHMANN HK](#), [WIDEN E](#), [WILLERSEN G](#), [WILSON JF](#), [WRIGHT AP](#), CONLEY D, DAVEY-SMITH G, [FRANKE L](#), GROENEN PJF, [HOFFMAN A](#), [IOHANNESSEN M](#), KARDIA SLR, [KRUGGER RW](#), [LAIRSON D](#), [MARTIN NG](#), [MEYER MN](#), [ROSTHUMA D](#), [THIRIK AR](#), [TIMPSON NJ](#), [UITERLINDEN AG](#), [VAN DULIN CM](#), [VISSCHER PM](#), BENJAMIN DJ, CESARINI D, KOELLINGER PD

**Source:** [SCIENCE](#) 340 (6139): 1467-1471 JUN 21 2013

**Addresses:** Erasmus Univ, Erasmus Sch Econ, Dept Appl Econ, NL-3000 DR Rotterdam, [Netherlands](#).  
Erasmus MC, Dept Epidemiol, NL-3000 CA Rotterdam, [Netherlands](#).  
[Queensland Inst Med Res](#), Brisbane, Qld 4006, [Australia](#).  
Univ Colorado, Inst Behav Genet, Boulder, CO 80309 USA.  
[Univ Queensland](#), Princess Alexandra Hosp, Diamantina Inst, Brisbane, Qld 4102, [Australia](#).  
[Univ Tartu](#), Estonian Genome Ctr, EE-51010 Tartu, [Estonia](#).  
[Univ Queensland](#), Sch Psychol, Brisbane, Qld 4072, [Australia](#).  
[Univ Groningen](#), Univ Med Ctr Groningen, Dept Genet, NL-9713 GZ Groningen, [Netherlands](#).  
[Univ Queensland](#), Queensland Brain Inst, Brisbane, Qld 4072, [Australia](#).  
Vrije Univ Amsterdam, Dept Biol Psychol, NL-1081 BT Amsterdam, [Netherlands](#).  
[Washington Univ](#), Dept Psychiat, Sch Med, St Louis, MO 63110 USA.  
German Res Ctr Environm Hlth, Helmholtz Zentrum Munchen, Inst Genet Epidemiol, D-85764 Neuherberg, Germany.  
[Univ Groningen](#), Univ Med Ctr Groningen, Dept Epidemiol, NL-9700 RB Groningen, [Netherlands](#).  
Erasmus MC, Dept Epidemiol, Genet Epidemiol Unit, NL-3000 CA Rotterdam, [Netherlands](#).  
Cleveland Clin, Heart & Vasc & Lerner Res Inst, Cleveland, OH 44195 USA.  
Univ Med Greifswald, Inst Community Med, D-17489 Greifswald, Germany.  
[Univ Toronto](#), Samuel Lunenfeld Res Inst, Mt Sinai Hosp, Toronto, ON M5G 1X5, [Canada](#).  
[Univ Michigan](#), Sch Publ Hlth, Dept Epidemiol, Ann Arbor, MI 48109 USA.  
[Univ Minnesota](#), Div Biostat, Minneapolis, MN 55455 USA.

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HOT PAPERS IN CHEMISTRY

Sorted by: Citations SORT AGAIN

1 - 20 (of 324)

Page 1 of 17

1 Citations: 641

**Title:** SEQUENTIAL DEPOSITION AS A ROUTE TO HIGH-PERFORMANCE PEROVSKITE-SENSITIZED SOLAR CELLS  
**Authors:** BURSCHKA J., PELLET N., MOON S.J., HUMPHRY-BAKER R., GAO P., NAZEERUDDIN M., GRATZEL M.  
**Source:** NATURE 499 (7458): 516-+ JUL 18 2013  
**Addresses:** Swiss Fed Inst Technol, Dept Chem & Chem Engr, Lab Photon & Interfaces, CH-1015 Lausanne, Switzerland.  
 Max Planck Inst Solid State Res, D-70569 Stuttgart, Germany.  
**Field:** CHEMISTRY

2 Citations: 414

**Title:** THE CHEMISTRY OF TWO-DIMENSIONAL LAYERED  
**Authors:** CHEEMALLA M., SHIN HS., EDA G., LI L.T., I  
**Source:** NAT CHEM 5 (4): 263-275 APR 2013  
**Addresses:** Rutgers State Univ, Piscataway, NJ 08854  
 UNIST, Interdisciplinary Sch Green Energy  
 UNIST, Low Dimens Carbon Mat Ctr, Ulsan I  
 Natl Univ Singapore, Dept Phys, Singapore  
 Natl Univ Singapore, Dept Chem, Singapore  
 Natl Univ Singapore, Graphene Res Ctr, Si  
 Acad Sinica, Inst Atom & Mol Sci, Taipei  
 National Technol Univ, Sch Mat Sci & Engr,  
**Field:** CHEMISTRY

3 Citations: 321

**Title:** METAL-ORGANIC FRAMEWORKS AND SELF-ASSEMBLED  
 ORGANIC MATERIALS  
**Authors:** COOK TR., ZHENG YK., STANG PJ.  
**Source:** CHEM REV 113 (1): 734-777 JAN 2013  
**Addresses:** UNIV UTAH, DEPT CHEM, SALT LAKE CITY, UT

按出版年排

HOT PAPERS IN CHEMISTRY

Sorted by: Publication Year SORT AGAIN

1 - 20 (of 324)

Page 1 of 17

1 Citations: 343

**Title:** DYE-SENSITIZED SOLAR CELLS WITH 12% EFFICIENCY ACHIEVED THROUGH THE MULTISCALE ENGINEERING OF PEROVSKITE SENSITIZERS  
**Authors:** BAIKER P., ISHIGAKI S., GAO P., HUMPHRY-BAKER R., CHEN Q., ARMEL-ANTON R., TAYLOR J.L., WILKINSON J., HANSEN K., GRATZEL M.  
**Source:** NAT CHEM 6 (2): 242-247 MAR 2014  
**Addresses:** Ecole Polytech Fed Lausanne, IPI, CH-1015 Lausanne, Switzerland.  
 Ecole Polytech Fed Lausanne, Lab Comput Chem & Statist LCC, CH-1015 Lausanne, Switzerland.  
**Field:** CHEMISTRY

2 Citations: 186

**Title:** CARBOXYLATE-ASSISTED FUTHRENE-CATALYZED ALKYLE AROMATIZATION BY C-C/NIET-H BOND FUNCTIONALIZATION  
**Authors:** KISHIMOTO T.  
**Source:** ADVANT CHEM SER 41 (2): 381-395 FEB 18 2014  
**Addresses:** Ruhr-Universitaet, Inst Organ & Biomol Chem, D-44781 Bochum, Germany.  
**Field:** CHEMISTRY

3 Citations: 95

**Title:** THE CROSS-SENSITIVE COUPLING OF C-SP2-H BONDS: A VERSATILE STRATEGY FOR C-C BOND FORMATION  
**Authors:** CHEN Q., EMMERICH T., LI L.T.  
**Source:** NATURE CHEM 6 (2): 14-19 JAN 9 2014  
**Addresses:** McGill Univ, Dept Chem, Montreal, PQ H3A 2B4, Canada.  
 McGill Univ, PAPRIQ Ctr Green Chem & Catalysis, Montreal, PQ H3A 2B4, Canada.  
**Field:** CHEMISTRY

4 Citations: 80

**Title:** FUNCTIONAL PI-CONJUGATED POLYMERS AND THEIR APPLICATIONS

# 追踪工程学科前沿——热点论文

## 利用ESI检索到工程学科有232篇进入热点论文 (Hot Papers)

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**HOT PAPERS IN ENGINEERING**

Sorted by: Citations SORT AGAIN

1 - 20 (of 232) Page 1 of 12

1 Citations: 249

**Title:** SOLAR CELL EFFICIENCY TABLES (VERSION 41)

**Authors:** GREEN NA, EMERY K, HISHIKAMA Y, WARTA W, DUNLOP ED

**Source:** PROG PHOTOVOLTAICS 21 (1): 1-11 JAN 2013

**Addresses:** Univ New S Wales, Australian Ctr Adv Photovolta, Sydney, NSW 2052, Australia.  
Natl Renewable Energy Lab, Golden, CO 80401 USA.  
Natl Inst Adv Ind Sci & Technol, Res Ctr Photovolta RCPV, Tsukuba, Ibaraki 3058568, Japan.  
Fraunhofer Inst Solar Energy Syst, Dept Solar Cells Mat & Technol, D-79110 Freiburg, Germany.  
Commiss European Communities, Joint Res Ctr, Renewable Energy Unit, Inst Energy, IT-21027 Ispra, VA, Italy.

**Field:** ENGINEERING

2 Citations: 198

**Title:** THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY USING AN EARTH-ABUNDANT CU2ZNSNS4 ABSORBER

**Authors:** SHIN B, GUNAWAN O, ZHU Y, BOJARCZUK NA, CHEY SJ, GOHA S

**Source:** PROG PHOTOVOLTAICS 21 (1): 72-76 JAN 2013

**Addresses:** IBM Corp, Thomas J Watson Res Ctr, Yorktown Hts, NY 10598 USA.

**Field:** ENGINEERING

3 Citations: 170

**Title:** SOLAR CELL EFFICIENCY TABLES (VERSION 42)

**Authors:** GREEN NA, EMERY K, HISHIKAMA Y, WARTA W, DUNLOP ED

**Source:** PROG PHOTOVOLTAICS 21 (5): 827-837 AUG 2013

**Addresses:** Univ New S Wales, Australian Ctr Adv Photovolta, Sydney, NSW 2052, Australia.  
Natl Renewable Energy Lab, Golden, CO 80401 USA.  
Natl Inst Adv Ind Sci & Technol, Res Ctr Photovolta RCPV, Tsukuba, Ibaraki 3058568, Japan.  
Fraunhofer Inst Solar Energy Syst, Solar Cells Mat & Technol Dept, D-79110 Freiburg, Germany.  
European Commiss Joint Res Ctr, Renewable Energy Unit, Inst Energy, IT-21027 Ispra, Italy.

# 追踪材料学科前沿——热点论文

## 利用ESI检索到材料学科有133篇进入热点论文 (Hot Papers)

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HOT PAPERS IN MATERIALS SCIENCE

Sorted by: Citations [SORT AGAIN]

1 - 20 (of 133) Page 1 of 7

1 Citations: 666 [GDI](#)

**Title:** A POLYMER TANDEM SOLAR CELL WITH 10.6% POWER CONVERSION EFFICIENCY

**Authors:** [YOU JB.](#) [DOU LT.](#) [YOSHIMURA K.](#) [KATO T.](#) [OHYA K.](#) [MORIARTY T.](#) [EMERY K.](#) [CHEN CC.](#) [GAO T.](#) [LI G.](#) [YANG Y.](#)

**Source:** [NAT COMMUN](#) 4: - FEB 2013

**Addresses:** [Univ Calif Los Angeles](#), Dept Mat Sci & Engrn, Los Angeles, CA 90095 USA.  
[Sunstone Chen Co Ltd](#), Tsukuba Mat Dev Lab, Tsukuba, Ibaraki 3003294, [Japan](#).  
[Natl Renewable Energy Lab](#), Golden, CO 80401 USA.  
[Univ Calif Los Angeles](#), Calif Nanosyst Inst, Los Angeles, CA 90095 USA.

**Field:** [MATERIALS SCIENCE](#)

2 Citations: 269 [GDI](#)

**Title:** CARBON NANOTUBES: PRESENT AND FUTURE COMMERCIAL APPLICATIONS

**Authors:** [DE VOLDER MPL.](#) [TAMVICK SH.](#) [BAUGHMAN DE.](#) [BRET AJ.](#)

**Source:** [SCIENCE](#) 339 (6119): 535-539 FEB 1 2013

**Addresses:** [IMEC](#), B-3001 Heverlee, [Belgium](#).  
[KULeuven](#), Dept Mech Engrn, B-3000 Louvain, [Belgium](#).  
[Harvard Univ](#), Sch Engrn & Appl Sci, Cambridge, MA 02138 USA.  
[Univ Michigan](#), Dept Mech Engrn, Ann Arbor, MI 48109 USA.  
[MIT](#), Dept Mech Engrn, Cambridge, MA 02139 USA.  
[Univ Texas Dallas](#), Alan G MacDiarmid NanoTech Inst, Richardson, TX 75083 USA.  
[Univ Texas Dallas](#), Dept Chem, Richardson, TX 75083 USA.

**Field:** [MATERIALS SCIENCE](#)

3 Citations: 267 [GDI](#)

**Title:** BEYOND 11% EFFICIENCY: CHARACTERISTICS OF STATE-OF-THE-ART CU2ZNS(S,SE)(4) SOLAR CELLS

**Authors:** [TODOROV TK.](#) [TANG J.](#) [BAG S.](#) [GIDMANAN O.](#) [GOREMEN T.](#) [ZHU Y.](#) [NITZI DR.](#)

**Source:** [ADV ENERGY MATER](#) 3 (1): 34-38 JAN 2013

**Addresses:** IBM TJ Watson Res Ctr, Yorktown Hts, NY 10598 USA.

# 追踪社会科学学科前沿——热点论文

- 利用ESI检索到社会科学有**134**篇进入**热点论文 (Hot Papers)**。

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热点论文      研究前沿

HOT PAPERS IN SOCIAL SCIENCES, GENERAL

Sorted by: Citations    SORT AGAIN

1 - 20 (of 134)      Page 1 of 7

1    Citations: 161    HOT PAPER    RESEARCH FRONT    WEB OF SCIENCE

Title:      COHORT PROFILE: THE CHILDREN OF THE 90S-THE INDEX OFFSPRING OF THE AVON LONGITUDINAL STUDY OF PARENTS AND CHILDREN

Authors:    [BOYD A.](#) [GOLDING T.](#) [MACLEOD T.](#) [LAWLOR DA.](#) [FRASER A.](#) [HENDERSON T.](#) [MOLLOY L.](#) [NESS A.](#) [RING S.](#) [SMITH GD.](#)

Source:      [INT J EPIDEMIOL](#) 42 (1): 111-127 FEB 2013

Addresses:    [Univ Bristol, Sch Social & Community Med, Bristol BS8 2BN, Avon, England.](#)  
[Univ Bristol, Sch Social & Community Med, Ctr Child & Adolescent Hlth, Bristol BS8 2BN, Avon, England.](#)  
[Univ Bristol, Sch Social & Community Med, MRC, Ctr Causal Anal Translat Epidemiol, Bristol BS8 2BN, Avon, England.](#)  
[Univ Bristol, Sch Oral & Dent Sci, Bristol BS8 2BN, Avon, England.](#)

Field:      [SOCIAL SCIENCES, GENERAL](#)

2    Citations: 116    HOT PAPER    WEB OF SCIENCE

Title:      ANTIMICROBIAL-RESISTANT PATHOGENS ASSOCIATED WITH HEALTHCARE-ASSOCIATED INFECTIONS: SUMMARY OF DATA REPORTED TO THE NATIONAL HEALTHCARE SAFETY NETWORK AT THE CENTERS FOR DISEASE CONTROL AND PREVENTION, 2009-2010

Authors:    [SIEVERT DM.](#) [RICES P.](#) [EDWARDS JR.](#) [SCHNEIDER A.](#) [PATEL T.](#) [SRINIVASAN A.](#) [KALLEN A.](#) [LIMBAGO B.](#) [FRIDKIN S.](#)

Source:      [INFECT CONTROL HOSP EPIDEMIOL](#) 34 (1): 1-14 JAN 2013

Addresses:    [Ctr Dis Control & Prevent, Div Healthcare Qual Promot, Natl Ctr Emerging & Zoonot Infect Dis, Atlanta, GA USA.](#)

Field:      [SOCIAL SCIENCES, GENERAL](#)

3    Citations: 88    HOT PAPER    RESEARCH FRONT    WEB OF SCIENCE

Title:      INCREASING DROUGHT UNDER GLOBAL WARMING IN OBSERVATIONS AND MODELS

Authors:    [DAI AG.](#)

Source:      [NAT CLIM CHANGE](#) 3 (1): 52-58 JAN 2013

Addresses:    [SUNY Albany, Dept Atmospher & Environm Sci, Albany, NY 12222 USA.](#)  
[Natl Ctr Atmospher Res, Boulder, CO 80507 USA.](#)

Field:      [SOCIAL SCIENCES, GENERAL](#)

4    Citations: 87    HOT PAPER    WEB OF SCIENCE

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# 追踪生物与生物化学学科前沿——热点论文

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HOT PAPERS IN BIOLOGY & BIOCHEMISTRY

Sorted by: Citations SORT AGAIN

1 - 20 (of 142) Page 1 of 8

1 Citations: 362 [Full](#) [HOT PAPER](#) [WEB OF SCIENCE](#)

Title: THE PROTEOMICS IDENTIFICATIONS (PRIDE) DATABASE AND ASSOCIATED TOOLS: STATUS IN 2013

Authors: [VIZCAINO JA](#), [COTE RG](#), [CSORDAS A](#), [DIANES JA](#), [FABREGAT A](#), [FOSTER JM](#), [GRISS J](#), [ALPI E](#), [BIRIM M](#), [CONTELL J](#), [O'KELLY G](#), [SCHOENBEGGER A](#), [OVELLEIRO D](#), [PEREZ-RIVEROL Y](#), [REISINGER F](#), [ELIOS D](#), [WANG R](#), [HEINTZHOFF H](#)

Source: [NUCL ACID RES](#) 41 (D1): D1063-D1069 JAN 2013

Addresses: European Bioinformat Inst, EMBL Outstat, Cambridge, [England](#).  
Ctr Genet Engn & Biotechnol, Dept Prote, Havana, [Cuba](#).  
[Austrian Acad Sci](#), CeMM Res Ctr Mol Med, A-1090 Vienna, [Austria](#).

Field: [BIOLOGY & BIOCHEMISTRY](#)

2 Citations: 337 [Full](#) [HOT PAPER](#) [RESEARCH FRONT](#) [WEB OF SCIENCE](#)

Title: EFFICIENT GENOME EDITING IN ZEBRAFISH USING A CRISPR-CAS SYSTEM

Authors: [HWANG WY](#), [FIL YE](#), [REYON D](#), [WAJDER MJ](#), [TSAI SQ](#), [SANDER JD](#), [PETERSON RT](#), [YEH JRJ](#), [JOUNG JK](#)

Source: [NAT BIOTECHNOL](#) 31 (3): 227-229 MAR 2013

Addresses: Massachusetts Gen Hosp, Cardiovasc Res Ctr, Charlestown, MA USA.  
Massachusetts Gen Hosp, Mol Pathol Unit, Ctr Canc Res, Charlestown, MA 02129 USA.  
Massachusetts Gen Hosp, Ctr Computat & Integrat Biol, Charlestown, MA USA.  
[Harvard Univ](#), Sch Med, Dept Pathol, Boston, MA 02115 USA.  
[Harvard Univ](#), Sch Med, Program Biol & Biomed Sci, Boston, MA USA.  
[Harvard Univ](#), Sch Med, Dept Med, Boston, MA USA.  
[Broad Inst](#), Cambridge, MA USA.

Field: [BIOLOGY & BIOCHEMISTRY](#)

3 Citations: 326 [Full](#) [HOT PAPER](#) [WEB OF SCIENCE](#)

Title: STRING V9.1: PROTEIN-PROTEIN INTERACTION NETWORKS, WITH INCREASED COVERAGE AND INTEGRATION

Authors: [FRANCESCHINI A](#), [SZKALARCZYK D](#), [FRANKILD S](#), [KINN R](#), [SIMONOVIC M](#), [ROTH A](#), [LIN TY](#), [MINGUEZ P](#), [DORK P](#), [VON MERING C](#), [TRNSEN LT](#)

Source: [NUCL ACID RES](#) 41 (D1): D808-D815 JAN 2013

## 追踪分子生物学与遗传学学科前沿——热点论文

利用ESI检索到分子生物学与遗传学学科有77篇进入热点论文 (Hot Papers)

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HOT PAPERS IN MOLECULAR BIOLOGY & GENETICS

Sorted by: Citations SORT AGAIN

1 - 20 (of 77) Page 1 of 4

1 Citations: 524 [Full](#) HOT PAPER [Full](#) [RESEARCH FRONT](#) [HOT PAPER](#)

**Title:** MEGA6: MOLECULAR EVOLUTIONARY GENETICS ANALYSIS VERSION 6.0

**Authors:** TAMURA K., STECHER G., PETERSON D., FILIPSKI A., KUMAR S.

**Source:** MOL. BIOL. EVOL. 30 (12): 2725-2729 DEC 2013

**Addresses:** Tokyo Metropolitan Univ. Res Ctr Genom & Bioinformat, Hachioji, Tokyo, Japan.  
Tokyo Metropolitan Univ. Dept Biol Sci, Hachioji, Tokyo, Japan.  
Arizona State Univ. Biodesign Inst, Ctr Evolutionary Med & Informat, Tempe, AZ 85287 USA.  
Arizona State Univ. Sch Life Sci, Tempe, AZ 85287 USA.  
King Abdulaziz Univ. Ctr Excellence Genom Med Res, Jeddah 21413, Saudi Arabia.

**Field:** MOLECULAR BIOLOGY & GENETICS

2 Citations: 423 [Full](#) HOT PAPER [Full](#) [RESEARCH FRONT](#) [HOT PAPER](#)

**Title:** MAFFT MULTIPLE SEQUENCE ALIGNMENT SOFTWARE VERSION 7: IMPROVEMENTS IN PERFORMANCE AND USABILITY

**Authors:** KATO H., STANDLEY DM

**Source:** MOL. BIOL. EVOL. 30 (4): 772-780 APR 2013

**Addresses:** Osaka Univ. Immunol Frontier Res Ctr, Suita, Osaka, Japan.  
Natl Inst Adv Ind Sci & Technol, Computat Biol Res Ctr, Tokyo, Japan.

**Field:** MOLECULAR BIOLOGY & GENETICS

3 Citations: 329 [Full](#) HOT PAPER [Full](#) [RESEARCH FRONT](#) [HOT PAPER](#)

**Title:** ONE-STEP GENERATION OF MICE CARRYING MUTATIONS IN MULTIPLE GENES BY CRISPR/CAS-MEDIATED GENOME ENGINEERING

**Authors:** WANG HY., YANG H., SHIVALILA CS, DAMLATY MN, CHENG AN, ZHANG P., JAENISCH R.

**Source:** CELL 153 (4): 910-918 MAY 9 2013

**Addresses:** Whitehead Inst Biomed Res, Cambridge, MA 02142 USA.  
MIT, Dept Biol, Cambridge, MA 02139 USA.  
MIT, Computat & Syst Biol Program, Cambridge, MA 02139 USA.  
MIT, McGovern Inst Brain Res, Dept Brain & Cognit Sci, Dept Biol Engrg, Cambridge, MA 02139 USA.

# 追踪微生物学科前沿——热点论文

利用ESI检索到微生物学科有39篇进入热点论文 (Hot Papers)

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HOT PAPERS IN MICROBIOLOGY

Sorted by: Citations SORT AGAIN

1 - 20 (of 39) Page 1 of 2

1 Citations: 122 [Go](#) HOT PAPER [Go](#) REF OF SOURCE

Title: THE GUT MICROBIOTA - MASTERS OF HOST DEVELOPMENT AND PHYSIOLOGY

Authors: SOMNER P; [BACKHED P](#)

Source: [NAT REV MICROBIOL](#) 11 (4): 227-238 APR 2013

Addresses: [Univ Gothenburg](#), Wallenberg Lab Cardiovasc & Metab Res, Sahlgrenska Univ Hosp, Dept Mol & Clin Med, SE-41345 Gothenburg, [Sweden](#).  
[Univ Gothenburg](#), Sahlgrenska Ctr Cardiovasc & Metab Res, Dept Mol & Clin Med, SE-41345 Gothenburg, [Sweden](#).  
[Univ Copenhagen](#), Novo Nordisk Fdn Ctr Basic Metab Res, Sect Metab Receptol & Enteroendocrinol, Fac Hlth Sci, DK-2200 Copenhagen, [Denmark](#).

Field: [MICROBIOLOGY](#)

2 Citations: 113 [Go](#) HOT PAPER [Go](#) RESEARCH FRONT REF OF SOURCE

Title: INSIGHTS INTO THE PHYLOGENY AND CODING POTENTIAL OF MICROBIAL DARK MATTER

Authors: RINKO C; SCHWIENKE P; SCZYRBA A; [IVANOVA NN](#); ANDERSON IJ; [CHENG JF](#); [DARLINO A](#); MALFATTI S; SWAN BK; GIES EA; DODSWORTH JA; HEDLIND BP; TSIAMIS G; STEVERT SM; [LIU HT](#); [EISEN JA](#); [HALLAM SJ](#); [KYRPIDAKI NC](#); [STEPANAUOSKAS R](#); [RUBIN RN](#); [HUGHENHULTZ P](#); WOYKE T

Source: [NATURE](#) 499 (7459): 431-437 JUL 25 2013

Addresses: DOE Joint Genome Inst, Walnut Creek, CA 94598 USA.  
[Univ Bielefeld](#), Ctr Biotechnol, D-33602 Bielefeld, Germany.  
[Univ Calif Davis](#), Dept Evolut & Ecol, Davis, CA 95616 USA.  
[Univ Technol Sydney](#), Inst I3, Ultimo, NSW 2007, [Australia](#).  
Bigelow Lab Ocean Sci, East Boothbay, ME 04544 USA.  
[Univ British Columbia](#), Dept Microbiol & Immunol, Vancouver, BC V6T 1Z3, [Canada](#).  
[Univ British Columbia](#), Grad Program Bioinformat, Vancouver, BC V6T 1Z3, [Canada](#).  
Univ Nevada, Sch Life Sci, Las Vegas, NV 89154 USA.  
[Univ Patras](#), Dept Environm & Nat Resources Management, Agrinion 30100, [Greece](#).  
[Woods Hole Oceanogr Inst](#), Dept Biol, Woods Hole, MA 02543 USA.  
Univ Illinois, Dept Civil & Environm Engrg, Urbana, IL 61802 USA.  
[Univ Queensland](#), Sch Chem & Mol Biosci, Australian Ctr Ecogenom, St Lucia, Qld 4072, [Australia](#).  
[Univ Queensland](#), Inst Mol Biosci, St Lucia, Qld 4072, [Australia](#).

Field: [MICROBIOLOGY](#)

3 Citations: 109 [Go](#) HOT PAPER [Go](#) RESEARCH FRONT REF OF SOURCE

Title: POST-TREATMENT HIV-1 CONTROLLERS WITH A LONG-TERM VIROLOGICAL REMISSION AFTER THE INTERRUPTION OF EARLY INITIATED ANTIRETROVIRAL THERAPY ANRS VISCONTI STUDY

# 追踪免疫学学科前沿——热点论文

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## HOT PAPERS IN IMMUNOLOGY

Sorted by: Citations SORTING

1 - 20 (of 47)

Page 1 of 3

1 Citations: 256 [Go](#)

[HOT PAPER](#) [RESEARCH FRONT](#) [WEB OF SCIENCE](#)

**Title:** [INNATE LYMPHOID CELLS - A PROPOSAL FOR UNIFORM NOMENCLATURE](#)

**Authors:** [SPITS H.](#), [ARTIS D.](#), [COLONNA M.](#), [DIEPENRACH A.](#), [DI SANTO JP.](#), [EBERL G.](#), [HOYASU S.](#), [LOCKSLEY RM.](#), [MCKENZIE ANI.](#), [MEDIUS RE.](#), [POMRIE F.](#), [VIVIER E.](#)

**Source:** [NAT REV IMMUNOL](#), 13 (2): 145-149 FEB 2013

**Addresses:** [Univ Amsterdam](#), Acad Med Ctr, Tytgat Inst Liver & Intestinal Res, NL-1105 BK Amsterdam, [Netherlands](#).  
[Univ Penna](#), Dept Microbiol, Perelman Sch Med, Philadelphia, PA 19104 USA.  
[Univ Penna](#), Inst Immunol, Perelman Sch Med, Philadelphia, PA 19104 USA.  
[Washington Univ](#), Sch Med, Dept Pathol & Immunol, St Louis, MO 63110 USA.  
[Univ Freiburg](#), Inst Med Microbiol & Hyg, D-79104 Freiburg, Germany.  
[Inst Pasteur](#), Innate Immun Unit, F-75724 Paris, [France](#).  
[Inst Pasteur](#), Dev Lymphoid Tissues Unit, F-75724 Paris, [France](#).  
[CREST](#), Dept Microbiol & Immunol, Chiyoda Ku, Tokyo 1020075, [Japan](#).  
[RIKEN](#), Res Ctr Allergy & Immunol, Lab Innate Cell Syst, Yokohama, Kanagawa 2300045, [Japan](#).  
[Univ Calif San Francisco](#), Howard Hughes Med Inst, San Francisco, CA 94143 USA.  
[MRC](#), Mol Biol Lab, Cambridge CB2 0QH, [England](#).  
[Vrije Univ Amsterdam](#), Med Ctr, Dept Mol Cell Biol & Immunol, NL-1007 MB Amsterdam, [Netherlands](#).  
[Univ Oxford](#), John Radcliffe Hosp, Nuffield Dept Clin Med, Translat Gastroenterol Unit, Oxford OX3 9DU, [England](#).  
[INSERM](#), U1104, Ctr Immunol Marseille Luminy, F-13009 Marseille, [France](#).  
[CNRS](#), UMR7280, F-13288 Marseille, [France](#).

**Field:** [IMMUNOLOGY](#)

2 Citations: 185 [Go](#)

[HOT PAPER](#) [WEB OF SCIENCE](#)

**Title:** [MACROPHAGE BIOLOGY IN DEVELOPMENT, HOMEOSTASIS AND DISEASE](#)

**Authors:** [WYNN TA.](#), [CHAWLA A.](#), [POLLARD TD.](#)

**Source:** [NATURE](#), 496 (7446): 445-455 APR 25 2013

**Addresses:** [NIAID](#), Immunopathogenesis Sect, Program Tissue Immun & Repair, NIH, Gaithersburg, MD 20877 USA.  
[NIAID](#), Parasit Dis Lab, NIH, Gaithersburg, MD 20877 USA.  
[Univ Calif San Francisco](#), Dept Physiol & Med, Cardiovasc Res Inst, San Francisco, CA 94158 USA.  
[Univ Edinburgh](#), Queens Med Res Inst, Med Res Council Ctr Reprod Hlth, Edinburgh EH16 4TJ, [Scotland](#).  
[Albert Einstein Coll Med](#), Dept Dev & Mol Biol, Ctr Study Reprod Biol & Womens Hlth, New York, NY 10461 USA.

**Field:** [IMMUNOLOGY](#)

# 基金案例：追踪社会科学学科前沿——热点论文

利用ESI检索到社会科学有**134篇**进入热点论文（Hot Papers）

The screenshot displays four search results from a database, each with a 'HOT PAPER' button and a 'WEB OF SCIENCE' button. Annotations are overlaid on the image:

- 热点论文** (Hot Paper): An arrow points to the 'HOT PAPER' button of the first article.
- 研究前沿** (Research Frontier): An arrow points to the 'RESEARCH FRONT' button of the second article.
- 识别社交网络影响力和易感成员** (Identify social network influence and susceptible members): An arrow points to the title of the second article, 'IDENTIFYING INFLUENTIAL AND SUSCEPTIBLE MEMBERS OF SOCIAL NETWORKS'.
- 《科学》** (Science): An arrow points to the source of the second article, 'SCIENCE 337 (6092): 337-341 JUL 20 2012'.
- 链接到Web of Science** (Link to Web of Science): An arrow points to the 'WEB OF SCIENCE' button of the second article.

**Article 4:** Citations: 60. Title: ANTIMICROBIAL-RESISTANT PATHOGENS ASSOCIATED WITH HEALTHCARE-ASSOCIATED INFECTIONS: SUMMARY OF DATA REPORTED TO THE NATIONAL HEALTHCARE SAFETY NETWORK AT THE CENTERS FOR DISEASE CONTROL AND PREVENTION, 2009-2010. Authors: SIEVERT DM, RICKS P, EDWARDS JR, SCHNEIDER A, PATEL J, SRINIVASAN A, KALLEN A, LIMBAGO B, FRIDKIN S. Source: [INFECT CONTROL HOSP EPIDEMIOL](#) 34 (1): 1-14 JAN 2013. Addresses: Ctr Dis Control & Prevent, Div Healthcare Qual Promot, Natl Ctr Emerg & Zoonot Infect Dis, Atlanta, GA USA. Field: [SOCIAL SCIENCES, GENERAL](#). Buttons: HOT PAPER, WEB OF SCIENCE.

**Article 5:** Citations: 57. Title: IDENTIFYING INFLUENTIAL AND SUSCEPTIBLE MEMBERS OF SOCIAL NETWORKS. Authors: ARAL S, WALKER D. Source: [SCIENCE](#) 337 (6092): 337-341 JUL 20 2012. Addresses: NYU, Stern Sch Business, New York, NY 10012 USA. Field: [SOCIAL SCIENCES, GENERAL](#). Buttons: HOT PAPER, RESEARCH FRONT, WEB OF SCIENCE.

**Article 6:** Citations: 53. Title: COHORT PROFILE: THE AVON LONGITUDINAL STUDY OF PARENTS AND CHILDREN: ALSPAC MOTHERS COHORT. Authors: FRASER A, MACDONALD-WALLIS C, TILLING K, BOYD A, GOLDING J, SMITH GD, HENDERSON J, MACLEOD J, MOLLOY L, NESS A, RING S, NELSON SM, LAWLOR DA. Source: [INT J EPIDEMIOL](#) 42 (1): 97-110 FEB 2013. Addresses: Univ Bristol, Ctr Causal Anal Translat Epidemiol, MRC, Bristol BS8 2BN, Avon, England; Univ Bristol, Sch Social & Community Med, Bristol BS8 2BN, Avon, England; Univ Bristol, Sch Oral & Dent Sci, Bristol BS8 2BN, Avon, England; Univ Glasgow, Sch Med, Glasgow G12 8QQ, Lanark, Scotland. Field: [SOCIAL SCIENCES, GENERAL](#). Buttons: HOT PAPER, RESEARCH FRONT, WEB OF SCIENCE.

**Article 7:** Citations: 52. Title: INCREASING DROUGHT UNDER GLOBAL WARMING IN OBSERVATIONS AND MODELS. Authors: DAI AG. Source: [NAT CLIM CHANGE](#) 3 (1): 52-58 JAN 2013. Addresses: SUNY Albany, Dept Atmospher & Environm Sci, Albany, NY 12222 USA; Natl Ctr Atmospher Res, Boulder, CO 80307 USA. Buttons: HOT PAPER, RESEARCH FRONT, WEB OF SCIENCE.

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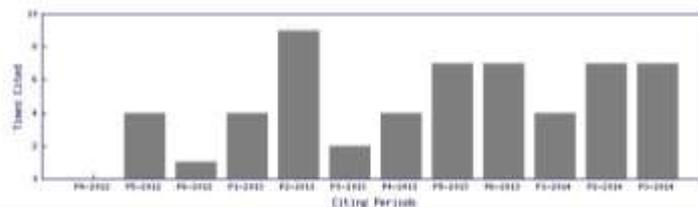


## HOT PAPERS

Title: IDENTIFYING INFLUENTIAL AND SUSCEPTIBLE MEMBERS OF SOCIAL NETWORKS

Source: SCIENCE 337 (6092): 337-341 JUL 20 2012

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RESEARCH FRONT

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1 - 1 (of 1) [Navigation icons] Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1 [Full]	ONLINE SOCIAL NETWORK EXPERIMENT; OBSERVATIONAL SOCIAL NETWORK; CREATING SOCIAL CONTAGION; SOCIAL NETWORKS; HEALTH BEHAVIOR	5	360	72.00	2011.0

1 - 1 (of 1) [Navigation icons] Page 1 of 1

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CORE PAPERS IN ONLINE SOCIAL NETWORK EXPERIMENT; OBSERVATIONAL SOCIAL NETWORK; CREATING SOCIAL CONTAGION; SOCIAL NETWORKS; HEALTH BEHAVIOR

Sorted by: Citations [SORT AGAIN]

1 - 3 (of 3) [Navigation icons] Page 1 of 1

1 Citations: 372 [Full]	THE SPREAD OF BEHAVIOR IN AN ONLINE SOCIAL NETWORK ENVIRONMENT	CHEN, Y.	SCIENCE EIT 18(26): 1139-1177 SEP 2 2010	MIT, Alfred F. Sloan Sch. Management, Cambridge, MA 02142 USA	SOCIAL SCIENCES, GENERAL
2 Citations: 17 [Full]	IDENTIFYING INFLUENTIAL AND DISCERNIBLE MEMBERS OF SOCIAL NETWORKS	WANG, J.; WALKER, J.	SCIENCE EIT 18(26): 1177-1241 [E] 20 2010	NYU, Stern Sch. Business, New York, NY 10011 USA	SOCIAL SCIENCES, GENERAL
3 Citations: 11 [Full]	ISOMORPHY AND CONTAGION ARE CONSERVATIVELY COUPLED IN OBSERVATIONAL SOCIAL NETWORK STUDIES	DALVIJI, CH.; THOMAS, AC	SOCIAL NETWORKS WJ 1(2): 211-224 MAY 2011		

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跨SOCIAL SCIENCES, GENERAL、ECONOMICS & BUSINESS等两个研究领域

# 追踪社会科学学科前沿——热点论文

点击链接到Web of Science图标了解该篇热点论文的详细情况

The screenshot shows the Web of Science interface for the article "Identifying Influential and Susceptible Members of Social Networks" by Aral, S. and Walker, D. The page includes the journal title "SCIENCE", volume and issue information, and a summary. On the right side, there is a sidebar with citation statistics and a "Bibliography" section. An arrow points from the text "那些学者引用了该论文?" to the "68 被引频次" (68 Citations) link in the sidebar.

**Identifying Influential and Susceptible Members of Social Networks**

作者: Aral, S (Aral, Siman)<sup>[1]</sup>, Walker, D (Walker, Dylan)<sup>[1]</sup>

SCIENCE  
卷: 337 期: 6092 页: 337-341  
DOI: 10.1126/science.1215842  
出版年: JUL 20 2012  
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**摘要**  
Identifying social influence in networks is critical to understanding how behaviors spread. We present a method that uses in vivo randomized experimentation to identify influence and susceptibility in networks while avoiding the biases inherent in traditional estimates of social contagion. Estimation in a representative sample of 1.3 million Facebook users showed that younger users are more susceptible to influence than older users, men are more influential than women, women influence men more than they influence other women, and married individuals are the least susceptible to influence in the decision to adopt the product offered. Analysis of influence and susceptibility together with network structure revealed that influential individuals are less susceptible to influence than noninfluential individuals and that they cluster in the network while susceptible individuals do not, which suggests that influential people with influential friends may be instrumental in the spread of this product in the network.

**关键词**  
KeyWords Plus: CONTAGION; IDENTIFICATION; DIVERSITY; BEHAVIOR; SPREAD

**作者信息**  
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**基金资助致谢**

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# 追踪社会科学学科前沿——热点论文

The screenshot displays the Web of Science search results page for the article "Identifying Influential and Susceptible Members of Social Networks". The interface includes a top navigation bar with logos for Web of Science, InCites, Journal Citation Reports, Essential Science Indicators, and EndNote. The main content area shows a list of search results, with the top result being the target article. The article details include the title, authors (Long, Cheng, Wang, Raymond Chi-Wing), journal name (INFORMATION SYSTEMS), volume (46), pages (1-23), and publication date (DEC 2014). There are buttons for "出版商处的全文" and "查看摘要".

On the right side of the search results, there are links for "分析检索结果" and "创建引文报告". Below these links, the citation count is shown as "被引频次: 0 (来自 Web of Science 的统计数据)".

At the bottom of the page, there is a "结果分析" (Result Analysis) section. It includes a table showing the distribution of citations across different funding sources. The table is titled "中国自然科学基金" (China National Natural Science Foundation) and lists various funding programs with their respective citation counts and percentages.

基金名称	记录数	占比 (%)	有效期
NATIONAL NATURAL SCIENCE FOUNDATION OF CHINA	31	16.87%	2000-
NATIONAL BASIC RESEARCH PROGRAM OF CHINA (973 PROGRAM)	4	2.01%	2000-
NATIONAL SCIENCE FOUNDATION	2	0.98%	2000-
NATIONAL HIGH TECH R D PROGRAM OF CHINA (863 PROGRAM)	2	0.98%	2000-
APPROPRIATE SCIENCE RESEARCH	2	0.98%	2000-

Arrows from the text annotations point to the "分析检索结果" link and the "中国自然科学基金" table.

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了该论文

中国自然科学基金  
973、863项目

# 追踪社会科学学科前沿——热点论文

The screenshot shows a Web of Science article page. The title is "Temporal scaling in information propagation". The authors are listed as Huang, JM (Huang, Junming), Li, C (Li, Chao), Wang, WQ (Wang, Wen-Qiang), Shen, HW (Shen, Hua-Wei), Li, GJ (Li, Guojie), and Cheng, XQ (Cheng, Xue-Qi). The article is from SCIENTIFIC REPORTS, volume 4, document 5334, DOI: 10.1038/srep05334, published in July 2014. The abstract discusses the study of information propagation dynamics and the discovery of a temporal scaling law. The keywords are SOCIAL NETWORKS, PROBABILITIES, DIFFUSION, ADOPTION. The authors' affiliations are listed as the Chinese Acad Sci, Inst Comp Technol, Beijing, Peoples R China, and the Univ Elect Sci & Technol China, Sich Comp Sci & Engr, Web Sci Ctr, Chengdu 610054, Sichuan, Peoples R China. The funding sources are listed in a table below.

**在信息传播的时空尺度**

**中国自然科学基金、973、863项目  
资助论文引用了该论文**

基金资助机构	账号
National Basic Research Program of China (973 Program)	2014CB319401
National High-tech R&D Program of China (863 Program)	2014AA015103
National Natural Science Foundation of China	61232010 61202215 61272536



# 追踪社会科学学科前沿——热点论文

<http://isisn.nsf.gov.cn/egrantindex/funcindex/prjsearch>

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\*项目主题词: 社交网络

批准年度: 2014

验证码: 3wp3

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# 追踪社会科学学科前沿——热点论文

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项目编号	申请代码	项目名称	项目负责人	依托单位	批准金额	项目起止年月
61375054	F030502	异构环境下基于社交网络的大规模本体学习模型研究	郑海清	清华大学	79	2014-01至2017-12
61370220	F020705	全媒体社交网络下的数字媒体内容安全与版权保护	张忠勇	河南科技大学	78	2014-01至2017-12
61303246	F020705	基于信任心的社交网络访问控制方法研究	张静君	中国科学院软件研究所	23	2014-01至2016-12
61300014	F020304	基于系统层次结构的大图并行处理框架研究	张群	北方邮电大学	26	2014-01至2016-12
61303163	F020512	海量时间的网络动态社交网络影响力最大化问题研究	董建	中国科学院软件研究所	22	2014-01至2016-12
61300103	F020506	位置相关任务任务的群组构建方法研究	孙志勇	福州大学	27	2014-01至2016-12
61374170	F030203	双层融合社交网络的相互作用和共演化机制:基于时间序列和神经网络的方法	许小可	大连民族学院	78	2014-01至2017-12
71301088	G0112	双层融合在社交网络传播:演化与信息传播模型研究	薛长明	山东财经大学	19	2014-01至2016-12
61373021	H2606	初中生社交网络使用强度对其心理健康影响的队列研究	吴秀敏	香港中文大学深圳研究院	70	2014-01至2017-12
61302479	H2609	艾滋病毒阳性男男性接触人群心理健康及高危行为研究	匡吉刚	香港中文大学深圳研究院	23	2014-01至2016-12

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71471157	G011201	社交学习网络环境下的创新能力理论与应用研究	赵建典	香港城市大学深圳研究院	62	2015-01至2018-12
11401602	A010201	社交网络组织结构与信息传播功能的群表示研究	张占利	中央财经大学	22	2015-01至2017-12
71402157	G021102	心理健康信息系统的分析、建模与设计	张清刚	香港城市大学深圳研究院	23	2015-01至2017-12
81402174	F020502	融合社交语义环境的网络图鲁棒关键技术研究	张静	华东理工大学	24	2015-01至2017-12
61472283	F020513	基于数字驱动的社群智能关键技术研究	张大强	西安大学	85	2015-01至2018-12
61462079	F020304	社交网络环境下基于协同过滤的上下文感知推荐系统研究	于炯	新疆大学	47	2015-01至2018-12
61401015	F010201	社交网络用户行为分析及情感演化趋势预测方法研究	胡菲	北京交通大学	24	2015-01至2017-12
71401130	G011203	大规模动态社交网络社区检测算法研究	王琦	西安电子科技大学	22	2015-01至2017-12
61402383	F020204	大数据环境下面向社交网络的图区聚查询研究	王欣	西南交通大学	25	2015-01至2017-12
71471156	G011201	网络用户隐私担忧与主动性泄露隐私信息之悖论: 理论探索 and 基于社交网络的实证研究	王博康	香港城市大学深圳研究院	62	2015-01至2018-12

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# 国家社会科学基金社交网络课题

项目批准号	项目类别	学科分类	项目名称	立项时间	项目负责人	专业职务
14BSH082	一般项目	社会学	大学生社交网络的不当使用及其心理需要缺陷机制	2014-06-15	刘翔平	正高级
14CTQ031	青年项目	图书馆、情	移动社交网络对网络舆情的影响及治理研究	2014-06-15	丁菊玲	中级
14BXW043	一般项目	新闻学与传	基于社交网络的青年群体日常社会—文化实践研究	2014-06-15	朱丽丽	副高级
14BTQ033	一般项目	图书馆、情	在线社交网络中基于用户的知识组织模式研究	2014-06-15	章成志	副高级
14CTY003	青年项目	体育学	以移动社交网络为载体的体育传播创新研究	2014-06-15	刘翔	中级
13CXW034	青年项目	新闻学	基于移动社交网络的青年群体“微生活”消费模式	2013-06-10	于婷婷	中级
13CXW025	青年项目	新闻学	社交网络中传播主体行为的演变和规范研究	2013-06-10	张华	副高级
13CXW018	青年项目	新闻学	移动社交网络的自我呈现与人际传播研究	2013-06-10	黄佩	副高级
12BTQ054	一般项目	图书馆、情	科研社交网络用户信息交流机制研究	2012-05-14	张素芳	副高级
12BXW041	一般项目	新闻学与传	社交网络信息扩散机理与舆论引导机制研究	2012-05-14	廖玗	正高级
11BXW042	一般项目	新闻学与传	社交网络中的隐私侵权问题研究	2011-07-01	徐敬宏	副高级

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**热点论文**

**研究前沿**

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**学科研究前沿**

3 Citations: 107  
Title: SOLAR CELL EFFICIENCY TABLES (VERSION 40)  
Authors: GREEN MA; EMERY K; HISHIKAWA Y; WARTA W; DUNLOP ED  
Source: [PROG PHOTOVOLTAICS](#) 20 (5): 606-614 SP. ISS. SI AUG 2012  
Addresses: Univ New S Wales, ARC Photovolta Ctr Excellence, Sydney, NSW 2052, Australia.  
Natl Renewable Energy Lab, Golden, CO 80401 USA.  
Natl Inst Adv Ind Sci & Technol, Res Ctr Photovolta RCPV, Tsukuba, Ibaraki 3058568, Japan.  
Fraunhofer Inst Solar Energy Syst, Dept Solar Cells Mat & Technol, D-79110 Freiburg, Germany.  
Commis European Communities, Joint Res Ctr, Renewable Energy Unk, Inst Energy, IT-20127 Ispra, VA, Italy  
Field: [ENGINEERING](#)

4 Citations: 102  
Title: THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY USING AN EARTH-ABUNDANT CU<sub>2</sub>ZNSNS<sub>4</sub> ABSORBER  
Authors: SHIN B; GUNAWAN O; ZHU Y; BOJARCZUK NA; CHEY SJ; GUHA S  
Source: [PROG PHOTOVOLTAICS](#) 21 (1): 72-76 JAN 2013  
Addresses: IBM CORP, THOMAS J WATSON RES CTR, YORKTOWN HTS, Y 10598.  
Field: [ENGINEERING](#)

5 Citations: 91  
Title: A NOVEL APPROACH TO FILTER DESIGN FOR T-S FUZZY DISCRETE-TIME SYSTEMS WITH TIME-VARYING DELAY  
Authors: SU XJ; SHI P; WU LG; SONG YD  
Source: [IEEE TRANS FUZZY SYST](#) 20 (6): 1114-1129 DEC 2012  
Addresses: Harbin Inst Technol, Harbin 150001, Peoples R China.  
Univ Glamorgan, Dept Comp & Math Sci, Pontypridd CF37 1DL, M Glam, Wales.  
Victoria Univ, Sch Sci & Engrg, Melbourne, Vic 3000, Australia.  
Univ S Australia, Sch Math & Stat, Adelaide, SA 5001, Australia.  
Chongqing Univ, Sch Automat, Chongqing 400044, Peoples R China.  
Field: [ENGINEERING](#)

6 Citations: 84  
Title: OPPORTUNITIES AND CHALLENGES FOR A SUSTAINABLE ENERGY FUTURE  
Authors: CHU S; MAJUMDAR A  
Source: [NATURE](#) 488 (7411): 294-301 2012  
Addresses: US DOE, WASHINGTON, C 20585.

# 基金案例：追踪工程学领域学科前沿——热点论文

更新为**2014年9月11日**

Field: [ENGINEERING](#)

2 Citations: 155

Title: A COMPARISON STUDY OF BASIC DATA-DRIVEN FAULT DIAGNOSIS AND PROCESS MONITORING METHODS ON THE BENCHMARK TENNESSEE EASTMAN PROCESS

Authors: YIN S; DING SX; HAGHANI A; HAO HY; ZHANG P

Source: [J PROCESS CONTROL](#) 22 (9): 1567-1581 OCT 2012

Addresses: Univ Duisburg Essen, Inst Automat Control & Complex Syst, D-47057 Duisburg, Germany.  
Harbin Inst Technol, Inst Intelligent Control & Syst, Harbin 150001, Peoples R China.

Field: [ENGINEERING](#)

3 Citations: 148

Title: THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY USING AN EARTH-ABUNDANT CU<sub>2</sub>ZNSNS<sub>4</sub> ABSORBER

Authors: SHIN B; GUNAWAN O; ZHU Y; BOJARCZUK NA; CHEY SJ; GUHA S

Source: [PROG PHOTOVOLTAICS](#) 21 (1): 72-76 JAN 2013

Addresses: IBM Corp, Thomas J Watson Res Ctr, Yorktown Hts, NY 10598 USA.

Field: [ENGINEERING](#)

4 Citations: 142

Title: OPPORTUNITIES AND CHALLENGES FOR A SUSTAINABLE ENERGY FUTURE

Authors: CHU S; MAJUMDAR A

Source: [NATURE](#) 488 (7411): 294-303 AUG 16 2012

Addresses: US DOE, Washington, DC 20585 USA.

Field: [ENGINEERING](#)

5 Citations: 131

Title: SOLAR CELL EFFICIENCY TABLES (VERSION 40)

Authors: GREEN MA; EMERY K; HISHIKAWA Y; WARTA W; DUNLOP ED

Source: [PROG PHOTOVOLTAICS](#) 20 (5): 606-614 SP. ISS. SI AUG 2012

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学科研究前沿

# 基金案例：追踪工程学领域学科前沿——热点论文

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# 基金案例：薄膜太阳能电池（Film Solar Cell）热点论文

更新为2015年3月5日

HOT PAPERS FOR (FILM SOLAR CELL\*)

Sorted by: Citations | SORT AGAIN

1 - 4 (of 4) | Page 1 of 1

1 Citations: 198  
Title: THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY USING AN EARTH-ABUNDANT CUZNSMS4 ABSORBER  
Authors: SHIN B.; GUNAMAN O.; ZHU Y.; BOJARCZUK NA.; CHEY SJ.; GUHA S.  
Source: PROG PHOTOVOLTAICS 21 (1): 72-76 JAN 2013  
Addresses: IBM Corp, Thomas J Watson Res Ctr, Yorktown Hts, NY 10598 USA.  
Field: ENGINEERING

2 Citations: 59  
Title: DEVICE CHARACTERISTICS OF CZTSSe THIN-FILM SOLAR CELLS WITH 12.6% EFFICIENCY  
Authors: WANG W.; WINKLER MT.; GUNAMAN O.; GOREMEN T.; TODOROV TK.; ZHU Y.; NITZI DB.  
Source: ADV ENERGY MATER 4 (7): - MAY 2014  
Addresses: IBM TJ Watson Res Ctr, Yorktown Hts, NY 10598 USA.  
Field: MATERIALS SCIENCE

3 Citations: 52  
Title: USING A TWO-STEP DEPOSITION TECHNIQUE TO PREPARE PEROVSKITE (CH3NH3PBI3) FOR THIN FILM SOLAR CELLS BASED ON ZRO2 AND TiO2 MESOSTRUCTURES  
Authors: BI DQ.; MOON ST.; HAGGMAN L.; BOSCHLOO G.; YANG L.; JOHANSSON EMJ.; NAZEERUDDIN MK.; GRATZEL M.; HAGFELDT A.  
Source: RSC ADV 3 (41): 18762-18766 2013  
Addresses: Uppsala Univ, Dept Chem Angstrom, Uppsala, Sweden.  
Swiss Fed Inst Technol, Dept Chem & Chem Engn, Lab Photon & Interfaces, Stn 6, CH-1015 Lausanne, Switzerland.  
Field: CHEMISTRY

4 Citations: 28  
Title: HOLE-CONDUCTOR-FREE PEROVSKITE ORGANIC LEAD IODIDE HETEROJUNCTION THIN-FILM SOLAR CELLS: HIGH EFFICIENCY AND JUNCTION PROPERTY  
Authors: SHI JJ.; DONG J.; LV ST.; XU YZ.; ZHU LF.; XIAO JY.; XU X.; WU HL.; LI DM.; LIU YH.; MENG QB.  
Source: APPL PHYS LETT 104 (6): - FEB 10 2014  
Addresses: Chinese Acad Sci, Key Lab Renewable Energy, Beijing Key Lab New Energy Mat & Devices, Inst Phys, Beijing 100190, Peoples R China.

5 Citations: 24  
Title: HOLE-CONDUCTOR-FREE PEROVSKITE ORGANIC LEAD IODIDE HETEROJUNCTION THIN-FILM SOLAR CELLS: HIGH EFFICIENCY AND JUNCTION PROPERTY  
Authors: SHI JJ.; DONG J.; LV ST.; XU YZ.; ZHU LF.; XIAO JY.; XU X.; WU HL.; LI DM.; LIU YH.; MENG QB.  
Source: APPL PHYS LETT 104 (6): - FEB 10 2014  
Addresses: Chinese Acad Sci, Key Lab Renewable Energy, Beijing Key Lab New Energy Mat & Devices, Inst Phys, Beijing 100190, Peoples R China.  
Field: PHYSICS

跨学科

# 薄膜太阳能电池（Film Solar Cell）热点论文

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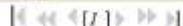
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## HOT PAPERS FOR (FILM SOLAR CELL\*)

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1 - 3 (of 3)



Page 1 of 1

1 Citations: 148

**Title:** THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY USING AN EARTH-ABUNDANT  $\text{Cu}_2\text{ZnSnS}_4$  ABSORBER

**Authors:** SHIN B; GUNAWAN O; ZHU Y; BOJARCZUK NA; CHEY SJ; GUHA S

**Source:** [PROG PHOTOVOLTAICS](#) 21 (1): 72-76 JAN 2013

**Addresses:** IBM Corp, Thomas J Watson Res Ctr, Yorktown Hts, NY 10598 USA.

**Field:** [ENGINEERING](#)

2 Citations: 50

**Title:** HIGH-EFFICIENCY SOLUTION-PROCESSED  $\text{Cu}_2\text{ZnSn(S,SE)}_4$  THIN-FILM SOLAR CELLS PREPARED FROM BINARY AND TERNARY NANOPARTICLES

**Authors:** CAO YY; DENNY MS; CASPAR JV; FARNETH WE; GUO QJ; IONKIN AS; JOHNSON LK; LU MJ; MALAJOVICH I; RADU D; ROSENFELD HD; CHOUDHURY KR; WU W

**Source:** [J AM CHEM SOC](#) 134 (38): 15644-15647 SEP 26 2012

**Addresses:** DuPont Co Inc, Cent Res & Dev, Expt Stn, Wilmington, DE 19880 USA.

**Field:** [CHEMISTRY](#)

3 Citations: 12

**Title:** DEVICE CHARACTERISTICS OF  $\text{CZTSSe}$  THIN-FILM SOLAR CELLS WITH 12.6% EFFICIENCY

**Authors:** WANG W; WINKLER MT; GUNAWAN O; GOKMEN T; TODOROV TK; ZHU Y; MITZI DB

**Source:** [ADV ENERGY MATER](#) 4 (7): - MAY 2014

**Addresses:** IBM TJ Watson Res Ctr, Yorktown Hts, NY 10598 USA.

**Field:** [MATERIALS SCIENCE](#)

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1 Citations: 162  
Title: THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY USING AN EARTH-ABUNDANT CU2ZNSNS4 ABSORBER  
Authors: SHIN B; GUNAWAN O; ZHU Y; DOJARCZUK NA; CHEY SJ; GUHA S  
Source: PROG PHOTOVOLTAICS 21 (1): 72-76 JAN 2013  
Addresses: IBM Corp, Thomas J Watson Res Ctr, Yorktown Hts, NY 10598 USA.  
Field: [ENGINEERING](#)

2 Citations: 23  
Title: DEVICE CHARACTERISTICS OF CZTSSe THIN-FILM SOLAR CELLS WITH 12.6% EFFICIENCY  
Authors: WANG W; WINKLER MT; GUNAWAN O; GOKMEN Y; TOORGOV TK; ZHU Y; MITZI DB  
Source: ADV ENERGY MATER 4 (7): - MAY 2014  
Addresses: IBM TJ Watson Res Ctr, Yorktown Hts, NY 10598 USA.  
Field: [MATERIALS SCIENCE](#)

3 Citations: 14  
Title: ELECTRODEPOSITED CU2ZNSNS4 THIN FILM SOLAR CELL WITH 7% POWER CONVERSION EFFICIENCY  
Authors: GUO L; ZHU Y; GUNAWAN O; GOKMEN Y; DELINE VR; AHMED S; ROMANKIW LT; DELIGIANNI H  
Source: PROG PHOTOVOLTAICS 22 (1): 58-68 JAN 2014  
Addresses: IBM Corp, TJ Watson Res Ctr, Yorktown Hts, NY 10598 USA.  
IBM Corp, Almaden Res Ctr, San Jose, CA 95120 USA.  
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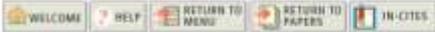
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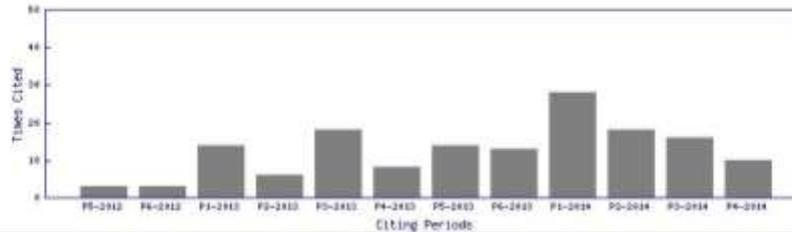


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Title: THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY USING AN EARTH-ABUNDANT CU<sub>2</sub>ZNSNS<sub>4</sub> ABSORBER

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1 Citations: 131

Title: BEYOND 1% EFFICIENCY CHARACTERISTICS OF STATE-OF-THE-ART CUZNSNO<sub>0.85</sub>O<sub>1.85</sub> SOLAR CELLS

Authors: TODOROV TK, TANG J, BAG S, GUNAWAN O, GORKMENTI, ZHU Y, MITZI DE

Source: ADVANCED MATERIALS  
1(1) 34-38 JAN 2011

Address: IBM TJ WATSON RES CTR, YOKESMANS, NY 10598 USA

Field: MATERIALS SCIENCE

2 Citations: 102

Title: THIN FILM SOLAR CELL WITH 4.4% POWER CONVERSION EFFICIENCY LISTO AN EARTH-ABUNDANT CUZNSNO<sub>0.85</sub> ABSORBER

Authors: SHEN B, GUNAWAN O, ZHU Y, BOJARCIK NA, CHEN W, QI HA E

Source: PROG PHOTOVOLTAICS  
21(1) 72-76 JAN 2011

Address: IBM CORP THOMAS J WATSON RES CTR YORKTOWN HTS, NY 10598

Field: PHYSICS

3 Citations: 93

Title: CO-EVAPORATED CUZNSNO<sub>0.85</sub> FILMS AND DEVICES

Authors: REPDIS I, BEALL C, VORA N, DEHART C, KUCIUSKAS D, DEPO J, TO B, MANN J, HSU WC, GOODRICH A, SOLEYE

Source: SOLAR ENERGY MATERIALS SOLAR CELLS  
110: 154-159 JUN 2012

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Citations: 340 [v]	
Title:	HIGH-EFFICIENCY SOLAR CELL WITH RAPID-GROWTH LEGG-PROTECTED ABSORBER
Authors:	THIRYU D., SUTER D., KELLER B.
Source:	<a href="#">ACAP ABSTRACT</a> DOI: 10.1186/1528-7557-2013-2013
Address:	IBM Corp., Thomas J. Watson Res. Ctr., Yorktown Hts., NY 10598 USA.
Field:	<a href="#">NANOSCALE LETTERS</a>
Citations: 290 [v]	
Title:	FABRICATION OF C, N EFFICIENT CU2ZNS SOLAR CELL USING CUBIC NANOCRYSTALS
Authors:	SHI Q., FENG C., TAN X., WANG X., CHEN F., KELLER B., ADZAN A.
Source:	<a href="#">J APPLIED PHYSICS</a> DOI: 10.1063/1.4804788
Address:	Purdue Univ., Col. Engn. Bldg., W. Lafayette, IN 47907 USA. Purdue Univ., Chem. Engn. Bldg., W. Lafayette, IN 47907 USA. Purdue Univ., Sch. Bus. Engn., W. Lafayette, IN 47907 USA. Purdue Univ., Strk. Research Ctr., W. Lafayette, IN 47907 USA.
Field:	<a href="#">OPTICS</a>
Citations: 285 [v]	
Title:	SYNTHESIS OF CU2ZNS NANOCRYSTALS AND ITS USE FOR SOLAR CELL
Authors:	SHI Q., KELLER B., ADZAN A.

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Thin film solar cell with 8.4% power conversion efficiency using an earth-abundant Cu<sub>2</sub>ZnSnS<sub>4</sub> absorber

作者: Shin, B (Shin, Byungha)<sup>[1]</sup>; Gunawan, O (Gunawan, Olo)<sup>[1]</sup>; Zhu, Y (Zhu, Yu)<sup>[1]</sup>; Bojarczuk, NA (Bojarczuk, Nestor A)<sup>[1]</sup>; Chey, SJ (Chey, S Jay)<sup>[1]</sup>; Guha, S (Guha, Supratik)<sup>[1]</sup>

PROGRESS IN PHOTOVOLTAICS  
卷: 21 期: 1 页: 72-76  
DOI: 10.1002/jpp.1174  
出版年: JAN 2013  
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**摘要**  
Using vacuum process, we fabricated Cu<sub>2</sub>ZnSnS<sub>4</sub> solar cells with 8.4% efficiency, a number independently certified by an external, accredited laboratory. This is the highest efficiency reported for pure sulfide Cu<sub>2</sub>ZnSnS<sub>4</sub> prepared by any method. Consistent with literature, the optimal composition is Cu-poor and Zn-rich despite the precipitation of secondary phases (e.g., ZnS). Despite a very thin absorber thickness (similar to 600 nm), a reasonably good short-circuit current was obtained. Time-resolved photoluminescence measurements suggest a minority carrier-diffusion length on the order of several hundreds of nanometers and relatively good collection of photo-carriers across the entire absorber thickness. Copyright (C) 2011 John Wiley & Sons, Ltd.

**关键词**  
作者关键词: Cu<sub>2</sub>ZnSnS<sub>4</sub>; earth-abundant absorber; co-evaporation; photoluminescence  
KeyWords Plus: PHOTOVOLTAICS

**作者信息**  
通讯作者地址: Guha, S (通讯作者)  
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- [1] IBM Corp, Thomas J Watson Res Ctr, Yorktown Hts, NY 10598 USA  
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1. Low cost preparation of Cu<sub>2</sub>ZnSnS<sub>4</sub> and Cu<sub>2</sub>ZnSn(S<sub>x</sub>Se<sub>1-x</sub>)<sub>4</sub> from binary sulfide nanoparticles for solar cell application  
作者: Chen, Guolin; Yuan, Chaochan; Liu, Jiwang, 等  
JOURNAL OF POWER SOURCES 卷: 262 页: 201-208 出版年: SEP 15 2014  
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2. First-Principles Study on Doping Effects of Sodium in Kesterite Cu<sub>2</sub>ZnSnS<sub>4</sub>  
作者: Zhao, Zong-Yan; Zhao, Xiang  
INORGANIC CHEMISTRY 卷: 53 期: 17 页: 9235-9241 出版年: SEP 1 2014  
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3. Structure and optical properties of Cu<sub>2</sub>ZnSnS<sub>4</sub> thin film solar cells prepared by chemical bath deposition  
作者: Guo, Hao; Shen, Honglei; Jiao, Baoliang, 等  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING 卷: 23 特刊 1 页: 459-462 出版年: SEP 2014  
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4. Fabrication of Cu<sub>2</sub>ZnSnS<sub>4</sub> absorber layers with adjustable Zn/Sn and Cu/Zn plus Sn ratios  
作者: Pan, Bin; Wei, Ming; Liu, Wailong, 等  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 卷: 25 期: 8 页: 3344-3352 出版年: AUG 2014  
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5. Synthesis of New Earth-abundant Kesterite Cu<sub>2</sub>MgSnS<sub>4</sub> Nanoparticles by Hot-injection Method  
作者: Wei, Ming; Du, Qingyang; Wang, Rong, 等  
CHEMISTRY LETTERS 卷: 43 期: 7 页: 1149-1151 出版年: JUL 5 2014  
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6. Progress in the Fabrication of Cu<sub>2</sub>ZnSnS<sub>4</sub> Thin Film for Solar Cells  
作者: Fan, Yang; Qin, Honglei; Mi, Baoou, 等  
ACTA CHIMICA SINICA 卷: 72 期: 6 页: 643-652 出版年: JUN 15 2014  
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7. One-Pot Synthesis of Self-Stabilized Aqueous Nanoinks for Cu<sub>2</sub>ZnSn(S<sub>x</sub>Se<sub>1-x</sub>)<sub>4</sub> Solar Cells  
作者: Zhong, Jie; Xia, Zhe; Zhang, Cheng, 等  
CHEMISTRY OF MATERIALS 卷: 26 期: 11 页: 3573-3578 出版年: JUN 10 2014  
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8. Synthesis and Photoelectrochemical Properties of (Cu<sub>2</sub>Sn)<sub>x</sub>(Zn<sub>3</sub>(1-x)S<sub>3</sub>) Nanocrystal Films  
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**摘要**  
A low-cost non-vacuum process for fabrication of Cu<sub>2</sub>ZnSnS<sub>4</sub> (CZTS) and Cu<sub>2</sub>ZnSn(S<sub>x</sub>Se<sub>1-x</sub>)<sub>4</sub> (CZTSSe) films by solvent-free mechanochemical method and doctor blade process is described. First, CuS, ZnS and SnS nanoparticles are synthesized via a facile, solvent-free route, which is low cost and easy to scale-up. Second, the sulfides nanoparticles precursors are deposited in a thin layer by doctor blade technique. Finally, the dry layers are sintered into CZTS/CZTSSe thin films. Different annealing processes are used, and the influences of incorporation of sulfur/selenium on the CZTS/CZTSSe films have been investigated. These structure, morphology and optical properties of CZTS/CZTSSe films are suitable for thin film solar cell fabrication. (C) 2014 Elsevier B.V. All rights reserved.

**关键词**  
作者关键词: CZTS; CZTSSe thin films; Solvent-free synthesis; Annealing  
KeyWords Plus: THIN-FILMS; LAYER; NANOCRYSTALS; ROUTE; SIZE

**作者信息**  
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学科研究前沿

# 基金案例：追踪工程学领域学科前沿——热点论文

**One-Pot Synthesis of Self-Stabilized Aqueous Nanoinks for Cu<sub>2</sub>ZnSn(S,Se)<sub>4</sub> Solar Cells**

作者: Zhong, J (Zhong, Jie)<sup>[1]</sup>; Xia, Z (Xia, Zhe)<sup>[1]</sup>; Zhang, C (Zhang, Cheng)<sup>[1]</sup>; Li, B (Li, Bing)<sup>[1]</sup>; Liu, XS (Liu, Xingsheng)<sup>[1]</sup>; Cheng, YB (Cheng, Yi-Bing)<sup>[1,2]</sup>; Tang, J (Tang, Jiang)<sup>[1]</sup>

CHEMISTRY OF MATERIALS  
卷: 26 期: 11 页: 3573-3578  
DOI: 10.1021/cm501270j  
出版年: JUN 10 2014  
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**摘要**  
Copper zinc tin sulfide/selenide (CZTS/Se) is very promising for photovoltaic application because of their nontoxic, earth-abundant components and excellent optoelectronic properties. Herein, a novel in situ self-stabilization process using water as the only solvent is reported to produce CZTS nanoink. Aqueous processed metal chalcogenide complexes Sn<sub>2</sub>S<sub>6</sub>4- and Sn<sub>2</sub>Se<sub>6</sub>4- were employed as the self-component ligands to in-situ cap the Cu/Zn sulfide nanoparticles, resulting in homogeneous and stable nanoinks. Through rational materials choice and annealing design, carbon, oxygen, and nitrogen contaminations were minimized in the final film. Finally, high quality CZTS/Se film was integrated into a photovoltaic device achieving a preliminary solar conversion efficiency of 5.14%. The innovation of green, stable, scalable, and reliable quality aqueous CZTS nanoinks will further benefit the advancement of high-efficiency, low-cost CZTS solar cells.

**关键词**  
KeyWords Plus: CU2ZNSNS4 THIN FILMS; CHALCOGENIDE SURFACE LIGANDS; 5.1-PERCENT EFFICIENCY; COLLOIDAL NANOCRYSTALS; PRECURSORS; FABRICATION; DEVICE; PHOTOVOLTAICS; ABSORBERS; INK

**作者信息**  
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地址:  
+ [1] Huazhong Univ Sci & Technol, Wuhan Natl Lab Optoelect, Wuhan 430074, Peoples R China.  
+ [2] Monash Univ, Dept Mat Engn, Clayton, Vic 3800, Australia  
电子邮件地址: jiang@mail.hust.edu.cn  
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Zhong, Jie. Sulfurization induced surface constitution and its correlation to the performance of solution-processed Cu<sub>2</sub>ZnSn(S,Se)<sub>4</sub> solar cells. SCIENTIFIC REPORTS, SEP 5 2014.  
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# 基金案例：追踪工程学领域学科前沿——热点论文

**分析那些研究机构引用了该论文**

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对于: Thin film solar cell with 8.4% power conversion efficiency using an earth-abundant Cu<sub>2</sub>ZnSnS<sub>4</sub> absorber ... 更多内容

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8 中国科学引文数据库  
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精炼检索结果

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Web of Science 类别

文献类型

研究方向

作者

团体作者

编者

1. Sn compensation via Sn<sub>2</sub>S<sub>3</sub> binary vapor supply during Cu<sub>2</sub>ZnSnS<sub>4</sub> formation  
作者: Oh, Misul; Kim, Woo Kyung  
JOURNAL OF ALLOYS AND COMPOUNDS 卷: 616 页: 436-441 出版年: DEC 15 2014  
出版商处的全文 查看摘要

2. Secondary crystalline phase identification in Cu<sub>2</sub>ZnSnS<sub>4</sub> thin films: contributions from Raman  
作者: Salome, Pedro M. P.; Ferna  
JOURNAL OF MATERIALS SCIE  
查看摘要

3. Band-gap engineering of Cu properties  
作者: Caballero, R.; Victorov, I.; Si  
ACTA MATERIALIA 卷: 79 页: 1  
出版商处的全文 查看摘要

4. Growth and characterization sulfurization  
作者: Li, Yi; Yuan, Tongfei; Jiang,  
JOURNAL OF ALLOYS AND CO  
出版商处的全文 查看摘要

5. Kesterite Cu<sub>2</sub>ZnSnS<sub>4</sub> solar c  
作者: Yan, Chang; Chen, Jian; Liu  
JOURNAL OF ALLOYS AND CO  
出版商处的全文 查看摘要

6. Sputtered (Zn,Mg)O buffer li  
作者: Hironaka, Daisuke; Matsuo,  
JOURNAL OF APPLI

结果分析

WEB 个记录: Thin film solar cell with 8.4% power conversion efficiency using an earth-abundant Cu<sub>2</sub>ZnSnS<sub>4</sub> absorber

期刊名称	文章数	占比
WORLD JOURNAL OF MICROELECTRONICS	10	5.26%
JAVY NEW S WALE	7	3.71%
UNIVERSITY OF WOLVES	7	3.71%
WORLD JOURNAL	5	2.63%
WORLD JOURNAL	5	2.63%
NATL RESEARCH COUNCIL LAB	5	2.63%
WORLD JOURNAL	5	2.63%

南京航空航天大学  
新南威尔士大学  
加州大学洛杉矶分校

# 基金案例：追踪工程学学科前沿——热点论文



NSFC首页 | 关于ISIS | 常见问题

检索结果

## 2013年太阳能电池 122项获得

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## 国家自然科学基金资助

按:

请输入验证码:

共 13 页 / 122 条记录

	项目批准号	申请代码1	项目名称	项目负责人	依托单位	批准金额	项目起止年月
1	11374168	A040102	染料敏化太阳能电池低聚合物准固态电解质研究	诸跃进	宁波大学	90	2014-01至2017-12
2	91333113	B021101	梯形窄带隙稠环共轭分子的设计、合成、性质及其光伏性能研究	朱晓张	中国科学院化学研究所	91	2014-01至2016-12
3	61377025	F050204	顶部光入射型高效有机光伏器件的基础研究	朱瑞	北京大学	82	2014-01至2017-12
4	61307042	F050204	基于金属纳米网透明电极的表面等离子体共振光光伏电池研究	朱锦锋	厦门大学	28	2014-01至2016-12
5	61306016	F040104	基于一维有序TiO <sub>2</sub> 纳米阵列的全无能耗尽体相异质结量子点太阳能电池的结构构筑和性能研究	周正基	河南大学	25	2014-01至2016-12
6	51303118	E0309	聚合物太阳能电池中电子给受体界面电荷转移态的研究	周祎	苏州大学	25	2014-01至2016-12
7	51303077	E030901	外场诱导液晶小分子取向调控P3HT/PCBM异质结体系的结晶与相分离及其光伏性能	周巍华	南昌大学	25	2014-01至2016-12
8	61325026	F0509	有机光电子功能材料与器件	郑庆东	中国科学院福建物质结构研究所	200	2014-01至2017-12
9	21371092	B010303	染料敏化太阳能电池中卟啉染料的设计与分子工程	郑和根	南京大学	80	2014-01至2017-12
10	51302164	E0207	低串联电阻p-型染料敏化太阳能电池结构设计及载流子传输机制	赵尹	上海大学	25	2014-01至2016-12

(金额单位: 万元)

共 13 页 / 122 条记录

# 基金案例：追踪工程学学科前沿——热点论文



## 2013年薄膜太阳能电池 4项获得

NSFC首页 | 关于ISIS | 常见问题

## 国家自然科学基金资助

### 检索结果

您的位置: [首页](#) -> [项目检索](#) -> [项目综合查询](#) -> 检索结果

按:

\*请输入验证码:

共 1 页 / 4 条记录

	项目批准号	申请代码1	项目名称	项目负责人	依托单位	批准金额	项目起止年月
1	11364025	A040204	CuInGaSe <sub>2</sub> 太阳能电池界面结构、界面态及其钝化	汤富领	兰州理工大学	40	2014-01至2017-12
2	61376011	F040103	金属诱导垂直生长低温Poly-Si <sub>1-x</sub> Ge <sub>x</sub> (0≤x≤0.2)薄膜及其作为太阳能电池材料特性研究	彭尚龙	兰州大学	80	2014-01至2017-12
3	61306081	F040306	氧化物包覆银三角纳米粒子的表面等离子体共振效应在薄膜太阳能电池器件中的应用	李迪	中国科学院长春光学精密机械与物理研究所	27	2014-01至2016-12
4	51302303	E020701	基于CuSe的快速热处理硒化工艺研究	李朝晖	中国科学院深圳先进技术研究院	25	2014-01至2016-12

(金额单位: 万元)

共 1 页 / 4 条记录

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学科研究前沿

# 基金案例：追踪工程学学科前沿——热点论文



## 2014年薄膜太阳能电池 11项获得国家自然科学基金资助

检索结果

您的位置: 首页 -> 项目检索 -> 项目综合查询 -> 检索结果

### 国家自然科学基金资助

按: 项目负责人  项目批准号  递减  排序

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共 2 页 / 11 条

项目批准号	申请代码1	项目名称	项目负责人	依托单位	批准金额	项目起止年月
1 61474009	F040306	superstrate结构铜锌硒硫太阳能电池制备中的关键科学问题研究	钟敏	渤海大学	50	2015-01至2018-12
2 61404154	F040306	高效铜铟镓硒薄膜太阳能电池吸收层的低温生长研究	张耀秋	中国科学院深圳先进技术研究院	26	2015-01至2017-12
3 61404109	F040306	一步溅射法制备的铜锌锡硒薄膜成相机理研究及其电池异质结探索	余洲	西南交通大学	26	2015-01至2017-12
4 61474103	F040306	纳米等离激元与太阳能电池中的非平衡物理过程耦合研究	王德亮	中国科学技术大学	79	2015-01至2018-12
5 21473147	B0306	研究多层薄膜光电转换体系的AFM新方法	毛秉伟	厦门大学	95	2015-01至2018-12
6 11404191	A040106	薄膜钙钛矿太阳能电池中电子传输层与活性层动力学标度行为研究	刘云燕	山东理工大学	30	2015-01至2017-12
7 61404086	F040306	铜锌锡硫硒薄膜的离子束溅射制备及太阳能电池关键科学问题研究	梁广兴	深圳大学	26	2015-01至2017-12
8 61474132	F040102	铜锌锡硫在晶界面的能带结构研究	李文杰	中国科学院深圳先进技术研究院	84	2015-01至2018-12
9 61404074	F040306	表面等离激元增强型纳米微腔结构的薄膜太阳能电池研究	黄茜	南开大学	31	2015-01至2017-12
10 61464005	F040103	ZnO:X透明导电膜的调制掺杂生长与氢化处理的研究	胡跃辉	景德镇陶瓷学院	46	2015-01至2018-12

(金额单位: 万元) 共 2 页 / 11 条

学科研究  
前沿

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项目批准号	申请代码1	项目名称	项目负责人	依托单位	批准金额	项目起止年月
11 51472110	E0209	具有能隙梯度的全无机甲胺铅碘薄膜太阳能电池的能带设计、构筑与性能研究	曹丙强	济南大学	83	2015-01至2018-12

(金额单位: 万元) 共 2 页 / 11 条

# 基金案例：追踪工程学学科前沿——热点论文

## 2014年薄膜太阳能电池 3项获得

### 美国自然科学基金资助

国际基金动态信息

01-SEP-2014 Open preview	Organometal Halide Perovskites: Sequential Vapor Deposition And Device Study Toward Highly Efficient Thin-Film Solar Cells	Fan, Zhaoyang	Texas Tech University	National Science Foundation	330,000	USD
01-SEP-2014 Open preview	EAGER: Unified Photon and Electron Harvesting Method for High Efficiency Thin-film Silicon Solar Cells	Chanda, Debashis	University of Central Florida	National Science Foundation	199,942	USD
01-AUG-2014 Open preview	Enhanced Photon-Electron Conversion in Thin Film Solar Cells by Propagating Surface Plasmons	Lee, Jung-kun	University of Pittsburgh	National Science Foundation	325,235	USD

# 基金案例：追踪工程学学科前沿——热点论文

国际基金动态信息

重点项目：生物细胞纳米材料

全球基金数据库

薄膜太阳能电池

## Priority Programme "New Frontiers in Sensitivity for EPR Spectroscopy: From Biological Cells to Nano Materials"

Opp ID: 153971 | Collaboration or Cooperative Agreement Research Program or Curriculum Development or Provision | Last edited on 16 Jul 2014

Pivot Funding

Full Details

Website [http://www.dfg.de/en/research\\_funding/announcements\\_proposals/info\\_vissenschaft\\_14\\_37/index.html](http://www.dfg.de/en/research_funding/announcements_proposals/info_vissenschaft_14_37/index.html)

Sponsor Deutsche Forschungsgemeinschaft (DFG) / German Research Foundation  
Sponsor ID: SPP 1601

Amount The amount is unspecified. The programme will not cover upgrades in standard instrumentation or investments in large scale facilities. The envisaged start of funding is May 2015.

Requirements New Faculty/New Investigator  
Ph.D./M.D./Other Professional

Citizenship or Residency **Unrestricted**

Activity location Unspecified

**Abstract**  
Electron paramagnetic resonance (EPR) is a spectroscopic technique that allows detection of paramagnetic centres and magnetic nuclei coupled to them on a time scale as short as nanoseconds and with spatial resolution from the atomic up to the millimeter scale. Recent progress in this technique has been mainly driven by specific needs in the research areas of biological and material sciences. The Priority Programme has been bringing these research areas together in a coordinated effort to increase the sensitivity of EPR as an essential spectroscopic technique for biology, chemistry, materials science and physics.

As a major goal, applications such as the investigation of magnetation molecular machines, in cell proteins, protein interactions or enzymatic mechanisms, catalytic processes on single crystalline surfaces or the light-induced degradation of thin film solar cells are addressed by EPR. The intrinsic diversity of the studied systems implies that the envisaged sensitivity enhancement does not only rely on advances on the side of EPR hardware but involves alternative polarization and detection schemes and the adaptation of the method to "real world" samples.

The programme involves applications for collaborative projects that focus on four major research areas. The first two assist comprehensive methods to increase the sensitivity of EPR experiments: 1) methods for improved excitation and manipulation of electron spin magnetization and 2) methods for improved EPR detection. The third and fourth areas explore the applicability of these methods in fields of biological and material sciences, which are not amenable to EPR spectroscopy at the current state-of-the-art.

In the current first phase, the groups with focus on applications have adopted and expanded presently available methods for increased sensitivity (such as the use of micro-resonators, THz spectroscopy, electrical or optical excitation or detection) to their specific purposes. Groups with expertise in EPR methodologies have been developing new experiments. In the second phase of the programme the focus is on joining these two development threads. The outcomes from the methodical work in the first funding period will be transferred within the consortium and optimized in new specific applications.

### Funding Contact Person

Professor Dr. Marina Bennati,  
coordinator (Scientific questions  
about this Priority Programme)  
Max Planck Institute for  
Biophysical Chemistry (Karl-

点我设置

# 热点论文

## 什么是热点论文？

热点论文是指与同领域和同时期出版的论文相比，在出版后很快就得到较高引用的论文。热点论文入选的条件是出版时间不超过**2**年，而且是在当前两个月内被引。根据以上条件，最后每个领域前**0.1%**的论文得以入选。

## 用什么标准确定热点论文？

如果一篇论文在达到其领域和近两个月内的被引频次界值就被选作热点论文。在编制出各个领域和时间组的被引频次分布后，选择在各领域和时间段论文被引计数最稠密的顶端小部分选定界值，而这一小部分定为抽取论文的前**0.1%**。

# 基金案例：追踪脑机融合研究前沿——高被引论文

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BY FIELD	Display papers from this field: (All Fields) [v] [GO]
OR	
BY NAME	Show alphabetic list of: Scientist [v] [GO]
OR	
BY SEARCHING	Enter terms or phrases separated by the operators AND or OR in one or more of the search fields below. Search fields are automatically combined using the AND operator.

Title word:	<input type="text" value="brain computer interface*"/>	example: allerg* and inflam*
Scientist:	<input type="text" value="brain computer interface*"/>	example: WEINBERG B*
Institution:	<input type="text"/>	example: SALK INST*
Country/Territory:	<input type="text"/>	example: USA
Journal:	<input type="text"/>	example: J Cell* ( <a href="#">view full titles</a> )

SEARCH GEAR

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输入： **brain computer interface\***

高被引论文（Highly Cited Papers）  
最近10年发表的论文，总被引次数与同年度，  
同学科发表论文相比排名前1%的论文。

# 基金案例：追踪脑机融合研究前沿——高被引论文

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## HIGHLY CITED PAPERS FOR (BRAIN COMPUTER INTERFACE\*)

Sorted by: Citations

1 - 1 (of 1)

|<< < [ ] > >>|

Page 1 of 1

1 Citations:

RESEARCH FRONT

WEB OF SCIENCE

**Title:** REAL-TIME fMRI BRAIN COMPUTER INTERFACES: SELF-REGULATION OF SINGLE BRAIN REGIONS TO NETWORKS

**Authors:** RUIZ S; BUYUKTURKOGLU K; RANA M; [SINBAUMER N](#); SITARAM R

**Source:** [NEOL PSYCHOL](#) 95: 4-20 SP. ISS. SI JAN 2014

**Addresses:** Univ Tubingen, Inst Med Psychol & Behav Neurobiol, D-72076 Tubingen, Germany.  
Pontificia Univ Catolica Chile, Dept Psiquiatria, Escuela Med, Ctr Interdisciplinario Neurociencias, Santiago 32349, [Chile](#).  
Int Max Planck Res Sch, Grad Sch Neural & Behav Sci, D-72074 Tubingen, Germany.  
Osped San Camillo, IRCCS, I-30126 Venice, [Italy](#).  
[Univ Florida](#), Dept Biomed Engrn, Gainesville, FL 32611 USA.  
Sri Chitra Tirunal Inst Med Sci & Technol, Thiruvananthapuram 696011, Kerala, [India](#).

**Field:** [PSYCHIATRY/PSYCHOLOGY](#)

1 - 1 (of 1)

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Page 1 of 1

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# 追踪脑机融合跨学科前沿——基金论文

The screenshot shows the Web of Science search page. At the top, there are navigation links for 'Web of Science TM', 'InCites TM', 'Journal Citation Reports®', 'Essential Science Indicators SM', and 'EndNote TM'. The main header features the 'WEB OF SCIENCE™' logo and the 'THOMSON REUTERS®' logo. Below the header, there is a search bar with the text 'Web of Science™ 核心合集' and a dropdown menu. To the right of the search bar, there are links for '我的工具', '检索历史', and '标记结果列表'. Below the search bar, there is a '基本检索' section with a dropdown menu. The search criteria are entered in two fields: the first field contains '"brain computer interface\*" or "brain machine interface\*"' and the second field contains 'National Science Foundation or NSF'. There are also dropdown menus for '主题' and '基金资助机构'. A '检索' button is located to the right of the search fields. Below the search fields, there are links for '添加另一字段' and '清除所有字段'. On the left side, there is a '时间跨度' section with a dropdown menu for '所有年份' and a range selector for '从 1985 至 2015'. Below this, there is a '更多设置' section with a list of checkboxes for various citation indexes and core collections. The bottom of the page shows a section for '自动建议的出版物名称' with a '打开' dropdown menu.

Web of Science™ 核心合集

基本检索

"brain computer interface\*" or "brain machine interface\*" 主题

AND National Science Foundation or NSF 基金资助机构 检索

时间跨度

所有年份

从 1985 至 2015

更多设置

Web of Science 核心合集: 引文索引

- Science Citation Index Expanded (SCI-EXPANDED) - 1990年至今
- Social Sciences Citation Index (SSCI) - 2000年至今
- Conference Proceedings Citation Index - Science (CPCI-S) - 2001年至今
- Conference Proceedings Citation Index - Social Science & Humanities (CPCI-SSH) - 2001年至今

Web of Science 核心合集: 化学索引

- Current Chemical Reactions (CCR-EXPANDED) - 1985年至今 (数据来自 Institut National de la Propriété Industrielle 化学结构数据库, 可追溯到 1840 年)
- Index Chemicus (IC) - 1993年至今

最新更新日期: 2013-03-04

自动建议的出版物名称

打开

**"brain computer interface\*" or "brain machine interface\*"**

**National Science Foundation or NSF**

# 追踪脑机融合跨学科前沿——基金论文

## 脑机融合美国科学基金论文

涉及学科

The screenshot shows a Web of Science search results page. The search criteria are "brain computer interface" or "brain machine interface" funded by the National Science Foundation (NSF). The results are sorted by publication date. The left sidebar shows filters for Web of Science categories (Neurosciences, Engineering Biomedical, etc.) and document types (Article, Review). The main content area lists six articles with their titles, authors, journals, and citation counts.

Rank	Title	Author(s)	Journal	Citation Count
1	A Bayesian Framework for Intent Detection and Stimulation Selection in SSVEP BCIs	Higgin, Matt; Akcakaya, Murat; Nezamfar, Hoaman; 等	IEEE SIGNAL PROCESSING LETTERS	0
2	A 4.78 mm(2) Fully-Integrated Neuromodulation SoC Combining 64 Acquisition Channels With Digital Compression and Simultaneous Dual Stimulation	Biederman, William; Yaeger, Daniel J.; Narevsky, Nathan; 等	IEEE JOURNAL OF SOLID-STATE CIRCUITS	0
3	Complexity Optimization and High-Throughput Low-Latency Hardware Implementation of a Multi-Electrode Spike-sorting Algorithm	Dragas, Jelena; Jaeckel, David; Hierlemann, Andreas; 等	IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING	0
4	Informative features of local field potential signals in primary visual cortex during natural image stimulation	Seyedhosseini, Mojtaba; Shushruth, S.; Davis, Tyler; 等	JOURNAL OF NEUROPHYSIOLOGY	0
5	Multifunctional fibers for simultaneous optical, electrical and chemical interrogation of neural circuits in vivo	Canales, Andres; Jia, Xiaoting; Froese, Ulrich P.; 等	NATURE BIOTECHNOLOGY	1
6	Towards computational models of animal cognition, an introduction for computer scientists			0

# 追踪脑机融合跨学科前沿——基金论文

## 脑机融合美国科学基金论文

The screenshot displays a search results page with a sidebar on the left containing various filters and a main content area on the right listing 10 articles. The sidebar filters include:

- NEUROSCIENCES (83)
- ENGINEERING BIOMEDICAL (73)
- REHABILITATION (23)
- ENGINEERING ELECTRICAL ELECTRONIC (19)
- COMPUTER SCIENCE ARTIFICIAL INTELLIGENCE (16)

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The main content area lists 10 articles, each with a title, authors, journal information, and a '查看摘要' button. The articles are:

- Complexity Optimized, High-Throughput, Low-Cost, Low-Power Implementation of a Multi-Electrode Spike-Sorting Algorithm**  
作者: Dragas, Jelena; Jaeckel, David; Hadschmann, Andreas; 等  
IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING 卷: 23 期: 2 页: 149-158  
出版年: MAR 2015
- Informative features of local field potential signals in primary visual cortex during natural image stimulation**  
作者: Seyedhosseini, Mojtaba; Shashruth, S.; Davis, Tyler; 等  
JOURNAL OF NEUROPHYSIOLOGY 卷: 113 期: 5 页: 1520-1532  
出版年: MAR 1 2015
- Multifunctional fibers for simultaneous optical, electrical and chemical interrogation of neural circuits in vivo**  
作者: Canales, Andrea; Jia, Xiaoting; Frisep, Ulrich P.; 等  
NATURE BIOTECHNOLOGY 卷: 33 期: 3 页: 277-+  
出版年: MAR 2015
- Towards computational models of animal cognition, an introduction for computer scientists**  
作者: Ma, Zhenshan (Sam)  
COGNITIVE SYSTEMS RESEARCH 卷: 33 页: 42-69  
出版年: MAR 2015
- Electrical impedance, electrochemistry, mechanical stiffness, and hardness tunability in glassy carbon MEMS mu ECoG electrodes**  
作者: Kassagne, Sam; Vomero, Maria; Gauglio, Roberto; 等  
MICROELECTRONIC ENGINEERING 卷: 133 页: 36-44  
出版年: FEB 5 2015
- Multi-motion robots control based on bioelectric signals from single-channel dry electrode**  
作者: Shan, Hu-Min; Hu, Liang; Lee, Kok-Meng; 等  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE 卷: 229 期: 2 页: 124-136  
出版年: FEB 2015
- Comparison of spike sorting and thresholding of voltage waveforms for intracortical brain-machine interface performance**  
作者: Christie, Breanne P.; Tai, Derek M.; Irwin, Zachary T.; 等  
JOURNAL OF NEURAL ENGINEERING 卷: 12 期: 1 文献号: 016009  
出版年: FEB 2015
- Progress towards biocompatible intracortical microelectrodes for neural interfacing applications**  
作者: Jorfi, Mehdi; Skousen, John L.; Weder, Christoph; 等  
JOURNAL OF NEURAL ENGINEERING 卷: 12 期: 1 文献号: 011001  
出版年: FEB 2015

# 追踪脑机融合跨学科前沿——基金论文

## 脑机融合美国科学基金论文

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### Comparison of spike sorting and thresholding of voltage waveforms for intracortical brain-machine interface performance

作者: Christie, BP (Christie, Breanne P.)<sup>[1]</sup>; Tat, DM (Tat, Derek M.)<sup>[1]</sup>; Irwin, ZT (Irwin, Zachary T.)<sup>[1]</sup>; Gilja, V (Gilja, Vikash)<sup>[2,3,4]</sup>; Nuyujukian, P (Nuyujukian, Paul)<sup>[5,6]</sup>; Foster, JD (Foster, Justin D.)<sup>[7]</sup>; Ryu, SI (Ryu, Stephen I.)<sup>[7,8]</sup>; Shenoy, KV (Shenoy, Krishna V.)<sup>[5,7,9,10]</sup>; Thompson, DE (Thompson, David E.)<sup>[1,11]</sup>; Chestek, CA (Chestek, Cynthia A.)<sup>[1,12,13]</sup>

JOURNAL OF NEURAL ENGINEERING  
卷: 12 期: 1  
文章号: 016009  
DOI: 10.1088/1741-2560/12/1/016009  
出版年: FEB 2015  
[查看期刊信息](#)

#### 摘要

Objective: For intracortical brain-machine interfaces (BMIs), action potential voltage neurons contain independent tuning information, this process could increase BMI sampling rates and is computationally expensive. To explicitly define the difference performance when using threshold-crossing events versus sorted action potential rhesus macaques implanted with Utah arrays. Data were recorded while the animal spike sorting, neural signals were sorted into individual units by using a mixture of For thresholding events, spikes that simply crossed a set threshold were retained direction and a linear regression to evaluate hand position. Main results: We found -3 and -4  $\times$  V-rms. Spike sorted data outperformed thresholded data for one and sorted data was 88.5% and changed by 5% on average when data were threshold by 0.015 on average when thresholded. Significance: For prosthetics applications only a small amount of performance may be lost. The utilization of threshold-cross events are often still detectable once single neurons are no longer isolated.

#### 关键词

作者关键词: spike sorting; threshold; brain-machine interface  
KeyWords Plus: LOCAL-FIELD POTENTIALS; MOTOR CORTEX; NEURAL PRO SIGNALS; MOVEMENT; COMPUTER; GRASP; REACH

#### 作者信息

#### 引文网络

0 被引频次  
44 引用的参考文献  
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#### 关键词

作者关键词: spike sorting; threshold; brain-machine interface  
KeyWords Plus: LOCAL-FIELD POTENTIALS; MOTOR CORTEX; NEURAL PRO SIGNALS; MOVEMENT; COMPUTER; GRASP; REACH

#### 作者信息

姓名: Christie, BP (Christie, Breanne P.)  
地址: Univ Calif San Diego, Dept Elect & Comp Eng, La Jolla, CA 92037 USA  
电子邮件: bchristie@ucsd.edu

#### 基金资助项目

基金资助项目	资助号
National Science Foundation	
NSERC Fellowship	
Texas Instruments Stanford Graduate Fellowship	
Burnhamt Hallmarks Fund Career Awards in the Biomedical Sciences	
Christopher Pease Analytics Foundation	
Stanford University Graduate Fellowship	
Stanford HH Medical Scientist Training Program grant	
Spice Fellowship	

# 追踪脑机融合跨学科前沿——基金论文

## 脑机融合美国科学基金论文

The screenshot shows a Web of Science article page. The article title is "Brain-computer interface control along instructed paths". The authors listed are Sadtler, PT; Ryu, Si; Tyler-Kabara, EC; Yu, BM; and Babista, AP. The journal is "JOURNAL OF NEURAL ENGINEERING", volume 12, issue 1, published in February 2015. The article includes a summary, keywords, and author information. A secondary window is open over the article, showing a list of funding agencies. An arrow points from the text "基金号 (授权号) DGE-0549352" to the entry "DGE" in the funding list.

**Brain-computer interface control along instructed paths**

作者: Sadtler, PT (Sadtler, P. T. [1,2,3]); Ryu, Si (Ryu, S. I. [4,5]); Tyler-Kabara, EC (Tyler-Kabara, E. C. [1,6,7]); Yu, BM (Yu, B. M. [2,8,9]); Babista, AP (Babista, A. P. [1,2,3])

JOURNAL OF NEURAL ENGINEERING  
卷: 12 期: 1  
文献号: 016015  
DOI: 10.1088/1741-2560/12/1/016015  
出版年: FEB 2015  
[查看期刊信息](#)

**摘要**  
Objective. Brain-computer interfaces (BCIs) are being developed to computer cursor or prosthetic limb. Here we introduce a novel BCI task, we can push the performance limits of BCI systems, we can increase the richness of the BCI movement repertoire. Approach. A visible path. The instructed path task provides a versatile framework traditional point-to-point tasks, the instructed path task allows more Main results. We demonstrate that monkeys are able to perform the performance under BCI control compares to native arm control, who and how the kinematic richness is enhanced in this task. Significant BCI systems and their clinical translation.

**关键词**  
作者关键词: brain-computer interface; neural decoding; motor cort  
KeyWords Plus: MOTOR CORTICAL ACTIVITY; MACHINE INTER; RHESUS-MONKEYS; NEURAL CONTROL; ARM MOVEMENTS; I

**作者信息**  
通讯作者地址: Sadtler, PT (通讯作者)  
+ Univ Pittsburgh, Dept Bioengi, Pittsburgh, PA 15260 USA.  
地址:

**关键词**  
作者关键词: brain-computer interface; neural decoding; motor cortex  
KeyWords Plus: MOTOR CORTICAL ACTIVITY; MACHINE INTERFACES; MONKEYS; KINEMATIC; PROSTHETIC DEVICES; FEEDBACK CONTROL; RHESUS-MONKEYS; NEURAL CONTROL; ARM MOVEMENTS; RANDOM WALK; GAZE

**作者信息**  
通讯作者地址: Sadtler, PT (通讯作者)  
+ Univ Pittsburgh, Dept Biomech, Pittsburgh, PA 15260 USA.  
地址:

**基金资助数据**

基金资助机构	基金号
IBM-MCHD-CRENS	R01-HL071666
Gray H. Wallace Foundation	
IBM-INDUC	R01-NS060180
Dunlap-Walton Fund	
DGE	DGE-0549352
IBM Systems Research Center	R01-NS060180

**基金号 (授权号)**  
**DGE-0549352**

# 追踪脑机融合跨学科前沿——基金论文

## 脑机融合美国科学基金论文

The screenshot shows the Web of Science search page. The search bar contains the text "DGE-0549352". A dropdown menu is open, showing various search filters such as "授权号" (Authorization Number), "UII", "出版年" (Publication Year), "地址" (Address), "机构扩展" (Institution Extension), "会议" (Conference), "语种" (Language), "文献类型" (Document Type), "基金资助机构" (Funding Agency), and "授权号" (Authorization Number). The search results section is partially visible, showing a list of search options under "Web of Science 核心合集: 引文索引" and "Web of Science 核心合集: 化学索引".

National Science Foundation

基金号（授权号）DGE-0549352

# 追踪脑机融合跨学科前沿——基金论文

## 脑机融合美国科学基金论文

The image shows a screenshot of the Web of Science search results page. The search criteria are 'National Science Foundation' and 'DGE-0549352'. The results are sorted by '出版日期 (降序)'. The third result is highlighted with a red box:

3. **Neural constraints on learning**  
作者: Sadler, Patrick T.; Quick, Kristin M.; Golub, Matthew D., 等  
NATURE 卷: 512 期: 7515 页: 423-428 出版年: AUG 28 2014  
查看摘要

Web of Science 类别:

- NEUROSCIENCES (15)
- PSYCHOLOGY EXPERIMENTAL (2)
- PHYSIOLOGY (2)
- MULTIDISCIPLINARY SCIENCES (2)
- MATERIALS SCIENCE BIOMATERIALS (2)

Web of Science 文献类型:

- ARTICLE (2)
- REVIEW (1)

研究方面:

作者:

# 追踪脑机融合跨学科前沿——基金论文

## 脑机融合美国科学基金论文

The image shows a screenshot of a Web of Science article page. The article title is "Neural constraints on learning" by Sadtler, PT et al. The journal is "NATURE". The article is annotated with orange text and arrows. The word "《自然》" (Nature) is written in orange above the journal name. The words "神经限制" (Neural constraints) are written in orange above the abstract. A large orange arrow points from the word "神经限制" to the journal name "NATURE".

**《自然》**

**神经限制**

**NATURE**

作者: Sadtler, PT (Sadtler, Patrick T. [1,2,3]), Quirk, KM (Quirk, Kristin M. [1,2,3]), Golub, MD (Golub, Matthew D. [2,4]), Chase, SM (Chase, Steven M. [2,5]), Ryu, SI (Ryu, Stephen J. [6,7]), Tyler-Kabara, EC (Tyler-Kabara, Elizabeth C. [1,8,9]), Yu, BM (Yu, Byron M. [2,4,5]), Batista, AP (Batista, Aaron P. [1,2,3])

**摘要**

Learning, whether motor, sensory or cognitive, requires networks of neurons & others(1,2), we asked if some neural activity patterns are easier to generate if patterns that a subset of its neurons is capable of exhibiting, and if so, what computer interface learning paradigm in which Rhesus macaques (Macaca m primary motor cortex. Using the brain-computer interface paradigm, we could each session, we observed the characteristic activity patterns of the recorded high-dimensional space (termed the neural space), wherein each dimension c comprise a low-dimensional subspace (termed the intrinsic manifold) within it by the underlying neural circuitry. Here we show that the animals could readi within the intrinsic manifold. However, animals were less able to learn to profi manifold. These results suggest that the existing structure of a network can s generate neural activity patterns that are not consistent with the existing nets that we are more readily able to learn new skills when they are related to the

**关键词**

KeyWords Plus: BRAIN-COMPUTER INTERFACE; MOTOR; ADAPTATION; PATTERNS; TASKS

**作者信息**

通讯作者地址: Yu, BM (通讯作者)

**基金资助**

基金名称	项目编号
NEUROSCIENCE	NS1407198
NSF	221420602
Stearns-Welch Postdoc	
NSF	221420602
NSF	221420602

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**关键词**

Keywords Plus: BRAIN-COMPUTER INTERFACE; MOTOR; ADAPTATION; PATTERNS; TASKS

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基金名称	项目编号
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National Science Foundation  
DGE-0549352资助论文

# 追踪跨学科前沿——研究前沿

- **研究前沿（Research Fronts）**：由汤森路透（Thomson Reuters）根据共被引分析和聚类算法选出的学科最新研究前沿，反映现代科学中的研究密集型和突破性领域，每个研究前沿包含一组高被引论文。

# 追踪学科前沿——研究前沿

研究前沿是指当前比较活跃的专业研究领域。首先，通过确定过去五年里发表的高被引论文(按照发表年份，被引次数在其领域位于前 1% 的论文)来确定研究前沿。然后收集引用这些高被引论文的论文并对被引论文进行共引分析。共引分析是一个反复过程。当两篇论文被频繁共引时，则有可能开始形成一个相关研究聚类，这就是一个研究前沿。一些研究前沿是仅围绕两篇或多篇论文建立起来的，而另一些研究前沿由于频繁共引则可能拥有多达50篇相关共引论文，这就是研究前沿内的核心论文。最后，研究前沿是由许多核心论文和将核心论文联系起来的更多施引论文组成的<sup>[2]</sup>。

研究前沿不是由信息分析师选择或定义的，它们是由研究人员自身通过其论文的参考文献确立的。因此，研究前沿反映了众多专家基于全面信息的判断。随着研究的进展，研究前沿的规模及内容总在不断变化。随着汤森路透每次更新数据，都有一些研究前沿消失而另一些研究前沿出现。这些研究前沿因此代表了全球研究界关于科学的结构在当前判断。

# 如何追踪跨学科前沿——研究前沿

# 追踪跨学科学科前沿——研究前沿

ISI Web of Knowledge<sup>SM</sup>

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		ENVIRONMENT/ECOLOG	
		GEOSCIENCES	
		IMMUNOLOGY	
		MATERIALS SCIENCE	
		MATHEMATICS	
		MICROBIOLOGY	
		MOLECULAR BIOLOGY & GENETICS	
		MULTIDISCIPLINARY	
		NEUROSCIENCE & BEHAVIOR	
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追踪跨学科学科前沿——研究前沿

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# 如何追踪跨学科学科前沿——研究前沿

生物燃料间接土地利用变化;温室气体排放;全球土地利用状况;温室气体;土地清理

ISI Web of Knowledge<sup>SM</sup>

Essential Science Indicators<sup>SM</sup>

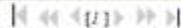


CORE PAPERS IN BIOFUELS INDIRECT LAND USE CHANGE; GREENHOUSE GAS EMISSIONS; GLOBAL LAND USE; GREENHOUSE GASES; LAND CLEARING IN MULTIDISCIPLINARY

Sorted by: Citations

RESET AGAIN

1 - 4 (of 4)



Page 1 of 1

RESEARCH FRONT WEB OF SCIENCE

1 Citations: 1,297

**Title:** USE OF US CROPLANDS FOR BIOFUELS INCREASES GREENHOUSE GASES THROUGH EMISSIONS FROM LAND-USE CHANGE

**Authors:** [SEARCHINGER T.](#), [HEIMLICH R.](#), [HOUGHTON R.A.](#), [DONG F.X.](#), [ELOBEID A.](#), [FABIOSA J.](#), [TOKGOZ S.](#), [HAYES D.](#), [YU TH](#)

**Source:** [SCIENCE](#)  
319 (5867): 1238-1240 FEB 29 2008

**Addresses:** [Princeton Univ.](#), Woodrow Wilson Sch, Princeton, NJ 08544 USA.  
[German Marshall Fund US](#), Washington, DC 20009 USA.  
[Georgetown Environm Law & Policy Inst](#), Washington, DC 20001 USA.  
[Agr Conservat Econ](#), Laurel, MD 20723 USA.  
[Woods Hole Res Ctr](#), Falmouth, MA 02540 USA.  
[Iowa State Univ.](#), Ctr Agr & Rural Dev, Ames, IA 50011 USA.

**Field:** [MULTIDISCIPLINARY](#)

2 Citations: 1,068

**Title:** LAND CLEARING AND THE BIOFUEL CARBON DEBT

**Authors:** [FARGIONE J.](#), [HILL J.](#), [TILMAN D.](#), [POLASKY S.](#), [HAWTHORNE P](#)

**Source:** [SCIENCE](#)  
319 (5867): 1235-1238 FEB 29 2008

**Addresses:** [Univ Minnesota](#), Dept Ecol Evolut & Behav, St Paul, MN 55108 USA.  
[Nature Conservancy](#), Minneapolis, MN 55415 USA.  
[Univ Minnesota](#), Dept Appl Econ, St Paul, MN 55108 USA.

**Field:** [ENVIRONMENT/ECOLOGY](#)

3 Citations: 120

**Title:** EFFECTS OF US MAIZE ETHANOL ON GLOBAL LAND USE AND GREENHOUSE GAS EMISSIONS: ESTIMATING MARKET-MEDIATED RESPONSES

RESEARCH FRONT WEB OF SCIENCE

4篇论文期刊跨MULTIDISCIPLINARY、ENVIRONMENT/ECOLOGY、BIOLOGY & BIOCHEMISTRY等三个研究领域

# 如何追踪跨学科学科前沿——研究前沿

## 70组综合性学科研究前沿

RESEARCH FRONTS RANKINGS IN MULTIDISCIPLINARY

Sorted by: Citations SORT AGAIN

21 - 40 (of 70) Page 2 of 4

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
21	NEURODEGENERATIVE DISEASE, PROTEOSTASIS DEFICIENCY; ADAPTING PROTEOSTASIS; DISEASE INTERVENTION; INDUCIBLE CHAPERONE NETWORKS	3	1,371	457.00	2008.3
22	EUKARYOTIC TRANSCRIPTOME SURVEYED; YEAST GENOME, DYNAMIC REPERTOIRE, RNA SEQUENCING; SINGLE-NUCLEOTIDE RESOLUTION	2	1,298	649.00	2008.0
23	AUTISM SPECTRUM DISORDERS, GLOBAL RARE COPY NUMBER VARIATION; AUTISTIC SPECTRUM DISORDERS; AUTISM IMPLICATE; NOVO VARIANTS	4	1,247	311.75	2010.8
24	ANCESTRAL POLYPLOIDY; POLYPLOIDY; FACILITATING PLANT INVASIONS; VASCULAR PLANTS; SEED PLANTS	8	1,226	153.25	2010.5
25	ACCURATE SHAPE-DIRECTED RNA SECONDARY STRUCTURE MODELING; RNA SECONDARY STRUCTURE PREDICTION; RNA SECONDARY STRUCTURE; ACCURATE SHAPE-DIRECTED RNA STRUCTURE DETERMINATION; MC-SYM PIPELINE INFERS RNA STRUCTURE	11	1,192	108.36	2010.7
26	FEEDING 9 BILLION PEOPLE, CULTIVATED PLANET; FOOD SECURITY, CHALLENGE, SOLUTIONS	2	1,144	572.00	2010.5
27	CLIMATE WARMING; TERRESTRIAL ECTOTHERMS, ECTOTHERMS; LATITUDE, BUFFER COLD-BLOODED ANIMALS	5	1,127	225.40	2009.8
28	CETUXIMAB-RESISTANT COLORECTAL CANCER; COLORECTAL CANCER; EPIDERMAL GROWTH FACTOR RECEPTOR CONFERRING CETUXIMAB RESISTANCE, CANCER THERAPY; ACQUIRED RESISTANCE	9	1,099	122.11	2012.2
29	WHOLE-GENOME ANALYSIS INFORMS BREAST CANCER RESPONSE; BREAST CANCER SUBTYPES; BREAST CANCER; PRIMARY TRIPLE-NEGATIVE BREAST CANCERS; CANCER GENES	4	1,095	273.75	2012.0
30	SYSTEMICALLY ADMINISTERED SIRNA, SIRNA, HUMANS, CYCLODEXTRIN POLYMER-BASED NANOPARTICLE; DELIVERY	2	1,094	547.00	2009.5
31	SOMATIC COPY-NUMBER ALTERATION; HUMAN CANCERS; CANCER GENOME; MUTATION; LANDSCAPE	2	1,013	506.50	2010.0
32	PRECAMBRIAN ATMOSPHERIC OXYGENATION RECORDED, EARTH'S EARLY OCEAN; ATMOSPHERIC OXYGEN CORRELATED; FERRUGINOUS CONDITIONS DOMINATED LATER NEOPROTEROZOIC DEEP-WATER CHEMISTRY; LATER CAMBRIAN OCEAN	14	1,011	72.21	2010.9
33	INDIVIDUAL HUMAN MOBILITY PATTERNS, HUMAN MOBILITY; SCALING PROPERTIES, LIMITS; MODELLING	3	999	333.00	2009.3
34	BREAST CANCERS, MULTIPLE HUMAN CANCERS; BREAST CANCER KATAEGIS; HUMAN CANCERS; BREAST CANCER	7	936	133.71	2012.7
35	HEALTHY HUMAN MICROBIOME, HUMAN MICROBIOME RESEARCH, FRAMEWORK, FUNCTION; STRUCTURE	2	914	457.00	2012.0
36	MYCOPLASMA GENSCHLIUM GENOME; CHEMICALLY SYNTHESIZED GENOME; COMPLETE CHEMICAL SYNTHESIS; BACTERIAL CELL ASSEMBLY	2	854	427.00	2009.0
37	NECK SQUAMOUS CELL CARCINOMA, ORAL SQUAMOUS CELL CARCINOMA, NECK CANCER DEFINES PREDICTIVE BIOMARKERS, HEAD; FREQUENT SOMATIC DRIVERS	4	850	212.50	2012.0
38	SECONDARY ACUTE MYELOID LEUKEMIA, ACUTE MYELOID LEUKEMIA; REPAIRED ACUTE MYELOID LEUKAEMIA; CLONAL EVOLUTION; CLONAL ARCHITECTURE	3	804	268.00	2012.0
39	ADULT HUMAN HEART; CARDIOMYOCYTE RENEWAL, CARDIOMYOGENESIS; HUMANS, EVIDENCE	2	778	389.00	2009.5
40	TOMATO GENOME SEQUENCE PROVIDES INSIGHTS; GENOME SEQUENCE; FLESHY FRUIT EVOLUTION; TUBER CROP POTATO; ANALYSIS	2	750	375.00	2011.5

个人的流动模式;人才流动;缩放属性;极限;建模

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个别人的流动模式;人才流动;缩放属性;极限;建模

CORE PAPERS IN INDIVIDUAL HUMAN MOBILITY PATTERNS; HUMAN MOBILITY; SCALING PROPERTIES; LIMITS; MODELLING IN MULTIDISCIPLINARY

Sorted by: Citations [SORT AGAIN]

1 - 3 (of 3) Page 1 of 1

1 Citations: 641

**Title:** UNDERSTANDING INDIVIDUAL HUMAN MOBILITY PATTERNS 了解不同人的流动模式

**Authors:** GONZALEZ MC; HIDALGO CA; [BARABASI AL](#)

**Source:** [NATURE](#) 453 (7196): 779-782 JUN 5 2008 3篇论文跨MULTIDISCIPLINARY、PHYSICS等两个研究领域

**Addresses:** [Northeastern Univ](#), Ctr Complex Network Res, Boston, MA 02115 USA.  
[Northeastern Univ](#), Dept Phys Biol & Comp Sci, Boston, MA 02115 USA.  
[Univ Notre Dame](#), Ctr Complex Network Res, Notre Dame, IN 46556 USA.  
[Univ Notre Dame](#), Dept Phys & Comp Sci, Notre Dame, IN 46556 USA.  
[Dana Farber Canc Inst](#), Ctr Canc Syst Biol, Boston, MA 02115 USA.

**Field:** [MULTIDISCIPLINARY](#) 美国东北大学复杂网络研究中心

2 Citations: 247

**Title:** LIMITS OF PREDICTABILITY IN HUMAN MOBILITY 预测人才流动

**Authors:** SONG CM; QU ZH; BLUMM N; [BARABASI AL](#)

**Source:** [SCIENCE](#) 327 (5968): 1018-1021 FEB 19 2010

**Addresses:** [Northeastern Univ](#), Ctr Complex Network Res, Dept Phys, Boston, MA 02115 USA.  
[Northeastern Univ](#), Ctr Complex Network Res, Dept Biol, Boston, MA 02115 USA.  
[Northeastern Univ](#), Ctr Complex Network Res, Dept Comp Sci, Boston, MA 02115 USA.  
[Dana Farber Canc Inst](#), Ctr Canc Syst Biol, Boston, MA 02115 USA.  
[Harvard Univ](#), Sch Med, Dept Med, Boston, MA 02115 USA.  
[Univ Elect Sci & Technol China](#), Sch Engn & Comp Sci, Chengdu 610054, Peoples R China.

**Field:** [PHYSICS](#)

3 Citations: 111

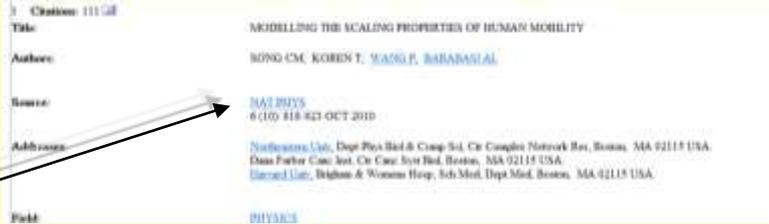
**Title:** MODELLING THE SCALING PROPERTIES OF HUMAN MOBILITY 人才流动的建模

**Authors:** SONG CM; KORDS T; VASSO P; [BARABASI AL](#)

**Source:** [PLoS ONE](#) 6 (10): E18-823 OCT 2010

**Addresses:** [Northeastern Univ](#), Dept Phys Biol & Comp Sci, Ctr Complex Network Res, Boston, MA 02115 USA.  
[Dana Farber Canc Inst](#), Ctr Canc Syst Biol, Boston, MA 02115 USA.  
[Harvard Univ](#), Division & Women's Hosp, Sch Med, Dept Med, Boston, MA 02115 USA.

**Field:** [PHYSICS](#)



# 如何追踪跨学科学科前沿——研究前沿

## 70组综合性学科研究前沿

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### RESEARCH FRONTS RANKINGS IN MULTIDISCIPLINARY

Sorted by: Citations [SORT AGAIN]

61 - 70 (of 70) Page 4 of 4

	View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
61		LYMPHOID CD4 T CELLS ABORTIVELY INFECTED; PYROPTOSIS DRIVES CD4 T-CELL DEPLETION; HIV-1 EVADES INNATE IMMUNE RECOGNITION; CELL DEATH; HIV-1 INFECTION	3	126	42.00	2013.7
62		RESTORING SYSTEMIC GDF11 LEVELS REVERSES AGE-RELATED DYSFUNCTION; YOUNG BLOOD REVERSES AGE-RELATED IMPAIRMENTS; REVERSES AGE-RELATED CARDIAC HYPERTROPHY; YOUNG SYSTEMIC FACTORS; GROWTH DIFFERENTIATION FACTOR 11	4	119	29.75	2013.8
63		DIFFUSE INTRINSIC PONTINE GLIOMA; DIFFUSE INTRINSIC PONTINE GLIOMAS; PEDIATRIC NON-BRAINSTEM HIGH-GRADE GLIOMA; RECURRENT SOMATIC MUTATIONS; ACVR1 MUTATIONS	6	95	15.83	2014.0
64		MYELOMA DRUG LENALIDOMIDE; T CELL REPRESSORS IKAROS; POMALIDOMIDE CO-STIMULATE T CELLS; MULTIPLE MYELOMA CELLS; IMMUNOMODULATORY AGENTS LENALIDOMIDE	3	82	27.33	2014.0
65		ZAIKE EBOLA VIRUS DISEASE; EBOLA VIRUS DISEASE; GENOMIC SURVEILLANCE ELUCIDATES EBOLA VIRUS ORIGIN; ZOOXYOTIC NICHE; 2014 OUTBREAK	3	76	25.33	2014.0
66		HOLE-CONDUCTOR-FREE PEROVSKITE ORGANIC LEAD IODIDE HETEROJUNCTION THIN-FILM SOLAR CELLS; HOLE-CONDUCTOR-FREE MESOSCOPIC TiO2/CH3NH3PbI3 HETEROJUNCTION SOLAR CELLS BASED; HIGHLY EFFICIENT HOLE CONDUCTOR FREE CH3NH3PbI3 PEROVSKITE SOLAR CELLS; FULLY PR	4	73	18.25	2014.0
67		DECOMPOSERS DRIVES SOIL CARBON STORAGE; MYCORRHIZAL-ASSOCIATED NUTRIENT ECONOMY; TEMPERATE FORESTS; CARBON-NUTRIENT COUPLINGS; MODELING PERSPECTIVES	3	49	16.33	2013.7
68		ENDOTHELIAL CELL-DERIVED ANGIOPOIETIN-2 CONTROLS LIVER REGENERATION; VASCULAR NICHE BALANCE LIVER REGENERATION; DIVERGENT ENDOCRINE SIGNALS; SPATIOTEMPORAL HOMEOSTAT; FIBROSIS	2	44	22.00	2014.0
69		FILOVIRUS DISEASES; FILOVIRUS INFECTIONS; ADVANCED EBOLA VIRUS INFECTION; BROAD-SPECTRUM NUCLEOSIDE ANALOGUE BCK4430; SMALL ANIMAL MODEL	3	38	12.67	2014.0
70		HIGHLY MULTIPLEXED SUBCELLULAR RNA SEQUENCING; VIVO ANALYSIS (TIVA); LIVE TISSUE; SINGLE CELLS; SITU	2	25	12.50	2014.0

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出版年：2014

钙钛矿型甲胺铅碘薄膜太阳能电池，高效率的无空穴传输材料的钙钛矿型太阳能电池

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4篇论文跨MULTIDISCIPLINARY、PHYSICS、CHEMISTRY等三个研究领域，3篇来自中国学者，其中华中科技大学2篇

CORE PAPERS IN HOLE-CONDUCTOR-FREE PEROVSKITE ORGANIC LEAD IODIDE HETEROJUNCTION THIN-FILM SOLAR CELLS; HOLE-CONDUCTOR-FREE MESOSCOPIC TiO<sub>2</sub>/CH<sub>3</sub>NH<sub>3</sub>PBI<sub>3</sub> HETEROJUNCTION SOLAR CELLS BASED; HIGHLY EFFICIENT HOLE CONDUCTOR FREE CH<sub>3</sub>NH<sub>3</sub>PBI<sub>3</sub> PEROVSKITE SOLAR CELLS; FULLY PRINTABLE MULTIDISCIPLINARY

中国科学院物理研究所/北京凝聚态物理国家重点实验室清洁能源重点实验室孟庆波课题组

钙钛矿型甲胺铅碘薄膜太阳能电池研究获进展

Sorted by: Citations SORT AGAIN

1 - 4 (of 4) Page 1 of 1

1 Citations: 28 [Call](#)

**Title:** HOLE-CONDUCTOR-FREE PEROVSKITE ORGANIC LEAD IODIDE HETEROJUNCTION THIN-FILM SOLAR CELLS: HIGH EFFICIENCY AND JUNCTION PROPERTY

**Authors:** [SHI JL](#), [DONG L](#), LV ST, XU YZ, ZHU LP, XIAO JY, [XU X](#), [WU HL](#), [LI DM](#), [LIU YH](#), [MENG QB](#)

**Source:** [APPL PHYS LETT](#) 104 (6): - FEB 10 2014

**Addresses:** [Chinese Acad Sci](#), Key Lab Renewable Energy, Beijing Key Lab New Energy Mat & Devices, Inst Phys, Beijing 100190, Peoples R China.

**Field:** [PHYSICS](#)

2 Citations: 19 [Call](#)

**Title:** A HOLE-CONDUCTOR-FREE, FULLY PRINTABLE MESOSCOPIC PEROVSKITE SOLAR CELL WITH HIGH STABILITY

**Authors:** [MEI AY](#), [LI X](#), [LIU LP](#), KU ZL, [LIU TE](#), [FONG YG](#), [XU M](#), [HU M](#), [CHEN JZ](#), [YANG Y](#), [GRATZEL M](#), [HAN HW](#)

**Source:** [SCIENCE](#) 345 (6194): 295-298 JUL 18 2014

**Addresses:** [Huazhong Univ Sci & Technol](#), Sch Optic & Elect Informat, Wuhan Natl Lab Optoelect, Michael Gratzel Ctr Mesoscop Solar Cells, Wuhan 430074, Hubei, Peoples R China. Ecole Polytech Fed Lausanne, Sch Basic Sci, Inst Chen Sci & Engr, Lab Photon & Interfaces, CH-1015 Lausanne, [Switzerland](#).

**Field:** [MULTIDISCIPLINARY](#)

3 Citations: 16 [Call](#)

**Title:** DEPLETION REGION EFFECT OF HIGHLY EFFICIENT HOLE CONDUCTOR FREE CH<sub>3</sub>NH<sub>3</sub>PBI<sub>3</sub> PEROVSKITE SOLAR CELLS

**Authors:** [AHARON S](#), [GABRIEL S](#), [EL COHEN B](#), [BTGAR L](#)

热点论文

华中科技大学韩宏伟课题组在国家自然科学基金委员会青年基金资助下完成的有关全印刷介观钙钛矿太阳能电池研究的新进展

# 如何追踪跨学科学科前沿——研究前沿

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城市生态系统, 城市绿地共享组织, 保留城市园林, 城市环境, 城市

RESEARCH FRONTS RANKINGS FOR URBAN ECOLOGICAL SYSTEMS

Sorted by: Citations [SORT AGAIN]

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	URBAN ECOLOGICAL SYSTEMS; URBAN GREEN COMMONS; URBAN GARDENS-RETAINING; URBAN ENVIRONMENTS; CITIES	5	563	112.60	2010.4

1 - 1 (of 1) Page 1 of 1

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RESEARCH FRONTS RANKINGS FOR CONSUMER RETAIL FOOD ENVIRONMENTS GLOBALLY

Sorted by: Citations [SORT AGAIN]

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	MONITORING FOOD; MONITORING FOODS; CONSUMER RETAIL FOOD ENVIRONMENTS GLOBALLY; MONITORING; FOOD COMPANIES CALORIE-REDUCTION PLEDGES	10	108	10.80	2012.9

1 - 1 (of 1) Page 1 of 1

监测食品, 监测食品, 全球消费者食品零售环境;监测;食品公司卡路里—减少保证

# 如何追踪跨学科学科前沿——研究前沿

淡水生物多样性保护;淡水保护规划;系统保护规划;人力水源安全;淡水生态区

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RESEARCH FRONTS RANKINGS FOR FRESHWATER BIODIVERSITY CONSERVATION

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	FRESHWATER BIODIVERSITY CONSERVATION, FRESHWATER CONSERVATION PLANNING; SYSTEMATIC CONSERVATION PLANNING; HUMAN WATER SECURITY, FRESHWATER ECOREGIONS	6	643	107.17	2010.3

1 - 1 (of 1) Page 1 of 1

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红树林, 红树林生态系统, 红树林的建立; 富碳森林;全球气候变化

RESEARCH FRONTS RANKINGS FOR MANGROVE ECOSYSTEMS

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	MANGROVE FORESTS; MANGROVE ECOSYSTEMS; MANGROVE ESTABLISHMENT; CARBON-RICH FORESTS; GLOBAL CLIMATE CHANGE	11	934	84.91	2009.2

使用FACEBOOK, 社交网站; FACEBOOK的用途, FACEBOOK活动; FACEBOOK用法

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RESEARCH FRONTS RANKINGS FOR FACEBOOK ACTIVITIES

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	FACEBOOK USE; SOCIAL NETWORKING WEB SITES, USES FACEBOOK; FACEBOOK ACTIVITIES; FACEBOOK USAGE	14	906	64.71	2009.5

1 - 1 (of 1) Page 1 of 1

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心理压力, 压力, 向心性肥胖, 饮食习惯, 吃

RESEARCH FRONTS RANKINGS FOR EATING BEHAVIOR

Sorted by: Citations

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	PSYCHOSOCIAL STRESS; STRESS; CENTRAL OBESITY; EATING BEHAVIOR; EATING	4	522	130.50	2007.5

1 - 1 (of 1) Page 1 of 1

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细颗粒空气污染;颗粒组成;入院;化学成分;紧急情况入住

RESEARCH FRONTS RANKINGS FOR FINE PARTICLE AIR POLLUTION

Sorted by: Citations

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	FINE PARTICLE AIR POLLUTION; PARTICLE COMPOSITION; HOSPITAL ADMISSIONS; CHEMICAL COMPOSITION; EMERGENCY ADMISSIONS	4	331	82.75	2008.5

1 - 1 (of 1) Page 1 of 1

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RESEARCH FRONTS RANKINGS FOR CLIMATE CHANGE ADAPTATION

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	CLIMATE CHANGE ADAPTATION, CLIMATE CHANGE POLICY RESPONSES, CLIMATE CHANGE VULNERABILITY RESEARCH, CLIMATE CHANGE IMPACTS, CLIMATE CHANGE	13	508	39.08	2010.8

1 - 1 (of 1) Page 1 of 1

适应气候变化;气候变化的政策响应;气候变化脆弱性研究, 气候变化造成的影响, 气候变化

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RESEARCH FRONTS RANKINGS FOR CO2-INDUCED OCEAN ACIDIFICATION

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	SEAWATER ACIDIFICATION IMPACTS SEA URCHIN LARVAL DEVELOPMENT I; CO2-DRIVEN OCEAN ACIDIFICATION RADICALLY AFFECTS LARVAL SURVIVAL; NEAR-FUTURE OCEAN ACIDIFICATION; CO2-DRIVEN OCEAN ACIDIFICATION; CO2-INDUCED OCEAN ACIDIFICATION	24	2,186	91.08	2009.8

1 - 1 (of 1) Page 1 of 1

海水酸化影响海胆幼体发育, 二氧化碳驱使海洋酸化根本上影响幼体成活率; 不久的将来海洋酸化, 二氧化碳驱使海洋酸化, 二氧化碳致使海洋酸化

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RESEARCH FRONTS RANKINGS FOR REDUCING AGRICULTURAL WATER USE

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	MAXIMIZE CROP WATER PRODUCTIVITY; AQUACROP-THE FAO CROP MODEL; AGRICULTURAL WATER PRODUCTIVITY; BIOMASS WATER PRODUCTIVITY; REDUCING AGRICULTURAL WATER USE	8	654	81.75	2008.8

农作物用水生产率最大化; 联合国世界粮农组织模型; 农业水分生产率; 生物质水的生产力, 减少农业用水

# 追踪生物学与生物化学跨学科前沿——研究前沿

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Citation Rankings:	<ul style="list-style-type: none"><li>- <a href="#">Scientists</a></li><li>- <a href="#">Institutions</a></li><li>- <a href="#">Countries/Territories</a></li><li>- <a href="#">Journals</a></li></ul>	Commentary: <a href="#">IN-CITES</a> <a href="#">SPECIAL TOPICS</a> <a href="#">SCIENCE-WATCH</a>
Most Cited Papers:	<ul style="list-style-type: none"><li>- <a href="#">Highly Cited Papers (last 10 years)</a></li><li>- <a href="#">Hot Papers (last 2 years)</a></li></ul>	
Citation Analysis:	<ul style="list-style-type: none"><li>- <a href="#">Baselines</a></li><li>- <a href="#">Research Fronts</a></li></ul>	

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# 追踪生物学与生物化学跨学科前沿——研究前沿

通过共引分析方法，揭示各个学科当前的研究前沿，锁定隐含的突破性研究

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BY FIELD:	Select a topic from this field:	<input type="text" value="BIOLOGY &amp; BIOCHEMISTRY"/>	GO
OR			
BY NAME:	Enter up to five terms or phrases <i>Example: BREAST CANCER</i>	<input type="text"/>	AND or OR to search.

- Enter **CANCER** to search for citation data in the areas of
- Enter **HEPATITIS\*** to search for citation data in the areas of
- Enter **HIV-1** to search for citation data in the areas of
- Enter **POLYMER\*** to search for citation data in the areas of

**RESEARCH FRONTS EXAMPLES**

BREAST CANCER GENE MUTATIONS, HEPATITIS-A VIRUS, or HIV-1 DISEASE PROGRESSION. POLYMER LIGHT-EMITTING CELLS or POLYSTYRENE BLOCK POLYMERS.

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# 追踪生物学与生物化学跨学科前沿——研究前沿

3月5日

点击了解高被引论文的相关度

982组生物学与生物化学研究前沿

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### RESEARCH FRONTS RANKINGS IN BIOLOGY & BIOCHEMISTRY

Sorted by: Citations

1 - 20 (of 982)

Page 1 of 50

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	MACROMOLECULAR CRYSTALLOGRAPHY DATA REDUCTION; AUTOMATED MACROMOLECULAR MODEL BUILDING; MACROMOLECULAR CRYSTALLOGRAPHY; AUTOMATED CRYSTALLOGRAPHIC STRUCTURE REFINEMENT; MACROMOLECULAR STRUCTURE SOLUTION	19	18,974	998.63	2010.6
2	RNA-BINDING PROTEIN HUR COUPLES PRE-MRNA PROCESSING; ENDOGENOUS ARGONAUTE BINDING SITES; MAMMALIAN MICRORNAS PREDOMINANTLY ACT; MICRORNA TARGET SITES; AGO2 BINDING SITES	16	12,746	796.63	2009.8
3	PLURIPOTENT MOUSE STEM CELLS; PLURIPOTENT STEM CELLS FREE; PLURIPOTENT STEM CELLS; HUMAN IPS CELLS; HUMAN CELL	21	12,666	603.17	2008.9
4	MITOCHONDRIAL DEPOLARIZATION RECRUITS PARKIN; PARKIN E3 UBIQUITIN LIGASE ACTIVITY; DROSOPHILA PARKIN REQUIRES PINK1; PARKIN UBIQUITIN LIGASE; PINK1 DRIVES PARKIN SELF-ASSOCIATION	47	10,554	224.55	2010.5
5	CRISPR RNA-GUIDED DNA RECOGNITION; RNA-GUIDED CRISPR CAS9; RNA-GUIDED HUMAN GENOME ENGINEERING; CRISPR RNA-GUIDED ACTIVATION; CRISPR/CAS ADAPTIVE BACTERIAL IMMUNITY SYSTEM	49	5,170	105.47	2011.7
6	POTENTIAL ALGAL BIODIESEL PRODUCTION; SUSTAINABLE ALGAL BIOFUEL PRODUCTION; BIODIESEL PRODUCTION PROCESS; BIODIESEL PRODUCTION; LIPID PRODUCTION	47	9,060	192.77	2010.1
7	HUMAN A(2A) ADENOSINE RECEPTOR BOUND; AGONIST-BOUND HUMAN A(2A) ADENOSINE RECEPTOR; HUMAN M2 MUSCARINIC ACETYLCHOLINE RECEPTOR BOUND; AGONIST-BOUND ADENOSINE A(2A) RECEPTOR STRUCTURES; HUMAN HISTAMINE H-1 RECEPTOR COMPLEX	26	8,661	333.12	2010.7
8	MICROBIAL DIVERSITY; CHIMERIC 16S RNA SEQUENCE FORMATION; 454-PYROSEQUENCED PCR AMPLICONS; RARE BIOSPHERE; DIVERSITY ESTIMATES	13	8,256	635.08	2010.0
9	TDP-43 MUTANT TRANSGENIC MICE DEVELOP FEATURES; FAMILIAL AMYOTROPHIC LATERAL SCLEROSIS TYPE 6; TDP-43 TRANSGENIC MICE DEVELOP SPASTIC PARALYSIS; FAMILIAL AMYOTROPHIC LATERAL SCLEROSIS; TDP-43 MUTATIONS	25	6,945	277.80	2009.2
10	NOVOZYMERS™ ENZYME-BINDING TAGS FOR REAGENT-FREE TRANSCRIPTION; NOVOZYMERS™ ENZYME-BINDING TAGS FOR REAGENT-FREE TRANSCRIPTION	16	6,884	430.25	2009.7
11	COLORECTAL CANCER SCREENING 2008; COLORECTAL CANCER SCREENING; COLORECTAL CANCER PATHOGENESIS; COLORECTAL CANCER METASTASIS; COLORECTAL CANCER; SEVEN TIMES	33	6,795	205.91	2010.6
12	THYMINE DNA METHYLASES SPATIALLY RECOGNIZES 5-CARBOXYL CYTOSINE REPEATS IN HUMAN EMBRYONIC STEM CELL DNA; EMBRYONIC STEM CELLS; NUCLEAR DNA BASE 5-HYDROXYMETHYLCTOSINE; ACTIVE DNA DEMETHYLATION	19	6,704	352.84	2010.7
13	ADULT HUMAN BROWN FAT BROWNING; HUMAN BROWN ADIPOSE TISSUE; METABOLICALLY ACTIVE BROWN ADIPOSE TISSUE; BROWN ADIPOSE TISSUE; BROWN ADIPOSE TISSUE; BROWN ADIPOSE TISSUE; BROWN ADIPOSE TISSUE	43	6,487	150.86	2011.9
14	INTERFEROMETRIC FLUORESCENT SUPER-RESOLUTION MICROSCOPY RESOLVES 3D CELLULAR ULTRASTRUCTURE; ISOTROPIC THREE-DIMENSIONAL SUPER-RESOLUTION IMAGING; SUPER-RESOLUTION FLUORESCENCE IMAGING; THREE-DIMENSIONAL SUB-100 NM RESOLUTION FLUORESCENCE MICROSCOPY	46	6,481	140.89	2010.7
15	VISIBLE LIGHT PHOTOREDOX CATALYSIS; VISIBLE-LIGHT PHOTOREDOX CATALYSIS; PHOTOREDOX CATALYZED C-P BOND FORMING REACTIONS-VISIBLE LIGHT; OXIDATIVE VISIBLE LIGHT PHOTOCATALYSIS; ELECTRON TRANSFER PHOTOREDOX CATALYSIS	35	6,199	177.11	2010.9

可以按照篇均论文被引数排序

潜在藻类生产生物柴油;可持续藻类生物燃料生产;生物柴油的生产过程;生物柴油生产;生产油脂

# 追踪生物学与生物化学跨学科前沿——研究前沿

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## 47篇高被引论文的相关度，篇均被引192.77次

CORE PAPERS IN POTENTIAL ALGAL BIODIESEL PRODUCTION; SUSTAINABLE ALGAL BIOFUEL PRODUCTION; BIODIESEL PRODUCTION PROCESS; BIODIESEL PRODUCTION; LIPID PRODUCTION IN BIOLOGY & BIOCHEMISTRY

潜在藻类生产生物柴油;可持续藻类生物燃料生产;生物柴油的生产过程;生物柴油生产;生产油脂

Sorted by: Citations [v] [x] [y] [z] [w] [u] [t] [s] [r] [q] [p] [o] [n] [m] [l] [k] [j] [i] [h] [g] [f] [e] [d] [c] [b] [a]

Page 1 of 3

1 Citations: 321 [v] [x] [y] [z] [w] [u] [t] [s] [r] [q] [p] [o] [n] [m] [l] [k] [j] [i] [h] [g] [f] [e] [d] [c] [b] [a]

Title: MICROALGAL TRIACYLGLYCEROLS AS FEEDSTOCKS FOR BIOFUEL PRODUCTION: PERSPECTIVES AND ADVANCES

Authors: [HEI Q.](#), [DOMMESFELD M.](#), [JARVIS E.](#), [GHIRARDI M.](#), [POSEWITZ M.](#), [SELBERT M.](#), [DARZINS A.](#)

Source: [PLANT J.](#)  
54 (4): 621-639 MAY 2008

Addresses: [Natl Renewable Energy Lab.](#), Golden, CO 80401 USA.  
[Arizona State Univ.](#), Dept Appl Biol Sci, Mesa, AZ 85212 USA.  
[Colorado Sch Mines](#), Dept Chem & Geochen, Golden, CO 80401 USA.

平均出版年  
2010.1

Field: [PLANT & ANIMAL SCIENCE](#)

2 Citations: 714 [v] [x] [y] [z] [w] [u] [t] [s] [r] [q] [p] [o] [n] [m] [l] [k] [j] [i] [h] [g] [f] [e] [d] [c] [b] [a]

Title: MICROALGAE FOR BIODIESEL PRODUCTION AND OTHER APPLICATIONS: A REVIEW

Authors: [MATA T.M.](#), [MARTINS A.A.](#), [CAETANO M.S.](#)

Source: [RENEW SUSTAIN ENERGY REV](#)  
14 (1): 217-232 JAN 2010

Addresses: [Univ Porto](#), Fac Engrs, P-4200465 Oporto, [Portugal](#).  
[IPP](#), Sch Engrs ISEP, P-4200072 Oporto, [Portugal](#).

学科涉及PLANT & ANIMAL SCIENCE、  
ENVIRONMENT/ECOLOGY、BIOLOGY &  
BIOCHEMISTRY、ENGINEERING、  
MICROBIOLOGY、CHEMISTRY 六个学科

Field: [ENVIRONMENT/ECOLOGY](#)

3 Citations: 568 [v] [x] [y] [z] [w] [u] [t] [s] [r] [q] [p] [o] [n] [m] [l] [k] [j] [i] [h] [g] [f] [e] [d] [c] [b] [a]

Title: MICROALGAE FOR OIL: STRAIN SELECTION, INDUCTION OF LIPID SYNTHESIS AND OUTDOOR MASS CULTIVATION IN A LOW-COST PHOTOBIOREACTOR

Authors: [RODOLFI L.](#), [ZITTELLI G.C.](#), [BASSI N.](#), [PADOVANI G.](#), [BIOMDI N.](#), [BONINI G.](#), [TREDICI M.R.](#)

RESEARCH FRONT WEB OF SCIENCE

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BY FIELD:	Select a topic from this field: (All Fields) <input type="button" value="GO"/>
OR	
BY NAME:	Enter up to five terms or phrases separated by the operators AND or OR to search. <i>Example: BREAST CANCER (more examples)</i> <input type="text" value="HIGH-DENSITY LIPOPROTEIN"/> <input type="button" value="SEARCH"/>

**RESEARCH FRONTS EXAMPLES**

- Enter **CANCER** to search for citation data in the areas of PROSTATE-CANCER SCREENING or BREAST CANCER GENE MUTATIONS.
- Enter **HEPATITIS\*** to search for citation data in the areas of HEPATITIS-B VIRUS or HEPATITIS-A VIRUS.
- Enter **HIV-1** to search for citation data in the areas of HIV-1 ANTIRETROVIRAL THERAPY or HIV-1 DISEASE PROGRESSION.
- Enter **POLYMER\*** to search for citation data in the areas of RNA-POLYMERASE CHAIN REACTION, POLYMER LIGHT-EMITTING CELLS or POLYSTYRENE BLOCK POLYMERS.

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输入: HIGH-DENSITY LIPOPROTEIN

追踪高密度脂蛋白跨学科前沿

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## RESEARCH FRONTS RANKINGS FOR HIGH-DENSITY LIPOPROTEIN

Sorted by: Citations SORT AGAIN

1 - 5 (of 5) | Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	HIGH-DENSITY LIPOPROTEIN VASCULAR PROTECTIVE EFFECTS; HIGH-DENSITY LIPOPROTEIN CHOLESTEROL LEVELS; SIMILAR HIGH-DENSITY LIPOPROTEIN CHOLESTEROL; HIGH-DENSITY LIPOPROTEIN CHOLESTEROL; HIGH-DENSITY LIPOPROTEIN FUNCTION	48	7,730	161.04	2011.2
2	PLASMA HIGH-DENSITY LIPOPROTEIN LEVELS; PLASMA HIGH-DENSITY LIPOPROTEIN; CONTROL CHOLESTEROL HOMEOSTASIS; FATTY ACID METABOLISM; CHOLESTEROL METABOLISM	10	1,049	104.90	2011.4
3	LOW-DENSITY LIPOPROTEIN (LDL) CHOLESTEROL; LOW-DENSITY LIPOPROTEIN CHOLESTEROL; NON-HIGH-DENSITY LIPOPROTEIN CHOLESTEROL; LDL CHOLESTEROL; NON-HDL CHOLESTEROL	5	367	73.40	2011.8
4	NON-HIGH-DENSITY LIPOPROTEIN CHOLESTEROL REDUCTION; CORONARY HEART DISEASE RISK; STATIN TREATMENT; CARDIOVASCULAR EVENTS; RELATIONSHIP	2	310	155.00	2008.5
5	LOW-DENSITY LIPOPROTEIN (LDL) SUBCLASSES; DYSFUNCTIONAL HDL; CLINICAL SIGNIFICANCE; EXPERT PANEL STATEMENT; RAISING HIGH-DENSITY LIPOPROTEIN CHOLESTEROL (HDL-C)	6	269	44.83	2012.5

1 - 5 (of 5) | Page 1 of 1

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高密度脂蛋白血管保护作用;高密度脂蛋白胆固醇;相似的高密度脂蛋白胆固醇;高密度脂蛋白胆固醇;高密度脂蛋白的功能

# 追踪生物学与生物化学跨学科前沿——研究前沿

高密度脂蛋白血管保护作用;高密度脂蛋白胆固醇;相似的高密度脂蛋白胆固醇;高密度脂蛋白胆固醇;高密度脂蛋白的功能

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CORE PAPERS IN HIGH-DENSITY LIPOPROTEIN VASCULAR PROTECTIVE EFFECTS; HIGH-DENSITY LIPOPROTEIN CHOLESTEROL LEVELS; SIMILAR HIGH-DENSITY LIPOPROTEIN CHOLESTEROL; HIGH-DENSITY LIPOPROTEIN CHOLESTEROL; HIGH-DENSITY LIPOPROTEIN FUNCTION

Sorted by: Citations SORT AGAIN

1 - 20 (of 48)

Page 1 of 3

1 Citations: 670

Title: EFFECTS OF COMBINATION LIPID THERAPY IN TYPE 2 DIABETES MELLITUS

Authors: GINSBERG HN, ELAM NB, LOVATO LC, CROUSE JR, LEITER LA, LINZ P, PEINOWALD NJ, BUCK JB, GERSTEIN DL, PROSITFIELD J, GRIMM NH, ISMAIL-SKIKY F, BIGGER JT, GOFF DC, CUSHMAN WC, SIMONS-MORTON DG, HYINGTON RP

Source: N ENGL J MED 362 (17): 1563-1574 APR 2 2010

Addresses: Columbia Univ Cell Phys & Surg, Dept Med, New York, NY 10032 USA.  
Memphis Vet Affairs Med Ctr, Memphis, TN USA.  
Wake Forest Univ, Sch Med, Dept Publ Hlth Sci, Winston Salem, NC 27109 USA.  
Wake Forest Univ, Sch Med, Prevent Cardiol Program, Winston Salem, NC 27109 USA.  
Univ Toronto, Toronto, ON, Canada.  
UCSD, Med Ctr, San Diego, CA 92162 USA.  
Columbia Univ, Mailman Sch Publ Hlth, Dept Biostat, New York, NY USA.  
Columbia Univ, Mailman Sch Publ Hlth, Dept Epidemiol, New York, NY USA.  
Univ N Carolina, Sch Med, Div Endocrinol, Chapel Hill, NC USA.  
McMaster Univ, Dept Med, Hamilton, ON, Canada.  
McMaster Univ, Populat Hlth Res Inst, Hamilton, ON, Canada.  
UNIV WASHINGTON, SEATTLE, WA 98195 USA.  
Sarsan Ctr Outcomes & Clin Res, Minneapolis, MN USA.  
Case Western Reserve Univ, Dept Med, Cleveland, OH 44106 USA.  
Case Western Reserve Univ, Dept Physiol & Biophys, Cleveland, OH 44106 USA.  
Columbia Univ Cell Phys & Surg, Div Cardiol, New York, NY 10032 USA.  
NHLBI, Bethesda, MD 20892 USA

Field: CLINICAL MEDICINE

2 Citations: 620

Title: SIMVASTATIN WITH OR WITHOUT REDUCTION IN AMYLOID B PEPTIDE LEVELS

Authors: KASTLEIN LP, AKOBI F, STROES EGJ, ZWISLOCKI AH, ROTS ML, STALBORGER APH, VISSEREN FLJ, SLIBRANDS EIG, TRIP MD, STRIN BA, GAURET D, DUIVENVOORDEN R, VELTRI EP, MARAIS AD, DE GROOT E

48篇高被引论文的相关度，篇均被引161.04次

平均出版年  
2011.2

学科涉及CLINICAL MEDICINE、PHARMACOLOGY & TOXICOLOGY、IMMUNOLOGY、MOLECULAR BIOLOGY & GENETICS四个学科

# 如何追踪经济学与商学学科前沿——研究前沿

# 追踪经济学与商学学科前沿——研究前沿

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Most Cited Papers:	<ul style="list-style-type: none"><li>- <a href="#">Highly Cited Papers (last 10 years)</a></li><li>- <a href="#">Hot Papers (last 2 years)</a></li></ul>	
Citation Analysis:	<ul style="list-style-type: none"><li>- <a href="#">Baselines</a></li><li>- <a href="#">Research Fronts</a></li></ul>	

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通过共引分析方法，揭示各个学科当前的研究前沿，锁定隐含的突破性研究

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<b>BY FIELD:</b>	Select a topic from this field:	Economics & Business	GO
<b>OR</b>		(All Fields) Agricultural Sciences Biology & Biochemistry Chemistry Clinical Medicine Computer Science Economics & Business Engineering Environment/Ecology Geosciences Immunology Materials Science Mathematics Microbiology Molecular Biology & Genetics Multidisciplinary Neuroscience & Behavior Pharmacology & Toxicology Physics Plant & Animal Science Psychiatry/Psychology Social Sciences, general Space Science	
<b>BY NAME:</b>	Enter up to five terms or phrases <i>Example: BREAST CANCER</i>		SEARCH

Use AND or OR to search.

**RESEARCH FRONTS EXAMPLES**

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or HEPATITIS-A VIRUS.  
THERAPY of HIV-1 DISEASE PROGRESSION.  
CHAIN REACTION, POLYMER LIGHT-EMITTING CELLS or POLYSTYRENE BLOCK

- Enter **CANCER** to search for citation data in the areas of CANCER.
- Enter **HEPATITIS\*** to search for citation data in the areas of HEPATITIS.
- Enter **HIV-1** to search for citation data in the areas of HIV-1.
- Enter **POLYMER\*** to search for citation data in the areas of POLYMERS.

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3月5日

# 追踪经济学与商学学科前沿——研究前沿

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## 259组经济学与商学研究前沿

点击了解高被引论文的相关度

RESEARCH FRONTS RANKINGS IN ECONOMICS & BUSINESS

Sorted by: Citations [v] SORT AGAIN

1 - 20 (of 259)

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	TESTING INDIRECT EFFECTS; COMPARING INDIRECT EFFECTS; MULTIPLE MEDIATOR MODELS; COMPLEX MODELS; RESAMPLING STRATEGIES	3	4,756	1585.33	2008.7
2	SUBJECTIVE WELL-BEING MEASURES; SUBJECTIVE WELL-BEING; POSITIVE PSYCHOLOGICAL WELL-BEING; EMOTIONAL WELL-BEING; PSYCHOLOGICAL WELL-BEING	26	2,869	110.35	2009.7
3	RARE DISASTERS EXPLAIN AGGREGATE STOCK MARKET VOLATILITY; EXPECTED STOCK RETURNS; ULTRA HIGH FREQUENCY VOLATILITY ESTIMATION; STOCK RETURNS; REALIZED VOLATILITY	40	2,766	69.15	2009.8
4	GLOBAL TRADE ANALYSIS PROJECT DATABASE (GTAP-MRIO); MULTI-REGION INPUT-OUTPUT ANALYSIS; GLOBAL MULTI-REGION INPUT-OUTPUT DATABASE; GLOBAL MULTI-REGIONAL ENVIRONMENTALLY EXTENDED INPUT-OUTPUT DATABASE; EMBEDDED CARBON DIOXIDE EMISSION	41	2,726	62.61	2011.2
5	ENERGY CONSUMPTION NEXUS; RENEWABLE ENERGY CONSUMPTION; ENERGY CONSUMPTION EFFECTIVE; ENERGY CONSUMPTION; ECONOMIC GROWTH NEXUS	38	2,715	62.00	2010.2
6	PAYMENTS SUPPLY ENVIRONMENTAL SERVICES; ENVIRONMENTAL SERVICES PROGRAMS; ENVIRONMENTAL SERVICES; ECOSYSTEM SERVICES; HYDROLOGICAL SERVICES	16	1,944	121.50	2009.1
7	NETWORK DATA ENVELOPMENT ANALYSIS MODEL; NETWORK DATA ENVELOPMENT ANALYSIS; TWO-STAGE DATA ENVELOPMENT ANALYSIS; DATA ENVELOPMENT ANALYSIS (DEA); MEASURING ECONOMY-WIDE ENERGY EFFICIENCY PERFORMANCE	39	1,725	44.23	2011.4
8	ENVIRONMENTAL MANAGEMENT SYSTEMS; ENVIRONMENTAL MANAGEMENT SYSTEMS; ENVIRONMENTAL MANAGEMENT SYSTEMS; SUPPLY CHAIN MANAGEMENT; ENVIRONMENTAL MANAGEMENT SYSTEMS; ENVIRONMENTAL MANAGEMENT SYSTEMS; ENVIRONMENTAL MANAGEMENT SYSTEMS	20	1,541	77.05	2010.6
9	REAL EARNINGS MANAGEMENT ACTIVITIES; REAL EARNINGS MANAGEMENT; REAL EARNINGS MANAGEMENT; INCENTIVES; SOX INTERNAL CONTROL DEFICIENCIES; EQUITY RISK INCENTIVES	20	1,494	74.70	2010.1
10	WORK ENGAGEMENT; JOB ENGAGEMENT; EMPLOYEE ENGAGEMENT; JOB RESOURCES; JOB PERFORMANCE	10	1,449	144.90	2009.1
11	EVALUATING AMAZONS MECHANICAL TURK; AMAZONS MECHANICAL TURK; AMAZON MECHANICAL TURK; EXPERIMENTAL BEHAVIORAL RESEARCH; CONDUCTING BEHAVIORAL RESEARCH	13	1,430	110.00	2012.4
12	ESTIMATING STANDARD ERRORS; STANDARD ERRORS; FINANCE PANEL DATA SETS; ROBUST INFERENCE; SIMPLE FORMULAS	4	1,418	354.50	2010.3
13	GLOBAL TALENT MANAGEMENT; STRATEGIC TALENT MANAGEMENT; OPEN INNOVATION AFFECTS; OPEN INNOVATION; TALENT MANAGEMENT DECISION	38	1,360	35.79	2011.5
14	ONLINE PRODUCT REVIEWS; ONLINE CONSUMER REVIEWS; ONLINE HOTEL REVIEWS; ONLINE REVIEWS MATTER; ONLINE USER REVIEWS	17	1,326	78.00	2009.5
15	SUSTAINABILITY TRANSITIONS; CITIES SHAPE SOCIO-TECHNICAL TRANSITIONS; SOCIO-TECHNICAL TRANSITIONS (TO SUSTAINABILITY); TECHNOLOGICAL INNOVATION SYSTEMS; GOVERNING TRANSITIONS	18	1,223	67.94	2010.3
16	MULTIPLE CRITERIA METHODS; MULTIPLE CRITERIA ASSESSMENT; RANKING RESULTS APPLYING PARTICULAR MCDM METHODS;	18	1,124	62.44	2010.0

可以按照篇均论文被引数排序

能源消费关系; 可再生能源消费; 能耗高; 能耗; 经济增长的关系

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## 16篇高被引论文的相关度，篇均被引62次

CORE PAPERS IN PAYMENTS SUPPLY ENVIRONMENTAL SERVICES; ENVIRONMENTAL SERVICES PROGRAMS; ENVIRONMENTAL SERVICES; ECOSYSTEM SERVICES; HYDROLOGICAL SERVICES IN ECONOMICS & BUSINESS

Sorted by: Citations		Sort Again
1 - 16 (of 16)		Page 1 of 1
1 Citations: 325		RESEARCH FRONT WEB OF SCIENCE
Title:	DESIGNING PAYMENTS FOR ENVIRONMENTAL SERVICES IN THEORY AND PRACTICE: AN OVERVIEW OF THE ISSUES	
Authors:	ENGEL S. PAGIOLA S. MUNDER S	
Source:	ECOL ECON 65 (4): 663-674 MAY 1 2008	
Addresses:	ETH, Inst Environm Decis, CH-8092 Zurich, Switzerland. World Bank, Dept Environm, Washington, DC 20433 USA. Embrapa Amazonia Oriental, CIPOR, BR-66095780 Belen, Para, Brazil.	
Field:	ECONOMICS & BUSINESS	
2 Citations: 205		RESEARCH FRONT WEB OF SCIENCE
Title:	TAKING STOCK: A COMPARATIVE ANALYSIS OF PAYMENTS FOR ENVIRONMENTAL SERVICES PROGRAMS IN DEVELOPED AND DEVELOPING COUNTRIES	
Authors:	MUNDER S. ENGEL S. PAGIOLA S	
Source:	ECOL ECON 65 (4): 834-852 MAY 1 2008	
Addresses:	Embrapa Amazonia Oriental, CIPOR, BR-66095780 Belen, Para, Brazil. ETH, Inst Environm Decis, CH-8092 Zurich, Switzerland. World Bank, Dept Environm, Washington, DC 20433 USA.	
Field:	ECONOMICS & BUSINESS	
3 Citations: 141		RESEARCH FRONT WEB OF SCIENCE
Title:	ECOSYSTEM SERVICES: FROM EYE-OPENING METAPHOR TO COMPLEXITY BLINDER	
Authors:	NORGAARD EB	

# 追踪经济学与商学学科前沿——研究前沿

研究前沿的数据连续记录了分散的研究领域的发生、汇聚、发展、萎缩、消散和形成分支而后组织成为更新的研究活动节点

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RESEARCH FRONTS RANKINGS FOR RENEWABLE ENERGY CONSUMPTION

Sorted by: Citations

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	RENEWABLE ENERGY CONSUMPTION; ENERGY CONSUMPTION; ECONOMIC GROWTH RELATIONSHIP; ECONOMIC GROWTH NEXUS; ECONOMIC GROWTH	31	1,615	52.10	2009.5

1 - 1 (of 1) Page 1 of 1

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跨SOCIAL SCIENCES, GENERAL、ECONOMICS & BUSINESS等两个领域

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RESEARCH FRONTS RANKINGS FOR DIVERSITY ERODE SOCIAL COHESION

Sorted by: Citations SORT AGAN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	COMPARATIVE ECONOMIC DEVELOPMENT; DIVERSITY ERODE SOCIAL COHESION; GENERALIZED TRUST; ECONOMIC DEVELOPMENT; HUMAN GENETIC DIVERSITY	18	1,275	70.83	2009.6

1 - 1 (of 1) Page 1 of 1

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比较经济的发展；多样性削弱社会凝聚力；广义的信任；经济发展；遗传多样性

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## RESEARCH FRONTS RANKINGS IN ECONOMICS & BUSINESS

Sorted by: Mean Year

按出版年排

1 - 20 (of 259)

Page 1 of 13

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	Convertible bond issuers concurrent transactions, cash-settled convertible bonds, convertible bond financing, convertible bonds, convertible debt	6	23	3.83	2014.0
2	Geopolitical forecasting tournament, aggregated probability forecasts, psychological strategies, two reasons, extreme	2	8	4.00	2014.0
3	Inter-sectoral impact model intercomparison project ensemble, inter-sectoral impact model intercomparison project (ISI-MIP), multisectoral climate impact hotspots, climate change effects, climate change	7	78	11.14	2014.0
4	Smallholder livestock systems, livestock feeds, production systems, agricultural multi-market models, animal disease outbreaks	5	21	4.20	2014.0
5	Continuous time, ambiguous volatility, G-Brownian motion, backward stochastic differential equations driven, BSDEs driven	4	24	6.00	2013.8
6	Intermediary asset pricing, institutional theory, macroeconomic model, financial sector, momentum	3	35	11.67	2013.3
7	Reinventing marketing strategy, strategic marketing imperative, marketing departments, marketing back, marketing	7	104	14.86	2013.3
8	Motivating innovation, corporate innovation, innovation, firm boundaries matter, go public	5	88	17.60	2013.2
9	Air pollution control, life expectancy, air pollution, China's HJAI river policy, 545 US counties	2	64	32.00	2013.0
10	Analysis & commentary redesigning primary care, Milt Fix health care, strategic vision, patients needs, value	2	33	16.50	2013.0
11	Assessing regional virtual water flows, domestic virtual water trade, provincial water footprint, water footprints, China	2	28	14.00	2013.0
12	Charismatic transformational leadership research, destructive leadership, bad leaders, bad, critical assessment	2	45	22.50	2013.0
13	Climate change policy, climate change, already narrow science models, models tell us, grafting gross underestimation	2	35	17.50	2013.0
14	Climate change research, climate change analysis, climate change, AGMIP-Global Economic Model Intercomparison, Global Agro-Economic Model Comparison	15	379	25.27	2013.0
15	EU emissions trading scheme, emissions trading scheme, support schemes, support mitigation, support	3	38	12.67	2013.0
16	Group-level prospective sensemaking, top team meetings, emotional dynamics, ethical practices, organizing thoughts	2	24	12.00	2013.0
17	Inequality decomposition values, decomposition procedures, unified framework based, distributional analysis, Shapley value	2	24	12.00	2013.0
18	Institutional theory perspective, mainstream markets, market-mediated practice, taste regimes, consumer quests	2	23	11.50	2013.0

气候变化

空气污染管制;预期寿命;空气污染;我国淮河政策; 545个美国的县市

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WELCOME HELP RETURN TO MENU RETURN TO RANKINGS

CORE PAPERS IN AIR POLLUTION CONTROL; LIFE EXPECTANCY; AIR POLLUTION; CHINAS HUAI RIVER POLICY; 545 US COUNTIES IN ECONOMICS & BUSINESS

Sorted by: Citations SORT AGAIN

1 - 2 (of 2)

Page 1 of 1

1 Citations: 38

Title: EVIDENCE ON THE IMPACT OF SUSTAINED EXPOSURE TO AIR POLLUTION ON LIFE EXPECTANCY FROM CHINAS HUAI RIVER POLICY

Authors: CHEN YY, EBENSTEIN A, GREENSTONE M, LI HD

Source: PROC NATL ACAD SCI USA  
110 (32): 12936-12941 AUG 6 2013

Addresses: Peking Univ, Appl Econ Dept, Guanghua Sch Management, Beijing 100871, Peoples R China.  
Hebrew Univ Jerusalem, Dept Econ, IL-91905 Mt Scopus, Israel.  
MIT, Dept Econ, Cambridge, MA 02142 USA.  
Natl Bur Econ Res, Cambridge, MA 02138 USA.  
Tsinghua Univ, China Data Ctr, Beijing 100084, Peoples R China.  
Tsinghua Univ, Dept Econ, Sch Econ & Management, Beijing 100084, Peoples R China.

Field: ECONOMICS & BUSINESS

空气污染对寿命的影响

《美国国家科学院汇刊》

热点论文

跨SOCIAL SCIENCES, GENERAL、ECONOMICS & BUSINESS等两个领域

2 Citations: 26

Title: EFFECT OF AIR POLLUTION CONTROL ON LIFE EXPECTANCY IN THE UNITED STATES AN ANALYSIS OF 545 US COUNTIES FOR THE PERIOD FROM 2000 TO 2007

Authors: CORREIA AW, POPE CA, DOCKERY DW, HANG Y, EZZATI M, DOMINICI F

Source: EPIDEMIOLOGY  
24 (1): 23-31 JAN 2013

Addresses: Harvard Univ, Sch Publ Hlth, Dept Biostat, Boston, MA 02115 USA.  
Erishan Young Univ, Dept Econ, Provo, UT 84602 USA.  
Harvard Univ, Sch Publ Hlth, Dept Environm Hlth, Boston, MA 02115 USA.  
Harvard Univ, Sch Publ Hlth, Dept Epidemiol, Boston, MA 02115 USA.  
Univ London Imperial Coll Sci Technol & Med, MRC HPA Ctr Environm & Hlth, London, England.  
Univ London Imperial Coll Sci Technol & Med, Dept Epidemiol & Biostat, London, England.

Field: SOCIAL SCIENCES, GENERAL

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BY FIELD:	Select a topic from this field: (All Fields) <input type="button" value="GO"/>
OR	
BY NAME:	Enter up to five terms or phrases separated by the operators AND or OR to search. <i>Example: BREAST CANCER <a href="#">[more examples]</a></i> <input type="text" value="CLIMATE CHANGE"/> <input type="button" value="SEARCH"/> <input type="text" value="CLIMATE CHANGE"/>
<b>RESEARCH FRONTS EXAMPLES</b> <ul style="list-style-type: none"><li>• Enter <b>CANCER</b> to search for citation data in the areas of PROSTATE-CANCER SCREENING or BREAST CANCER GENE MUTATIONS.</li><li>• Enter <b>HEPATITIS*</b> to search for citation data in the areas of HEPATITIS-G VIRUS or HEPATITIS-A VIRUS.</li><li>• Enter <b>HIV-1</b> to search for citation data in the areas of HIV-1 ANTIRETROVIRAL THERAPY or HIV-1 DISEASE PROGRESSION.</li><li>• Enter <b>POLYMER*</b> to search for citation data in the areas of DNA-POLYMERASE CHAIN REACTION, POLYMER LIGHT-EMITTING CELLS or POLYSTYRENE BLOCK POLYMERS.</li></ul>	

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输入: CLIMATE CHANGE

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## 68组气候变化研究前沿

### RESEARCH FRONTS RANKINGS FOR CLIMATE CHANGE

Sorted by: Citations

1 - 20 (of 66)



Page 1 of 5

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	COMPARATIVELY HIGH GREENHOUSE GAS EMISSIONS; KEEP GLOBAL MEAN TEMPERATURE, 2 DEGREES C; CLIMATE CHANGE RESEARCH; REPRESENTATIVE CONCENTRATION PATHWAYS	6	2,502	417.00	2011.0
2	EARLY TWENTY-FIRST-CENTURY GLACIER MASS CHANGE; TWENTY-FIRST CENTURY GLACIER MASS CHANGES; HIMALAYAN GLACIERS; REGION-WIDE GLACIER MASS BALANCES; CLIMATE CHANGE WILL AFFECT	20	1,651	82.55	2011.8
3	GLOBAL CLIMATE CHANGE; PERSONALLY RELEVANT CLIMATE CHANGE; CLIMATE CHANGE KNOWLEDGE; ANTHROPOGENIC CLIMATE CHANGE; CLIMATE CHANGE	30	1,473	49.10	2011.2
4	DECADAL CLIMATE PREDICTION; INITIALIZING DECADAL CLIMATE PREDICTIONS; SHORT-TERM CLIMATE CHANGE PREDICTION; DECADAL PREDICTION CASE; DECADAL PREDICTION SKILL	13	1,358	104.46	2010.8
5	PERMAFROST CARBON RELEASE; PERMAFROST CARBON; PERMAFROST CARBON-CLIMATE FEEDBACKS ACCELERATE GLOBAL WARMING; GLOBAL CARBON CYCLE; CLIMATE CHANGE	7	1,326	189.43	2010.1
6	CLIMATE CHANGE IMPACTS; CLIMATE CHANGE SCENARIOS; CLIMATE CHANGE, PROJECTED MAXIMUM FISHERIES CATCH POTENTIAL; MAXIMUM FISHERIES CATCH POTENTIAL	8	938	117.25	2009.8
7	SURFACE WARMING PATTERNS DRIVE TROPICAL RAINFALL PATTERN RESPONSES; TWENTIETH CENTURY TROPICAL SEA SURFACE TEMPERATURE TRENDS; WESTERN TROPICAL PACIFIC SEA LEVEL TRENDS; TROPICAL INDO-PACIFIC CLIMATE CHANGE; TROPICAL INDO-PACIFIC WARMING	19	778	40.95	2012.5
8	MANAGED RELOCATION; CLIMATE CHANGE; VIABLE CONSERVATION STRATEGY, 22 YEARS; ASSISTED COLONIZATION	5	748	149.60	2009.6
9	SHRIMP IMMUNE RESPONSES; INSECT IMMUNE SYSTEM; INSECT CELLULAR IMMUNE RESPONSE; CLIMATE CHANGE; INFER SPECIES RESPONSES	11	738	67.09	2011.6
10	CLIMATE VARIABILITY; RAINFALL VARIABILITY; HIGH-QUALITY SPATIAL CLIMATE DATA-SETS; CLIMATE CHANGE; SOUTHEASTERN AUSTRALIA	5	736	147.20	2009.2
11	CLIMATE CHANGE ADAPTATION; CLIMATE CHANGE; GLOBAL ENVIRONMENTAL CHANGE II; COMPARING NATIONAL ADAPTATION STRATEGIES; INFORMING ADAPTATION RESPONSES	9	718	79.78	2010.7
12	CLIMATE CHANGE, DISENTANGLING ENVIRONMENTAL; GENETIC RESPONSES; WARMING WORLD; ASSESSING	2	705	352.50	2008.0
13	TERRESTRIAL NITROGEN FEEDBACKS MAY ACCELERATE FUTURE CLIMATE CHANGE; TERRESTRIAL CARBON CYCLE; NITROGEN CYCLE DYNAMICS; 0-CN LAND SURFACE MODEL; CLIMATE-CARBON CYCLE FEEDBACKS	6	643	107.17	2009.3
14	ARMED CIVIL CONFLICT; CLIMATE CHANGE DRIVE LAND-USE CONFLICTS; CLIMATE VARIABILITY; CIVIL CONFLICT; CLIMATE CHANGE	20	614	30.70	2012.1
15	SOUTHERN HEMISPHERE CIRCULATION CHANGE; SOUTHERN HEMISPHERE SURFACE CLIMATE CHANGE; SOUTHERN HEMISPHERE WESTERLY JET; STRATOSPHERIC OZONE DEPLETION; STRATOSPHERIC OZONE RECOVERY	7	591	84.43	2010.6
16	CLIMATE CHANGE; THOREAUS CONCORD; THOREAUS WOODS; COMMUNITY PERSPECTIVE; FLORAL ABUNDANCE	3	533	177.67	2008.0

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## RESEARCH FRONTS RANKINGS FOR INNOVATION SYSTEMS

Sorted by: Citations [SORT AGAIN]

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	SUSTAINABILITY TRANSITIONS; TECHNOLOGICAL INNOVATION SYSTEMS; SOCIO-TECHNICAL TRANSITIONS (TO SUSTAINABILITY); CITIES SHAPE SOCIO-TECHNICAL TRANSITIONS; INNOVATION SYSTEMS	16	1,094	68.38	2009.5

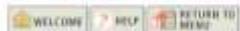
1 - 1 (of 1) Page 1 of 1

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可持续性转变;技术创新系统;社会技术转换(可持续);城市形态社会技术转换;创新系统

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## RESEARCH FRONTS RANKINGS FOR TECHNOLOGICAL DYNAMISM

Sorted by: Citations [SORT AGAIN]

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	GLOBAL PRODUCTION NETWORKS; REGIONAL TECHNOLOGICAL DYNAMISM; REGIONAL DEVELOPMENT; R&D NETWORKS; TECHNOLOGICAL DYNAMISM	5	284	56.80	2009.6

1 - 1 (of 1) Page 1 of 1

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全球生产网络;区域技术活力;区域开发;研发网络;技术活力

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RESEARCH FRONTS RANKINGS FOR GREEN SUPPLY CHAIN

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	GREEN SUPPLY CHAIN MANAGEMENT LITERATURE; GREEN SUPPLY CHAIN MANAGEMENT PRACTICES IMPLEMENTATION; SUSTAINABLE SUPPLY CHAIN MANAGEMENT; GREEN SUPPLY CHAIN OPTIMISATION; GREEN SUPPLIER SELECTION MODEL	14	782	55.86	2009.2

1 - 1 (of 1) Page 1 of 1

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RESEARCH FRONTS RANKINGS FOR GLOBAL SUPPLY CHAIN RISK MANAGEMENT

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	SOCIAL RATINGS ACTUALLY MEASURE CORPORATE SOCIAL RESPONSIBILITY; CORPORATE SOCIAL RESPONSIBILITY REPORTING; STRATEGIC CORPORATE SOCIAL RESPONSIBILITY; GLOBAL SUPPLY CHAIN RISK MANAGEMENT; MEASURING CORPORATE SOCIAL PERFORMANCE	43	2,263	52.63	2009.5

1 - 1 (of 1) Page 1 of 1

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Citation Rankings:	<ul style="list-style-type: none"><li>- <a href="#">Scientists</a></li><li>- <a href="#">Institutions</a></li><li>- <a href="#">Countries/Territories</a></li><li>- <a href="#">Journals</a></li></ul>	<b>Commentary:</b> <a href="#">IN-CITES</a> <a href="#">SPECIAL TOPICS</a> <a href="#">SCIENCE-WATCH</a>
Most Cited Papers:	<ul style="list-style-type: none"><li>- <a href="#">Highly Cited Papers (last 10 years)</a></li><li>- <a href="#">Hot Papers (last 2 years)</a></li></ul>	
Citation Analysis:	<ul style="list-style-type: none"><li>- <a href="#">Baselines</a></li><li>- <a href="#">Research Fronts</a></li></ul>	

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<b>BY FIELD:</b>	Select a topic from this field:	Social Sciences, general	GO
<b>OR</b>		(All Fields)	
<b>BY NAME:</b>	Enter up to five terms or phrases Example: BREAST	Agricultural Sciences	Enter terms AND or OR to search.
		Biology & Biochemistry	
		Chemistry	
		Clinical Medicine	
		Computer Science	
		Economics & Business	
		Engineering	
		Environment/Ecology	
		Geosciences	
		Immunology	
		Materials Science	
		Mathematics	
		Microbiology	
		Molecular Biology & Genetics	
		Multidisciplinary	
		Neuroscience & Behavior	
		Pharmacology & Toxicology	
		Physics	
		Plant & Animal Science	
		Psychiatry/Psychology	
		Social Sciences, general	
		Space Science	

• Enter **CANCER** to search for citation data in the areas of  
• Enter **HEPATITIS\*** to search for citation data in the areas of  
• Enter **HIV-1** to search for citation data in the areas of  
• Enter **POLYMER\*** to search for citation data in the areas of

#### RESEARCH FRONTS EXAMPLES

SCREENING OF BREAST CANCER GENE MUTATIONS.  
US or HEPATITIS-A VIRUS.  
THERAPY OF HIV-1 DISEASE PROGRESSION.  
FREE RADICAL CHAIN REACTION, POLYMER LIGHT-EMITTING CELLS or POLYSTYRENE BLOCK POLYMERS.

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## 1033组社会科学研究前沿

### RESEARCH FRONTS RANKINGS IN SOCIAL SCIENCES, GENERAL

Sorted by: Citations						SORT AGAIN	
View	Fronts	Papers	Citations	Citations Per Paper	Mean Year		
1	<a href="#">View</a> <a href="#">Full</a> REDUCING OLDER ADULTS SEDENTARY TIME; ADULTS SEDENTARY TIME; OBJECTIVELY MEASURED SEDENTARY TIME; SEDENTARY TIME; ADULTS SEDENTARY BEHAVIOR DETERMINANTS	35	5,811	166.03	2010.8		
2	<a href="#">View</a> <a href="#">Full</a> METFORMIN SELECTIVELY TARGETS CANCER STEM CELLS; CANCER RISK; INCIDENT BREAST CANCER; BREAST CANCER CLINICAL TRIALS; CANCER PATIENTS	48	5,596	116.58	2011.1		
3	<a href="#">View</a> <a href="#">Full</a> ALTERNATIVE PROSTATE-SPECIFIC ANTIGEN-BASED PROSTATE CANCER SCREENING STRATEGIES MODEL ESTIMATES; PROSTATE CANCER SCREENING; EARLY PROSTATE CANCER; OVARIAN CANCER SCREENING TRIAL; PROSTATE CANCER BASED	16	5,169	323.06	2011.7		
4	<a href="#">View</a> <a href="#">Full</a> HUMAN PAPILLOMAVIRUS-RELATED OROPHARYNGEAL CANCER; ORAL HUMAN PAPILLOMAVIRUS (HPV) 4 YEARS; HUMAN PAPILLOMAVIRUS (HPV) POSITIVE TONSILLAR CARCINOMA; HUMAN PAPILLOMAVIRUS TYPE 16-NEGATIVE HEAD; OROPHARYNGEAL CANCER HPV STATUS DETERMINATION	23	4,854	211.04	2010.4		
5	<a href="#">View</a> <a href="#">Full</a> TESTING INDIRECT EFFECTS; COMPARING INDIRECT EFFECTS; MULTIPLE MEDIATOR MODELS; COMPLEX MODELS; RESAMPLING STRATEGIES	3	4,756	1585.33	2008.7		
6	<a href="#">View</a> <a href="#">Full</a> GRADE GUIDELINES 6; GRADE GUIDELINES; CLINICAL PRACTICE GUIDELINES; CLINICAL GUIDELINES; EFFECTIVE PUBLIC HEALTH PRACTICE PROJECT QUALITY ASSESSMENT TOOL	37	4,284	115.78	2011.3		
7	<a href="#">View</a> <a href="#">Full</a> MECHANICALLY VENTILATED CRITICALLY ILL PATIENTS CARED; VENTILATED CRITICALLY ILL PATIENTS; CRITICALLY ILL PATIENTS; EARLY INTENSIVE CARE SEDATION; EARLY INTENSIVE CARE UNIT MOBILITY THERAPY	24	3,887	161.96	2010.9		
8	<a href="#">View</a> <a href="#">Full</a> PALLIATIVE CARE CONSULTATION TEAMS CUT HOSPITAL COSTS; US HOSPITAL PALLIATIVE CARE CONSULTATION PROGRAMS; EARLY PALLIATIVE CARE; PALLIATIVE CARE CONSULTATION; CANCER CARE	29	3,828	132.00	2011.0		
9	<a href="#">View</a> <a href="#">Full</a> GLOBAL SEA LEVEL ACCELERATION STARTED; GLOBAL SEA LEVEL LINKED; GLOBAL SEA LEVEL RECONSTRUCTIONS; ESTIMATING GLOBAL OCEAN HEAT CONTENT CHANGES; CONTEMPORARY SEA LEVEL RISE	46	3,697	80.37	2011.5		
10	<a href="#">View</a> <a href="#">Full</a> HABENULAR ALPHA 5 NICOTINIC RECEPTOR SUBUNIT SIGNALING CONTROLS NICOTINE INTAKE; ACETYLCHOLINE RECEPTOR (ACHR) ALPHA 5 SUBUNIT VARIANT; NICOTINIC ACETYLCHOLINE RECEPTOR SUBUNIT GENES; NICOTINIC RECEPTOR GENE VARIANTS; ALPHA-5/ALPHA-3 NICOTINIC RECP	12	3,293	274.42	2009.2		
11	<a href="#">View</a> <a href="#">Full</a> PRIMARY CERVICAL CANCER SCREENING TEST; ABNORMAL CERVICAL CANCER SCREENING TESTS; PRIMARY CERVICAL CANCER SCREENING; CERVICAL CANCER SCREENING; PRIMARY HUMAN PAPILLOMAVIRUS SCREENING	25	3,119	124.76	2010.3		
12	<a href="#">View</a> <a href="#">Full</a> KIDNEY DISEASE POPULATION COHORTS; CHRONIC KIDNEY DISEASE; KIDNEY DISEASE; ADVERSE KIDNEY OUTCOMES; END-STAGE RENAL DISEASE	18	2,983	165.72	2010.8		
13	<a href="#">View</a> <a href="#">Full</a> BIVALENT HUMAN PAPILLOMAVIRUS L1 VIRUS-LIKE PARTICLE VACCINE; HUMAN PAPILLOMAVIRUS (HPV)-16/18 AS04-ADJUVANTED VACCINE; PHYSICIANS HUMAN PAPILLOMAVIRUS VACCINE RECOMMENDATIONS; NATIONAL HUMAN PAPILLOMAVIRUS VACCINATION PROGRAMME; HUMAN PAPILLOMAVIRUS	28	2,916	104.14	2011.4		
14	<a href="#">View</a> <a href="#">Full</a> MATERNAL EARLY PREGNANCY VITAMIN D STATUS; LOW SERUM VITAMIN D LEVELS; SERUM VITAMIN D LEVELS; MATERNAL VITAMIN D STATUS; MATERNAL VITAMIN D DEFICIENCY	23	2,798	121.65	2010.1		

# Transdisciplinary Graduate Education and Training in Nutrition and Family Sciences or Child Development or Related Fields to Prevent Childhood Obesity

Opp ID: 123959 | Training, Scholarship, or Fellowship Research | Last edited on 21 May 2014

Full Details

## 基金案例：儿童肥胖

Website <http://www.nifa.usda.gov/funding/rfas/afri.html>

Sponsor United States Department of Agriculture (USDA)  
National Institute of Food and Agriculture (NIFA)  
Agriculture and Food Research Initiative (AFRI)  
Childhood Obesity Prevention Challenge Area  
Sponsor ID: A2121

Amount **Upper \$5,000,000 USD**  
Standard grants must not exceed \$1 million per year (\$5 million total, including indirect costs) for project periods of up to five years.  
  
As part of the total grant request, the contribution to the graduate stipend is...  
[more »](#)

Requirements Academic Institution  
Commercial  
Government  
New Faculty/New Investigator  
Nonprofit  
Ph.D./M.D./Other Professional

Citizenship or Residency United States

Activity location United States

Abstract Applicants must address the **development** of innovative, **research**-based graduate education and training activities focused on obesity prevention in children using the knowledge base of nutrition and the related knowledge...  
[more »](#)

Eligibility Eligible applicants include  
- state agricultural experiment stations;  
- colleges and universities (including junior colleges offering associate degrees or higher);  
- university **research** foundations;  
- other **research**... [more »](#)

Keywords

## 5百万美金

Track 0 others

Set to Active 0 others

营养学和家庭科学的跨学科研究生教育和培训或儿童发展以及相关领域，以防止儿童肥胖项目

是由农业部美国农业部 (USDA)、National Institute of Food and Agriculture (NIFA) 粮食和农业研究所 (NIFA)、Agriculture and Food Research Initiative (AFRI) 农业和食品研究计划 (AFRI)、Childhood Obesity Prevention Challenge Area 儿童肥胖防治领域的挑战等四个基金会资助。资助总额为**\$5,000,000 USD**。该

项目认为食品是肥胖的发展的一个组成部分，所有申请项目应针对食品消费的某些方面。申请将优先考虑可持续的干预措施，并涉及低收入人群资格的 USDA 计划项目 (如，膨化食品和营养教育项目，WIC 项目)。

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OR	
BY NAME:	Enter up to five terms or phrases separated by the operators AND or OR to search. Example: BREAST CANCER <a href="#">(more examples)</a> <input type="text" value="Childhood Obesity"/> <input type="button" value="SEARCH"/>

## RESEARCH FRONTS EXAMPLES

- Enter **CANCER** to search for citation data in the areas of PROSTATE-CANCER SCREENING or BREAST CANCER GENE MUTATIONS.
- Enter **HEPATITIS\*** to search for citation data in the areas of HEPATITIS-G VIRUS or HEPATITIS-A VIRUS.
- Enter **HIV-1** to search for citation data in the areas of HIV-1 ANTIRETROVIRAL THERAPY or HIV-1 DISEASE PROGRESSION.
- Enter **POLYMER\*** to search for citation data in the areas of RDNA-POLYMERASE CHAIN REACTION, POLYMER LIGHT-EMITTING CELLS or POLYSTYRENE BLOCK POLYMERS.

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输入Childhood Obesity

了解儿童肥胖跨学科研究情况

## 148篇儿童肥胖高被引论文，2篇热点论文

### 1. Incidence of **Childhood Obesity** in the United States

作者: Cunningham, Solveig A.; Kramer, Michael R.; Narayan, K. M. Venkat  
NEW ENGLAND JOURNAL OF MEDICINE 卷: 370 期: 5 页: 403-411 出版年: JAN 30 2014

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(来自 Web of Science 的核心合集)

热点论文

高被引论文

# 追踪儿童肥胖跨学科——研究前沿

## 3组有关儿童肥胖研究前沿

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RESEARCH FRONTS RANKINGS FOR CHILDHOOD OBESITY

Sorted by: Citations [SORT AGAIN]

1 - 3 (of 3) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	CHILDHOOD OBESITY; OBESITY; TELEVISION CONTENT TYPE; TELEVISION; FAST-FOOD RESTAURANT ADVERTISING	3	181	60.33	2009.0
2	US CHILDHOOD OBESITY; US PRESCHOOL CHILDREN; OBESITY; RISING SOCIAL INEQUALITIES; ETHNIC GROUPS	2	167	83.50	2009.5
3	COMMUNITY GARDEN-BASED OBESITY PREVENTION PROGRAM; CHILDHOOD OBESITY PREVENTION; ADDRESS CHILDHOOD OBESITY; CHILDHOOD OBESITY; LATINO COMMUNITY	12	53	4.42	2013.0

1 - 3 (of 3) Page 1 of 1

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儿童肥胖，肥胖，电视内容类型，电视，快餐店广告

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RESEARCH FRONTS RANKINGS FOR CHILDHOOD OBESITY

Sorted by: Citations [SORT AGAIN]

1 - 3 (of 3) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	OVERWEIGHT PREVALENCE TRENDS; CHILDHOOD OBESITY; CHILDHOOD OVERWEIGHT; OBESITY EPIDEMIC; OBESITY	4	430	107.50	2010.8
2	US CHILDHOOD OBESITY; US PRESCHOOL CHILDREN; OBESITY; RISING SOCIAL INEQUALITIES; DIFFERENT RACIAL	2	222	111.00	2009.5
3	LIMIT RANDOMISED TRIAL; RANDOMISED EVIDENCE; ANTENATAL LIFESTYLE ADVICE; CHILDHOOD OBESITY; UNITED STATES	3	150	50.00	2013.3

1 - 3 (of 3) Page 1 of 1

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3月5日

# 追踪儿童肥胖跨学科——研究前沿

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WELCOME HELP RETURN TO HOME RETURN TO RANKINGS

跨SOCIAL SCIENCES, GENERAL、ECONOMICS & BUSINESS等两个领域

CORE PAPERS IN CHILDHOOD OBESITY; OBESITY; TELEVISION CONTENT TYPE; TELEVISION; FAST-FOOD RESTAURANT ADVERTISING

Sorted by: Citations SORT AGAM

1 - 3 (of 3)

Page 1 of 1

1 Citations: 80

Title: A CRISIS IN THE MARKETPLACE: HOW FOOD MARKETING CONTRIBUTES TO CHILDHOOD OBESITY AND WHAT CAN BE DONE

Authors: HARRIS JL; POMERANZ JL; LOBSTEIN T; BROWNELL KD

Source: ANNU REV PUBLIC HEALTH  
30: 211-225 2009

Addresses: Yale Univ, Rudd Ctr Food Policy & Obes, New Haven, CT 06520 USA.  
Ist Obes TaskForce, London NW1 2NR, England.

Field: SOCIAL SCIENCES, GENERAL

2 Citations: 61

Title: FAST-FOOD RESTAURANT ADVERTISING ON TELEVISION AND ITS INFLUENCE ON CHILDHOOD OBESITY

Authors: CHOU SY; RASHAD I; GROSSMAN M

Source: J LAW ECON  
51 (4): 599-618 NOV 2008

Addresses: Lehigh Univ, Bethlehem, PA 18015 USA.  
Georgia State Univ, Atlanta, GA 30303 USA.  
CUNY, New York, NY 10021 USA.

Field: ECONOMICS & BUSINESS

3 Citations: 40

Title: ASSOCIATIONS OF TELEVISION CONTENT TYPE AND OBESITY IN CHILDREN

Authors: ZIMMERMAN FJ; BELL JF

Source: AMER J PUBLIC HEALTH  
100 (2): 334-340 FEB 2010

儿童肥胖，肥胖，电视内容  
类型，电视，快餐店广告

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## 6组有关儿童肥胖研究前沿

### RESEARCH FRONTS RANKINGS FOR CHILDHOOD OBESITY

Sorted by: Citations [SORT AGAIN]

1 - 6 (of 6) [Navigation icons] Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	CHILDHOOD OBESITY; OBESITY STIGMA; TELEVISION FOOD ADVERTISING	19	1,110	58.42	2009.3
2	FUTURE ADULT CORONARY HEART DISEASE; CHILDHOOD BODY-MASS INDEX; CARDIOVASCULAR RISK FACTORS; CHILDHOOD OBESITY; PREMATURE DEATH	3	710	236.67	2008.0
3	SCHOOL-BASED PHYSICAL ACTIVITY INTERVENTIONS; PHYSICAL ACTIVITY LEVELS; SCHOOL-BASED INTERVENTIONS; PREVENT CHILDHOOD OBESITY; OBESITY GUIDANCE PRODUCED	2	189	94.50	2009.0
4	CHILDHOOD ADIPOSITY; CARDIOVASCULAR RISK FACTORS; ADULT ADIPOSITY; CHILDHOOD OBESITY; ADOLESCENT BMI TRAJECTORY	3	141	47.00	2011.6
5	CHILDHOOD OBESITY; FAST FOOD RESTAURANTS; MEDICAL CARE COSTS; INSTRUMENTAL VARIABLES APPROACH; WEIGHT GAIN	3	72	24.00	2010.6
6	COMMUNITY GARDEN-BASED OBESITY PREVENTION PROGRAM; CHILDHOOD OBESITY PREVENTION; ADDRESS CHILDHOOD OBESITY; LATINO COMMUNITY; LATINO CHILDREN'S PHYSICAL HEALTH	13	52	4.00	2013.0

1 - 6 (of 6) [Navigation icons] Page 1 of 1

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儿童肥胖，肥胖污名，电视食品广告

# 追踪儿童肥胖跨学科——研究前沿

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## CORE PAPERS IN CHILDHOOD OBESITY; OBESITY STIGMA; TELEVISION FOOD ADVERTISING IN SOCIAL SCIENCES, GENERAL

Sorted by: Citations SORT AGAIN	
1 - 19 (of 19)	Page 1 of 1
1 Citations: 223	RESEARCH FRONT WEB OF SCIENCE
<b>Title:</b>	THE STIGMA OF OBESITY: A REVIEW AND UPDATE
<b>Authors:</b>	PUHL RM; HEUER CA
<b>Source:</b>	<a href="#">OBESITY</a> 17 (5): 941-964 MAY 2009
<b>Addresses:</b>	<a href="#">Yale Univ.</a> , Rudd Ctr Food Policy & Obes, New Haven, CT 06520 USA.
<b>Field:</b>	<a href="#">BIOLOGY &amp; BIOCHEMISTRY</a>
2 Citations: 206	RESEARCH FRONT WEB OF SCIENCE
<b>Title:</b>	STIGMA, OBESITY, AND THE HEALTH OF THE NATION'S CHILDREN
<b>Authors:</b>	PUHL RM; LATNER JD
<b>Source:</b>	<a href="#">PSYCHOL BULL</a> 133 (4): 557-580 JUL 2007
<b>Addresses:</b>	<a href="#">Yale Univ.</a> , Rudd Ctr Food Policy & Obes, 309 Edwards St, New Haven, CT 06520 USA. <a href="#">Yale Univ.</a> , Rudd Ctr Food Policy & Obes, New Haven, CT 06520 USA. <a href="#">Univ Hawaii Manoa</a> , Dept Psychol, Honolulu, HI 96822 USA.
<b>Field:</b>	<a href="#">PSYCHIATRY/PSYCHOLOGY</a>
3 Citations: 87	RESEARCH FRONT WEB OF SCIENCE
<b>Title:</b>	THE PERILS OF IGNORING HISTORY: BIG TOBACCO PLAYED DIRTY AND MILLIONS DIED. HOW SIMILAR IS BIG FOOD ?
<b>Authors:</b>	<a href="#">BROWNELL KD</a> ; <a href="#">WARNER KE</a>

# 追踪儿童肥胖跨学科——研究前沿

- **CHILDHOOD OBESITY; OBESITY INTERVENTION STRATEGIES; GLOBAL OBESITY PANDEMIC; TELEVISION FOOD ADVERTISING; FOOD PRICES (20篇)**
- 儿童肥胖，肥胖干预策略，全球肥胖流行病，电视食品广告，食品价格

3 Citation: 66 [Cite](#) [Research Front](#) [Ref of Science](#)

Title: THE PERILS OF IGNORING HISTORY: BIG TOBACCO PLAYED DIRTY AND MILLIONS DIED: HOW SIMILAR IS BIG FOOD? <

Authors: [BROOKHILL KD](#), [WAFNER KE](#) <

Source: [MILBANK QUART](#) <

37 (1) 258-294 MAR 2009 <

Addresses: [Yale Univ](#), [Fuld Cr Food Policy & Obs](#), 309 Edwards Bldg, New Haven, CT 06520 USA <

[Yale Univ](#), [Fuld Cr Food Policy & Obs](#), New Haven, CT 06520 USA <

[Ther Michalek](#), [Ann Arbor, MI 48109 USA](#) <

Field: [SOCIAL SCIENCES, GENERAL](#) <

2 Citation: 64 [Cite](#) [Research Front](#) [Ref of Science](#)

Title: FRIMING EFFECTS OF TELEVISION FOOD ADVERTISING ON EATING BEHAVIOR <

Authors: [HARRIS JL](#), [RAGHIA](#), [BROWNELL KD](#) <

Source: [HEALTH PSYCHOL](#) <

21 (4) 404-413 JUL 2009 <

 江苏教育学院  
中国知网  
地址: [Yale Univ](#), [Dept Psychol](#), [POB 208205](#), [New Haven, CT 06520 USA](#) <

[Yale Univ](#), [Dept Psychol](#), [New Haven, CT 06520 USA](#) <

Field: [PSYCHIATRY, PSYCHOLOGY](#) <

3 Citation: 63 [Cite](#) [Research Front](#) [Ref of Science](#)

Title: OBESITY 1: THE GLOBAL OBESITY PANDEMIC SHAPED BY

3 Citation: 63 [Cite](#) [Research Front](#) [Ref of Science](#)

Title: OBESITY 1: THE GLOBAL OBESITY PANDEMIC SHAPED BY GLOBAL DRIVERS AND LOCAL ENVIRONMENTS <

Authors: [SWINBURN BA](#), [SACKS G](#), [HALL KD](#), [MCPHERSON K](#), [FINESOOD DT](#), [MOODIE ML](#), [GORTMAKER SL](#) <

Source: [LANCET](#) <

378 (9793) 804-814 AUG-SEP 2011 <

Addresses: [Curtin Univ](#), [WHO Collaborating Ctr Obes Prevent](#), [Melbourne, Vic 3125, Australia](#) <

[NICHD](#), [NIH](#), [Washington, DC USA](#) <

[Univ Oxford](#), [New Coll](#), [Oxford, England](#) <

[Simon Fraser Univ](#), [Dept Biomed Physiol & Kinesiol](#), [Vancouver, BC, Canada](#) <

[Harvard Univ](#), [Dept Soc Human Dev & HBS](#), [Harvard Sch Publ Hlth](#), [Boston, MA 02115 USA](#) <

Field: [CLINICAL MEDICINE](#) <

4 Citation: 56 [Cite](#) [Research Front](#) [Ref of Science](#)

Title: OBESITY 2: HEALTH AND ECONOMIC BURDEN OF THE PROJECTED OBESITY TRENDS IN THE USA AND THE UK <

Authors: [WANG YC](#), [MCPHERSON K](#), [MARSH T](#), [GORTMAKER SL](#), [BROOKHILL KD](#) <

Source: [LANCET](#) <

378 (9793) 815-825 AUG-SEP 2011 <

Addresses: [Columbia Univ](#), [Dept Hlth Policy & Management](#), [Malman Sch Publ Hlth](#), [New York, NY 10032 USA](#) <

[Univ Oxford](#), [New Coll](#), [Oxford, England](#) <

[Harvard Univ](#), [Dept Soc Human Dev & HBS](#), [Harvard Sch Publ Hlth](#), [Boston, MA 02115 USA](#) <

[Hlth Hspt Forum](#), [London, England](#) <

Field: [CLINICAL MEDICINE](#) <

5 Citation: 55 [Cite](#) [Research Front](#) [Ref of Science](#)

Title: FOOD PRICES AND OBESITY: EVIDENCE AND POLICY IMPLICATIONS FOR TAXES AND SUBSIDIES <

Authors: [POWELL LM](#), [CHALOUPEK FJ](#) <

# 如何追踪社会科学学科前沿——研究前沿

临终关怀咨询团队降低医院的成本,临终关怀咨询项目;早期临终关怀;临终关怀干预;临终关怀

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RESEARCH FRONTS RANKINGS FOR PALLIATIVE CARE CONSULTATION TEAMS CUT HOSPITAL COSTS

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	PALLIATIVE CARE CONSULTATION TEAMS CUT HOSPITAL COSTS; US HOSPITAL PALLIATIVE CARE CONSULTATION PROGRAMS; EARLY PALLIATIVE CARE; PALLIATIVE CARE INTERVENTION; PALLIATIVE CARE	27	3,092	114.52	2010.8

1 - 1 (of 1) Page 1 of 1

跨SOCIAL SCIENCES, GENERAL、CLINICAL MEDICINE等两个研究领域

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WELCOME HELP RETURN TO MENU

RESEARCH FRONTS RANKINGS FOR FRAIL ELDERLY PEOPLE

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	FRAILTY CONSENSUS; FRAIL ELDERLY PEOPLE; ELDERLY JAPANESE PEOPLE; GERONTOPOLE FRAILTY SCREENING TOOL (GFST); OLDER NURSING HOME RESIDENTS	21	1,696	80.76	2011.7

1 - 1 (of 1) Page 1 of 1

跨SOCIAL SCIENCES, GENERAL、CLINICAL MEDICINE、AGRICULTURAL SCIENCES等三个研究领域

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RESEARCH FRONTS RANKINGS FOR REDUCING OLDER ADULTS SEDENTARY TIME

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	REDUCING OLDER ADULTS SEDENTARY TIME; ADULTS SEDENTARY TIME; OBJECTIVELY MEASURED SEDENTARY TIME; ADULTS SEDENTARY BEHAVIOR DETERMINANTS; SEDENTARY TIME	36	4,813	133.69	2010.7

跨SOCIAL SCIENCES, GENERAL、CLINICAL MEDICINE等两个研究领域

# 如何追踪社会科学学科前沿——研究前沿

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美国心脏协会建议减少钠;膳食钠的摄入,减少全球人口盐摄入量;膳食盐摄入量,估计24小时尿钠排泄

RESEARCH FRONTS RANKINGS FOR DIETARY SODIUM INTAKE

Sorted by: Citations

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	AMERICAN HEART ASSOCIATION SODIUM REDUCTION RECOMMENDATIONS, DIETARY SODIUM INTAKE, REDUCING POPULATION SALT INTAKE WORLDWIDE; DIETARY SALT INTAKE, ESTIMATING 24-HOUR URINARY SODIUM EXCRETION	20	1,879	93.95	2011.1

跨SOCIAL SCIENCES, GENERAL、CLINICAL MEDICINE等两个研究领域

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乳腺癌幸存者;乳腺癌的诊断;成人癌症幸存者;大肠癌症幸存者;癌症幸存者

RESEARCH FRONTS RANKINGS FOR BREAST CANCER SURVIVORS

跨SOCIAL SCIENCES, GENERAL、CLINICAL MEDICINE、PSYCHIATRY/PSYCHOLOGY等三个研究领域

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	BREAST CANCER SURVIVORS; BREAST CANCER DIAGNOSIS; ADULT CANCER SURVIVORS; COLORECTAL CANCER SURVIVORS; CANCER SURVIVORS	16	1,654	103.38	2010.1
2	BREAST CANCER SURVIVORS 20 YEARS; CHEMOTHERAPY-TREATED BREAST CANCER SURVIVORS; BREAST CANCER; CANCER TASK FORCE RECOMMENDATIONS; CANCER	6	207	34.50	2012.3

乳腺癌存活20年;化疗治疗乳腺癌幸存者;乳腺癌;癌症专责小组的建议;癌症

跨CLINICAL MEDICINE、NEUROSCIENCE & BEHAVIOR等两个研究领域

# 追踪传播学跨学科——研究前沿

社交媒体

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RESEARCH FRONTS RANKINGS FOR SOCIAL MEDIA;

Sorted by: Citations

1 - 3 (of 3) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	SOCIAL MEDIA TECHNOLOGY; SOCIAL MEDIA; NEWS MEDIA ENABLE ESTIMATION; TWITTER MOOD; TWITTER POWER	16	442	27.62	2011.2
2	SOCIAL MEDIA; NEW HYBRID ELEMENT; FUNCTIONAL BUILDING BLOCKS; PROMOTION MIX; CHALLENGES	3	270	90.00	2010.0
3	GOVERNMENT SOCIAL MEDIA USAGE; SOCIAL MEDIA; ANTI-CORRUPTION TOOLS; POLICES; CHALLENGES	2	41	20.50	2011.0

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政府的社会媒体使用，社交媒体，反腐败工具，政策，挑战

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RESEARCH FRONTS RANKINGS FOR NEWS MEDIA ENABLE ESTIMATION

Sorted by: Citations

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	SOCIAL MEDIA TECHNOLOGY; SOCIAL MEDIA; NEWS MEDIA ENABLE ESTIMATION; TWITTER MOOD; TWITTER POWER	16	442	27.62	2011.2

跨: COMPUTER SCIENCE; CLINICAL MEDICINE; PSYCHIATRY/PSYCHOLOGY; SOCIAL SCIENCES, GENERAL等四个领域

社交媒体技术；社交媒体；新闻媒体功能估计；推特情绪；推特权力

# 追踪传播学跨学科——研究前沿

社交媒体技术； 社交媒体； 新闻媒体功能估计； 推特情绪； 推特权力

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CORE PAPERS IN SOCIAL MEDIA TECHNOLOGY; SOCIAL MEDIA; NEWS MEDIA ENABLE ESTIMATION; TWITTER MOOD; TWITTER POWER

Sorted by: Citations SORT AGAIN

1 - 16 (of 16)

Navigation icons

Page 1 of 1

1 Citations: 64

Title: TWITTER POWER: TWEETS AS ELECTRONIC WORD OF MOUTH

Authors: JANSEN BJ; ZHANG MM; SOBEL K; CHOWDURY A

Source: J AM SOC INF SCI TECHNOL  
60 (11): 2169-2188 NOV 2009

Addresses: Penn State Univ, Coll Informat Sci & Technol, University Pk, PA 18802 USA.  
Penn State Univ, Smeal Coll Business Adm, University Pk, PA 18802 USA.  
Twitter Inc, San Francisco, CA 94107 USA.

Field: SOCIAL SCIENCES, GENERAL

16篇论文篇均被引27.62

2 Citations: 60

Title: TWITTER MOOD PREDICTS THE STOCK MARKET

Authors: BOLLEN J; MAO HN; ZENG XJ

Source: J COMPUT SCI  
2 (1): 1-8 MAR 2011

Addresses: Indiana Univ, Sch Informat & Comp, Bloomington, IN 47408 USA.  
Univ Manchester, Sch Comp Sci, Manchester M13 9PL, Lancs, England.  
Indiana Univ, Sch Informat & Comp, 919 E 10th St, Bloomington, IN 47408 USA.

Field: COMPUTER SCIENCE

平均出版年：  
2011.2

3 Citations: 42

Title: THE USE OF TWITTER TO TRACK LEVELS OF DISEASE ACTIVITY AND PUBLIC CONCERN IN THE US DURING THE INFLUENZA A H1N1 PANDEMIC

Authors: SIGNORINIA, SEGRE AM; POLGREEN PM

Source: PLOS ONE

跨：COMPUTER SCIENCE; CLINICAL MEDICINE; PSYCHIATRY/PSYCHOLOGY; SOCIAL SCIENCES, GENERAL等四个领域

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(China or Chinese) same (corruption or corrupt)

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- CRIMINOLOGY PENOLOGY (16)
- ECONOMICS (15)

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- BOOK REVIEW (34)
- REVIEW (3)
- PROCEEDINGS PAPER (3)
- EDITORIAL MATERIAL (3)

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排序方式: 出版日期 (降序)

第 1 页, 共 13 页

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创建引文报告

- Controlling Corruption in the Party: China's Central Discipline Inspection Commission**  
作者: Guo, Xuezhi  
CHINA QUARTERLY 卷: 219 页: 897-924 出版年: SEP 2014  
[出版商处的全文](#) [查看摘要](#)  
被引频次: 0  
(来自 Web of Science 核心合集)
- Investigating the Causal Relationships between Causes of and Vulnerabilities to Corruption in the Chinese Public Construction Sector**  
作者: Le, Yun; Shan, Meng; Chan, Albert P. C. 等  
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT 卷: 140 期: 9 文献号: 05014007 出版年: SEP 2014  
[出版商处的全文](#) [查看摘要](#)  
被引频次: 0  
(来自 Web of Science 核心合集)
- Making Law: Small-Scale Trade and Corrupt Exceptions at the Vietnam-China Border**  
作者: Endres, Kirsten W.  
AMERICAN ANTHROPOLOGIST 卷: 116 期: 3 页: 611-625 出版年: SEP 2014  
[出版商处的全文](#) [查看摘要](#)  
被引频次: 0  
(来自 Web of Science 核心合集)
- Hunting corrupt officials online: the human flesh search engine and the search for justice in China**  
作者: Gao, Li; Stanley, James  
INFORMATION COMMUNICATION & SOCIETY 卷: 17 期: 7 页: 914-929 出版年: AUG 9 2014  
[查看摘要](#)  
被引频次: 0  
(来自 Web of Science 核心合集)
- After the Bo Xilai Trial: Does Corruption Threaten China's Future?**  
作者: Broadhurst, Roderic; Wang, Peng  
SURVIVAL 卷: 56 期: 3 页: 167-177 出版年: JUN-JUL 2014  
[出版商处的全文](#)  
被引频次: 0  
(来自 Web of Science 核心合集)
- The stained China miracle: Corruption, regulation, and firm performance**  
作者: Jiang, Ting; He, Huihua  
ECONOMICS LETTERS 卷: 123 期: 3 页: 366-369 出版年: JUN 2014  
被引频次: 0  
(来自 Web of Science 核心合集)

# 反腐败(China or Chinese) same (corruption or corrupt)

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第 1 页, 共 3 页

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1. **The stained China miracle: Corruption, regulation, and firm performance**  
作者: Jiang, Ting; Nie, Huihua  
ECONOMICS LETTERS 卷: 123 期: 3 页: 366-369 出版年: JUN 2014  
  被引频次: 0 (来自 Web of Science 的核心合集)

2. **Is corruption in China "out of control"? A comparison with the US in historical perspective**  
作者: Ramirez, Carlos D.  
JOURNAL OF COMPARATIVE ECONOMICS 卷: 42 期: 1 页: 76-91 出版年: FEB 2014  
  被引频次: 0 (来自 Web of Science 的核心合集)

3. **Double Paradox. Rapid Growth and Rising Corruption in China**  
作者: Osipian, Ararat L.  
EUROPE-ASIA STUDIES 卷: 66 期: 1 页: 172-173 出版年: JAN 2 2014  
被引频次: 0 (来自 Web of Science 的核心合集)

4. **China's land market auctions: evidence of corruption?**  
作者: Cai, Huanhuan; Henderson, ...  
被引频次: 1 (来自 Web of Science 的核心合集)

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The image shows a screenshot of a Web of Science article page. The article title is "China's land market auctions: evidence of corruption?". The journal is "RAND JOURNAL OF ECONOMICS". The authors are Cai, HB; Henderson, JV; and Zhang, QH. The abstract discusses land allocation in China and the prevalence of corruption. The page includes a sidebar with citation counts and a list of recent citations.

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### China's land market auctions: evidence of corruption?

作者: Cai, HB [Cai, Hongbin]<sup>1</sup>; Henderson, JV [Henderson, J. Vernon]<sup>2</sup>; Zhang, QH [Zhang, Qinghua]<sup>1</sup>

RAND JOURNAL OF ECONOMICS  
卷: 44 期: 3 页: 488-521  
DOI: 10.1111/1756-2171.12028  
出版年: SEP 2013  
查看期刊信息

#### 摘要

In China, urban land is allocated by leasehold sales by local officials. Attempting to end widespread corruption, the government now requires sales to be conducted publicly, by either English or two-stage auctions. However, corruption persists through the choice of auction format and pre-auction site deals between favored bidders and local officials. Two-stage auctions have a first stage where favored developers signal that auctions are taken, deterring entry of other bidders. Empirics show that both sales prices and competition are significantly less for two-stage than English auctions. Selection on unobserved property characteristics is positive: officials divert hotter properties to two-stage auctions.

#### 关键词

KeyWords Plus: SELECTION; PROCUREMENT; COMPETITION; COSTS; BIDS

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电子邮件地址: hbcai@gsm.pku.edu.cn; J.V.Henderson@lse.ac.uk; zhangq@gsm.pku.edu.cn

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WILEY-BLACKWELL, 111 RIVER ST, HOBOKEN 07030-6774, NJ USA

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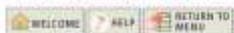
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## RESEARCH FRONTS RANKINGS FOR LARGE SOCIAL NETWORK

Sorted by: Citations [v] SORT AGAIN

1 - 1 (of 1) |<< [1] >>| Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1 [v] [i]	LARGE SOCIAL NETWORK; SOCIAL NETWORKS; OBESITY CONTAGIOUS; OBESITY EPIDEMIC; 20 YEARS	5	1,264	252.80	2007.8

1 - 1 (of 1) |<< [1] >>| Page 1 of 1

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## RESEARCH FRONTS RANKINGS FOR SOCIAL NETWORKING SITES

Sorted by: Citations [v] SORT AGAIN

1 - 1 (of 1) |<< [1] >>| Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1 [v] [i]	PEOPLE USE SOCIAL NETWORKING SITES; ONLINE SOCIAL NETWORK SITES; COLLEGE STUDENTS' SOCIAL NETWORKING EXPERIENCES; SOCIAL MEDIA USE; ONLINE SOCIAL NETWORKING	40	1,685	42.12	2010.0

1 - 1 (of 1) |<< [1] >>| Page 1 of 1

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### RESEARCH FRONTS RANKINGS FOR ONLINE SOCIAL NETWORK EXPERIMENT

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	INTERNET SOCIAL NETWORKS; ONLINE SOCIAL NETWORK EXPERIMENT; ONLINE SOCIAL NETWORK; SOCIAL NETWORKS; OBSERVATIONAL SOCIAL NETWORK	20	968	48.40	2010.5

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### RESEARCH FRONTS RANKINGS FOR ONLINE REVIEWS MATTER

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	ONLINE CONSUMER REVIEWS; ONLINE PRODUCT REVIEWS; ONLINE REVIEWS MATTER; ON-LINE CONSUMER REVIEWS; ONLINE CONSUMER	8	590	73.75	2008.3

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RESEARCH FRONTS RANKINGS FOR USER ACCEPTANCE

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	TECHNOLOGY ACCEPTANCE MODEL; CONSUMER E-SHOPPING ACCEPTANCE; USER ACCEPTANCE; CONSUMER ONLINE PURCHASE INTENTIONS; WEB QUALITY	9	579	64.33	2008.4

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	KNOWLEDGE SHARING MOTIVATION; EMPLOYEE KNOWLEDGE SHARING INTENTIONS; KNOWLEDGE SHARING BEHAVIOR; KNOWLEDGE SHARING; TECHNOLOGY ACCEPTANCE	5	394	78.80	2008.6

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Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	LOW-SKILLED IMMIGRATION; IMMIGRATION THREAT; IMMIGRATION; IMMIGRANTS PROVOKE LOCAL OPPOSITION; TRIGGERS PUBLIC OPPOSITION	5	291	58.20	2009.0

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低技能的移民；移民威胁；移民；移民引发当地反对；触发公众的反对

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### RESEARCH FRONTS RANKINGS FOR UNIVERSITY-INDUSTRY LINKAGES

Sorted by: Citations SORT ASIAN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	UNIVERSITY-INDUSTRY RELATIONSHIPS; UNIVERSITY-INDUSTRY LINKAGES; FORMAL INTELLECTUAL PROPERTY RIGHTS HINDER; ANTI-COMMONS HYPOTHESIS; UNIVERSITY ENTREPRENEURSHIP	5	493	98.60	2007.2

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### RESEARCH FRONTS RANKINGS FOR TEAM SCIENCE

Sorted by: Citations SORT ASIAN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	TRANSDISCIPLINARY COLLABORATION; TEAM SCIENCE; CONTEXTUAL; ECOLOGY; KNOWLEDGE	2	316	158.00	2007.5

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跨学科的协作；团队科学；语境；生态学；知识

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RESEARCH FRONTS RANKINGS FOR TOURISM

Sorted by: Citations SORT AGAIN

1 - 2 (of 2) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	ONLINE TRAVEL INFORMATION SEARCH; TOURISM MANAGEMENT; ONLINE HOTEL REVIEWS; 20 YEARS; INFORMATION TECHNOLOGY	4	278	69.50	2008.8
2	CLIMATE CHANGE; TOURISM; OPERATIONAL GREENHOUSE GAS EMISSION REDUCTION TARGETS; ACHIEVING VOLUNTARY REDUCTIONS; DEMAND RESPONSE	3	91	30.33	2010.7

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气候变化，旅游业

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RESEARCH FRONTS RANKINGS FOR LIFE EVALUATION;

Sorted by: Citations [SORT AGAIN]

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	SUBJECTIVE WELL-BEING; LIFE EVALUATION; EMOTIONAL WELL-BEING; HUMAN WELL-BEING; WELL-BEING U-SHAPED	12	1,277	106.42	2008.5

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RESEARCH FRONTS RANKINGS FOR RISK IDENTIFICATION METHODS

Sorted by: Citations [SORT AGAIN]

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	RISK IDENTIFICATION SYSTEM; RISK IDENTIFICATION METHODS; RISK IDENTIFICATION; EMPIRICAL PERFORMANCE; ANALYSIS SYSTEM	15	299	19.93	2012.1

1 - 1 (of 1) Page 1 of 1

风险识别体系; 风险识别方法; 风险识别; 实证性能; 分析系统

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RESEARCH FRONTS RANKINGS FOR COUNTRIES MATTER SO

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	ANTIDIRECTOR RIGHTS INDEX, COUNTRIES MATTER SO, CORPORATE GOVERNANCE, ECONOMICS, LAW	3	428	142.67	2008.3

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	MORAL STATISTICS, ENRICO MORSELLIS SUICIDE, SUICIDE, SOCIOLOGYS ONE LAW, ALEXANDER VON OETTINGEN	2	9	4.50	2013.0

1 - 1 (of 1) Page 1 of 1

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Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	SCIENTOMETRIC EVALUATION; SCIENTOMETRIC APPROACH; AYHAN DEMIRBAS' SCIENTOMETRIC BIOGRAPHY; RESEARCH; BIODIESEL	7	265	37.86	2011.1
2	SCIENTOMETRIC EVALUATION; SCIENTOMETRIC APPROACH; HIGHER EDUCATION; RESEARCH; CITATION-BASED RANKINGS	5	51	10.20	2011.8

1 - 2 (of 2)

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跨学科研究，科研绩效评估，

## RESEARCH FRONTS RANKINGS FOR INTERDISCIPLINARY SCIENTIFIC RESEARCH

Sorted by: Citations SORT AGAIN

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	MEASURING INTERDISCIPLINARY SCIENTIFIC RESEARCH (IDR); NATIONAL-SCALE RESEARCH PERFORMANCE ASSESSMENT; MAPPING SIX RESEARCH FIELDS; MEASURING CONTEXTUAL CITATION IMPACT; INSTITUTIONAL RESEARCH PERFORMANCE	29	1,035	35.69	2010.1

1 - 1 (of 1)

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RESEARCH FRONTS RANKINGS FOR POLITICAL IDEOLOGY

Sorted by: Citations

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	POLITICAL IDEOLOGY; POLITICAL PSYCHOLOGY; ELECTIVE AFFINITIES; STRUCTURE; FUNCTIONS	2	137	68.50	2009.0

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10	INTERNATIONAL REGIME COMPLEXITY; GLOBAL GOVERNANCE ARCHITECTURES; CLIMATE CHANGE; POLITICS; FRAGMENTATION	3	112	37.33	2010.0
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国际制度的复杂性，全球治理架构，气候变化，政治，破碎

12	SOCIAL IDENTITY; GROUP IDENTITY; SOCIAL PREFERENCES; POLITICAL ECONOMY; MODEL	2	95	47.50	2009.0
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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	URBAN GREEN SPACE; OBJECTIVELY MEASURED GREEN SPACE ACCESSIBILITY; GREEN SPACE; GREEN LIVING ENVIRONMENT; URBAN GREEN SPACES	10	709	70.90	2010.4

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城市绿地;客观测量的绿地空间可达性;绿色空间;绿色生活环境;城市公共绿地

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CORE PAPERS IN URBAN GREEN SPACE; OBJECTIVELY MEASURED GREEN SPACE ACCESSIBILITY; GREEN SPACE; GREEN LIVING ENVIRONMENT; URBAN GREEN SPACES

Sorted by: Citations SORT AGAIN

1 - 10 (of 10) Page 1 of 1

1 Citations: 200

Title: EFFECT OF EXPOSURE TO NATURAL ENVIRONMENT ON HEALTH INEQUALITIES: AN OBSERVATIONAL POPULATION STUDY

Authors: MITCHELL R. POPHAM P

Source: LANCET  
372 (9650): 1655-1660 NOV 8 2008

Addresses: Univ Glasgow, Glasgow G12 8RZ, Lanark, Scotland.  
Univ St Andrews, Sch Geog & Geosci, St Andrews, Fife, Scotland.

Field: CLINICAL MEDICINE

2 Citations: 101

Title: MORBIDITY IS RELATED TO A GREEN LIVING ENVIRONMENT

Authors: MAAS T. VERHEIJ RA. DE VRIES S. SPREKHMENBERG P. SCHELLEVIS FG. GROENWEGEN PP

Source: J EPIDEMIOL COMMUNITY HEALTH  
63 (12): 967-973 DEC 2009

Addresses: Vrije Univ Amsterdam Med Ctr, EMGO Inst, NL-1081 BT Amsterdam, Netherlands.  
NIVEL Netherlands Inst Hlth Serv Res, Utrecht, Netherlands.  
Green World Res, ALTEERRA, Wageningen, Netherlands.  
Univ Utrecht, Dept Human Geog, Dept Sociol, Utrecht, Netherlands.

Field: SOCIAL SCIENCES, GENERAL

3 Citations: 81

Title: ASSOCIATIONS OF NEIGHBOURHOOD GREENNESS WITH PHYSICAL AND MENTAL HEALTH: DO WALKING, SOCIAL COHERENCE AND LOCAL SOCIAL INTERACTION EXPLAIN THE RELATIONSHIPS?

Authors: SUGIYAMA T. LESLIE E. GILES-CORTI B. OWEN N

10篇论文跨CLINICAL MEDICINE、SOCIAL SCIENCES, GENERAL  
两个研究领域

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RESEARCH FRONTS RANKINGS FOR GREEN SPACE

Sorted by: Citations

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	GREEN AREAS AFFECT HEALTH, HEALTH BENEFITS, OBJECTIVELY MEASURED GREEN SPACE ACCESSIBILITY, GREEN SPACE: GREEN LIVING ENVIRONMENT	13	862	66.31	2008.5

1 - 1 (of 1) Page 1 of 1

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CORE PAPERS IN GREEN AREAS AFFECT HEALTH; HEALTH BENEFITS; OBJECTIVELY MEASURED GREEN SPACE ACCESSIBILITY; GREEN SPACE; GREEN LIVING ENVIRONMENT

Sorted by: Citations SORT AGAIN

1 - 13 (of 13) Page 1 of 1

1 Citations: 148

Title: EFFECT OF EXPOSURE TO NATURAL ENVIRONMENT ON HEALTH INEQUALITIES: AN OBSERVATIONAL POPULATION STUDY

Authors: MITCHELL R, POPHAM F

Source: [LANCET](#)  
372 (9650): 1655-1660 NOV 8 2008

Addresses: Univ Glasgow, Glasgow G12 8RZ, Lanark, Scotland.  
Univ St Andrews, Sch Geog & Geosci, St Andrews, Fife, Scotland.  
Univ Glasgow, 1 Lilybank Gardens, Glasgow G12 8RZ, Lanark, Scotland.

Field: [CLINICAL MEDICINE](#)

2 Citations: 121

Title: CONTRIBUTION OF PUBLIC PARKS TO PHYSICAL ACTIVITY

Authors: COHEN DA; MCKENZIE TL; SEHGAL A; WILLIAMSON S; GOLINELLI D; LURIE N

Source: [AMER J PUBLIC HEALTH](#)  
97 (3): 509-514 MAR 2007

Addresses: RAND Corp, Santa Monica, CA 90407 USA.  
San Diego State Univ, Dept Exercise & Nutrit Sci, San Diego, CA 92182 USA.  
RAND Corp, 1776 Main St, Santa Monica, CA 90407 USA.

Field: [SOCIAL SCIENCES, GENERAL](#)

3 Citations: 87

Title: ENVIRONMENTAL CORRELATES OF PHYSICAL ACTIVITY: A REVIEW OF EVIDENCE ABOUT PARKS AND RECREATION

Authors: KACZYNSKI AT; HENDERSON KA

学科涉及医学、社会科学期刊

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BY NAME:	Enter up to five terms or phrases separated by the operators AND or OR to search. <i>Example: BREAST CANCER (more examples)</i> <input type="text" value="GREEN ROOFS"/> <input type="button" value="SEARCH"/>

## RESEARCH FRONTS EXAMPLES

- Enter **CANCER** to search for citation data in the areas of PROSTATE-CANCER SCREENING or BREAST CANCER GENE MUTATIONS.
- Enter **HEPATITIS\*** to search for citation data in the areas of HEPATITIS-G VIRUS or HEPATITIS-A VIRUS.
- Enter **HIV-1** to search for citation data in the areas of HIV-1 ANTIRETROVIRAL THERAPY or HIV-1 DISEASE PROGRESSION.
- Enter **POLYMER\*** to search for citation data in the areas of EDNA-POLYMERASE CHAIN REACTION, POLYMER LIGHT-EMITTING CELLS or POLYSTYRENE BLOCK POLYMERS.

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3月5日

## RESEARCH FRONTS RANKINGS FOR GREEN ROOFS

Sorted by: Citations <input type="button" value="SORT AGAIN"/>					
1 - 1 (of 1)			<< < [ ] > >>		Page 1 of 1
View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1 <input type="button" value="PDF"/> <input type="button" value="Full"/>	GREEN ROOFS; BUILDING ENERGY SAVINGS; BUILDING ENERGY SIMULATION PROGRAMS; BUILDING ENERGY PERFORMANCE; GREEN ROOF MODEL	5	334	66.80	2010.2
1 - 1 (of 1)			<< < [ ] > >>		Page 1 of 1

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屋顶绿化;建筑能源节约;建筑能耗模拟方案;建筑能效;绿色屋顶模型

# 屋顶绿化 (GREEN ROOFS) — 研究前沿

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RESEARCH FRONTS RANKINGS FOR GREEN ROOFS

Sorted by: Citations [SORT ASIAN]

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1 [PDF]	GREEN ROOF MODEL, GREEN ROOFS, GREEN ROOF, BUILDING ENERGY SIMULATION PROGRAMS, BUILDING ENERGY SAVINGS	6	322	53.67	2009.2

1 - 1 (of 1) Page 1 of 1

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屋顶绿化，建筑节能

# 屋顶绿化 (GREEN ROOFS) —— 研究前沿

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Essential Science Indicators<sup>SM</sup>



CORE PAPERS IN GREEN ROOF MODEL; GREEN ROOFS; GREEN ROOF; BUILDING ENERGY SIMULATION PROGRAMS; BUILDING ENERGY SAVINGS

Sorted by: Citations

1 - 6 (of 6)



Page 1 of 1

1 Citations: 85

RESEARCH FRONT

WEB OF SCIENCE

**Title:** SURFACE HEAT BUDGET ON GREEN ROOF AND HIGH REFLECTION ROOF FOR MITIGATION OF URBAN HEAT ISLAND

**Authors:** TAKEBAYASHI H; MORIYAMA M

**Source:** [BLDG ENVIRON](#)  
42 (8): 2971-2979 AUG 2007

**Addresses:** Kobe Univ, Fac Engr, Dept Architecture & Civil Engr, Nada Ku, Kobe, Hyogo 6578501, Japan

**Field:** [ENGINEERING](#)

2 Citations: 72

RESEARCH FRONT

WEB OF SCIENCE

**Title:** TEMPERATURE DECREASES IN AN URBAN CANYON DUE TO GREEN WALLS AND GREEN ROOFS IN DIVERSE CLIMATES

**Authors:** ALEXANDRIA E; JONES P

**Source:** [BLDG ENVIRON](#)  
43 (4): 480-493 APR 2008

**Addresses:** Cardiff Univ, Welsh Sch Architecture, Cardiff CF10 3NB, Wales.  
Cardiff Univ, Welsh Sch Architecture, King Edward 7 Ave, Cardiff CF10 3NB, Wales.

**Field:** [ENGINEERING](#)

3 Citations: 60

RESEARCH FRONT

WEB OF SCIENCE

**Title:** A GREEN ROOF MODEL FOR BUILDING ENERGY SIMULATION PROGRAMS

**Authors:** SAILOR DJ

**Source:** [ENERG BLDG](#)  
40 (8): 1466-1478 2008

**Addresses:** Portland State Univ, Dept Mech & Mat Engr, Portland, OR 97207 USA

# 屋顶绿化 (GREEN ROOFS) —— 研究前沿

2013年11月

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RESEARCH FRONTS RANKINGS FOR GREEN ROOFS

Sorted by: Citations SORT ORDER

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	GREEN ROOFS; GREEN ROOF VEGETATION; GREEN ROOF MODEL; GREEN WALLS; BUILDING ENERGY SIMULATION PROGRAMS	5	171	34.20	2009.6

1 - 1 (of 1) Page 1 of 1

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屋顶绿化，绿色屋顶植被，绿色屋顶模型，墙面绿化，建筑节能模拟程序

# 课题选题实例：屋顶绿化（Roof Greening）、墙面绿化（green walls）

"Roof\* Green\*" or "Green Roof\*" or  
"green\* wall\*" or "wall\* green\*"



# 课题选题实例：屋顶绿化（Roof Greening）、墙面绿化（green walls）

- 为使检索得到的文献最大限度的反映屋顶绿化的真实研究状态，提高文献查全率是必须的工作，因此关键词的选取至关重要。为了克服中英文翻译上的误差，需要通过直接阅读英文文摘或原文收集相关关键词。该课题关键词选择“屋顶绿化”、“绿色屋顶”、“生态屋顶”、“屋顶花园”、“屋顶种植”、“墙面绿化”、“生态墙面”、“墙面种植”等。
- 英文关键词检索式(“roof\* green\*” or “Green\* Roof\*” or “roof\* garden\*” or “rooftop garden\*” or “vegetative roof\*” or “livin\* roof\*” or “ecorooftop\*” or “ecological roof\*” or “sod roof\*” or “roof\* plant\*” or “green\* wall\*” or “wall\* green\*” or “wall\* plant\*”)输入检索框，通过主题字段进行检索

# 课题选题实例：屋顶绿化（Roof Greening）、墙面绿化（green walls）

WEB OF SCIENCE™



检索

Web of Science™ 核心合集

我的工具

检索历史

标记结果列表

欢迎使用全新的 Web of Science! 查看快速入门教程。

基本检索

"roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "veg. \*

+ 添加另一字段

主题

主题

标题

作者

作者识别号

团体作者

编者

出版物名称

DOI

出版年

检索

单击此处获取有关改善检索的建议。

时间跨度

所有年份

从 1900 至 2014

更多设置

Web of Science 核心合集: 引文索引

Science Citation Index Expanded (SCI-EXPANDED) --1900年至今

Social Sciences Citation Index (SSCI) --1900年至今

Arts & Humanities Citation Index (A&HCI) --1975年至今

Conference Proceedings Citation Index - Science (CPCI-S) --1990年至今

Conference Proceedings Citation Index - Social Science & Humanities (CPCI-SSH) --1990年至今

Book Citation Index- Science (BKCI-S) --2005年至今

Book Citation Index- Social Sciences & Humanities (BKCI-SSH) --2005年至今

Web of Science 核心合集: 化学索引

"roof\* green\*" or "Green\* Roof\*" or  
"roof\* garden\*" or "rooftop garden\*" or  
or "vegetative roof\*" or "livin\* roof\*" or  
"ecoroo\* roof\*" or "ecological roof\*" or  
"sod roof\*" or "roof\* plant\*" or  
"green\* wall\*" or "wall\* green\*" or  
"wall\* plant\*"

# 利用SCI、SSCI、A&HCI进行选题分析

- 某一方面的研究以前都有什么人用什么方法做过？
- 现在人们对这方面的研究有什么最新进展和认识？
- 目前同一研究领域，不同的实验室是否用了不同的方法展开研究，哪种方法更合理？
  - 该课题的重要文献的全文
  - 该研究领域中的高影响力学者的信息
  - 文献中实验相关的事实性数据
  - 该研究领域中的核心期刊、热点课题
  - 研究成果如何向某种学术期刊投稿发表

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

The screenshot shows the Web of Science search results page for the query "roof green". The search results are sorted by "Out Date (Descending)". The left sidebar shows the search criteria and filters. The main content area displays a list of search results, each with a title, author, journal information, and a "CiteSpace" icon. A blue callout box highlights the "CiteSpace" icon and provides instructions on how to use it for analysis.

**分析工具**

检索结果: 1,025  
(来自 Web of Science 核心合集)

您的检索: 主题 ("roof green" or "Green Roof" or "roof garden" or "rooftop garden" or "vegetative roof" or "living roof" or "ecorooft" or "ecological roof" or "sod roof" or "roof plant" or "green wall" or "wall green" or "wall plant") ...更多内容

创建提醒服务

精炼检索结果

在以下结果范围内检索

Web of Science 类别

- ENVIRONMENTAL SCIENCES (214)
- ENGINEERING ENVIRONMENTAL (177)
- ENGINEERING CIVIL (152)
- CONSTRUCTION BUILDING TECHNOLOGY (134)
- ECOLOGY (124)

更多选项/分类

文献类型

- ARTICLE (853)
- REVIEW (51)
- LETTER (26)
- BOOK REVIEW (25)
- MEETING ABSTRACT (24)

排序方式: 出新日期 (降序)

选择页面 | 保存至 EndNotes online | 添加到标记结果列表

分析检索结果 | 创建引文报告

1. The future of urban agriculture and biodiversity-ecosystem services: Challenges and next steps  
作者: Lin, Brenda B.; Philpott, Stacy M.; Jha, Shalene  
BASIC AND APPLIED ECOLOGY 卷: 16 期: 3 页: 189-201 出版年: MAY 2015  
CiteSpace 出新高处的全文 查看摘要

2. Accumulated snow layer influence on the heat transfer process through green roof assemblies  
作者: Zhao, Mingjie; Sebric, Jelena; Berghage, Robert D.; 等  
BUILDING AND ENVIRONMENT 卷: 87 页: 82-91  
CiteSpace 查看摘要

3. Thermal performance characteristics of unshaded  
作者: Ghaffarianhoseini, Amirhosein; Berardi, Umberto;  
BUILDING AND ENVIRONMENT 卷: 87 页: 154-168  
CiteSpace 出新高处的全文 查看摘要

4. Nutrient removal by different plants in wetland roof  
作者: Phan Thi Hai Van; Nguyen Thanh Tin; Vo Thi Diep  
DESALINATION AND WATER TREATMENT 卷: 54  
CiteSpace 出新高处的全文 查看摘要

5. The impact of greening systems on building energy  
作者: Raj, Babak; Tenpirak, Martin J.; van den Dobbel  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS  
CiteSpace 出新高处的全文 查看摘要

6. Using natural means to reduce surface transport n  
作者: Van Rensingham, Timothy; Forssen, Jens; Attenb  
APPLIED ACOUSTICS 卷: 92 页: 86-101 出版年: M  
CiteSpace 出新高处的全文 查看摘要

点击**分析检索结果**图标可以对检索结果进行分析。您可以按照多种途径对记录进行分析,包括作者、国家、作者机构、刊名、主题分类、出版年度、语种、文献类型等。

# 强大的分析功能 – 能够处理100万条记录

## 15个字段的深入分析:

- 著者
- 出版年
- 研究机构
- 来源期刊
- 学科领域
- 国家与地区
- 文献类型
- 文献语种

## 多层次的限定与精确的检索:

- 发现某研究领域的隐含的发展趋势
- 把握学科领域的最新动态
- 了解某特定课题在不同学科的分布情况
- 获取某学科领域的核心研究人员的信息

# Web of Science 的检索结果分析功能

- 分析功能可以帮助您清晰准确的了解检索到的记录的相关信息。  
在本例中您可以通过分析功能了解：
  - --发表有关屋顶绿化研究论文最多的作者是谁
  - --发表有关屋顶绿化研究论文最多的国家
  - --发表有关屋顶绿化研究论文最多的机构是哪些
  - --屋顶绿化论文在哪一年发表的最多
  - --屋顶绿化研究论文主要发表在那些杂志上
  - --屋顶绿化研究论文主要涉及了哪些研究领域

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

The screenshot shows the Web of Science search results for the query "roof green". The search results are sorted by "出版日期 (降序)" (Publication Date, Descending). The results list includes:

- 1. The future of urban agriculture and biodiversity-ecosystem services: Challenges and next steps. Authors: Lin, Branda B.; Philpott, Stacy M.; Jha, Shalene. BASIC AND APPLIED ECOLOGY 卷 16 期 3 页 189-201 出版年: MAY 2015.
- 2. Accumulated snow layer influence on the heat transfer process through green roof assemblies. Authors: Zhao, Mingjie; Szebic, Jelena; Berghage, Robert D., 等. BUILDING AND ENVIRONMENT 卷 87 页 82-91 出版年: MAY 2015.
- 3. Thermal performance characteristics of unshaded courtyards in hot and humid climates. Authors: Ghaffarianhoseini, Amirhosein; Berardi, Umberto; Ghaffarianhoseini, Ali. BUILDING AND ENVIRONMENT 卷 87 页 154-168 出版年: MAY 2015.
- 4. Nutrient removal by different plants in wetland roof systems treating domestic wastewater. Authors: Phan Thi Hai Van; Nguyen Thanh Tin; Vo Thi Dieu Hien, 等. DESALINATION AND WATER TREATMENT 卷 54 期 4-5 页 1344-1352 出版年: MAY 1 2015.
- 5. The impact of greening systems on building energy performance: A literature review. Authors: Raji, Babak; Tenpierik, Martin J.; van den Dobbelsteen, Andy. RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷 45 页 610-623 出版年: MAY 2015.
- 6. Using natural means to reduce surface transport noise during propagation outdoors. Authors: Van Renterghem, Timothy; Forssen, Jens; Attenborough, Keith, 等. APPLIED ACOUSTICS 卷 92 页 86-101 出版年: MAY 2015.

On the right side of the results, there are buttons for "分析检索结果" (Analyze Search Results) and "创建引文报告" (Create Citation Report). An arrow points from the text "利用分析工具了解高影响力作者" (Use analysis tools to understand high-impact authors) to the "分析检索结果" button.

利用分析工具了解高影响力作者

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

WEB OF SCIENCE™ THOMSON REUTERS

检索

检索结果: 17  
(来自 Web of Science 核心合集)

您的检索: 主题: ("roof green" or "Green Roof" or "roof garden" or "rooftop garden" or "vegetative roof" or "divin roof" or "scoorof" or "ecological roof" or "bod roof" or "roof plant" or "green wall" or "wall green" or "wall plant") 更多选项

创建期刊服务

精炼检索结果

包括下结果集内检索

Web of Science 类别

- ENERGY FUELS (7)
- ENGINEERING CIVIL (6)
- ECOLOGY (6)
- CONSTRUCTION BUILDING TECHNOLOGY (6)
- GEOGRAPHY PHYSICAL (5)

更多选项/分类

精炼

文献类型

- ARTICLE (13)
- REVIEW (4)

更多选项/分类

精炼

研究主题

排序方式: 最新发布 | 降序

## 屋顶绿化17篇高被引论文

第 1 页, 共 2 页

选择页面 | 保存至 EndNote online | 添加到标记结果列表

分析检索结果 | 创建引文报告

1. Urban green space, public health, and environmental justice: The challenge of making cities 'just green enough'  
作者: Welch, Jennifer R.; Byrne, Jason; Newell, Joshua P.  
LANDSCAPE AND URBAN PLANNING 卷: 125 特刊: 51 页: 234-244 出版年: MAY 2014  
被引频次: 14  
(来自 Web of Science 的核心合集)  
高被引论文
2. Cooling the cities - A review of reflective and green roof mitigation technologies to fight heat island and improve comfort in urban environments  
作者: Santamouris, M.  
SOLAR ENERGY 卷: 103 页: 662-703 出版年: MAY 2014  
被引频次: 25  
(来自 Web of Science 的核心合集)  
高被引论文
3. Economic comparison of white, green, and black flat roofs in the United States  
作者: Sproul, Julian; Wan, Man Pun; Mandel, Benjamin H., 等  
ENERGY AND BUILDINGS 卷: 71 页: 20-27 出版年: MAR 2014  
被引频次: 7  
(来自 Web of Science 的核心合集)  
高被引论文
4. Benchmarks as a tool for free allocation through comparison with similar projects: Focused on multi-family housing complex  
作者: Hong, Tsehoon; Koo, Cheongwan; Lee, Sungug  
APPLIED ENERGY 卷: 114 特刊: 51 页: 663-675 出版年: FEB 2014  
被引频次: 6  
(来自 Web of Science 的核心合集)  
高被引论文
5. Green roofs in European climates. Are effective solutions for the energy savings in air-conditioning?  
作者: Ascione, Fabrizio; Bianco, Nicola; de' Rossi, Filippo, 等  
APPLIED ENERGY 卷: 104 页: 846-859 出版年: APR 2013  
被引频次: 22  
(来自 Web of Science 的核心合集)  
高被引论文
6. A comprehensive study of the impact of green roofs on building energy performance  
被引频次: 45

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

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结果分析

<<返回上一页

## 检索结果分析：作者

812 个记录。主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "livin\* roof\*" or "ecorooft\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*")

根据此字段排列记录:	设置显示选项:	排序方式:
作者 丛书名称 会议名称 国家/地区	显示前 <input type="text" value="50"/> 个分析结果。 最少记录数 (阈值): <input type="text" value="2"/>	<input checked="" type="radio"/> 记录数 <input type="radio"/> 已选字段

分析

请使用以下复选框查看相应记录。您可以选择查看已选择的记录,也可以排除这些记录 (并查看其他记录)。

<input type="checkbox"/> 查看记录 <input checked="" type="checkbox"/> 排除记录	字段: 作者	记录数	占 812 的 %	柱状图	将分析数据保存到文件 <input checked="" type="radio"/> 表格中显示的数据行 <input type="radio"/> 所有数据行 (最多 200,000)
<input type="checkbox"/>	JIM CY	21	2.586 %		
<input type="checkbox"/>	ANONYMOUS	20	2.463 %		
<input type="checkbox"/>	ROWE DB	17	2.094 %		
<input type="checkbox"/>	NEKTARIOS PA	9	1.108 %		
<input type="checkbox"/>	DUNNETT N	7	0.862 %		
<input type="checkbox"/>	GETTER KL	7	0.862 %		
<input type="checkbox"/>	KITTAS C	7	0.862 %		
<input type="checkbox"/>	LANZA LG	7	0.862 %		
<input type="checkbox"/>	PALLA A	7	0.862 %		
<input type="checkbox"/>	SAILOR DJ	7	0.862 %		
<input type="checkbox"/>	BOTTELDOOREN D	6	0.739 %		
<input type="checkbox"/>	DVORAK B	6	0.739 %		
<input type="checkbox"/>	GNECCO I	6	0.739 %		
<input type="checkbox"/>	NAGASE A	6	0.739 %		

高影响力作者

香港大学

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

WEB OF SCIENCE™



## 结果分析

<<返回上一页

812 个记录。主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "livin\* roof\*" or "ecorooft\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*")

根据此字段排列记录:	设置显示选项:	排序方式:
<input type="text" value="机构"/>	显示前 <input type="text" value="50"/> 个分析结果。 最少记录数 (阈值): <input type="text" value="2"/>	<input checked="" type="radio"/> 记录数 <input type="radio"/> 已选字段

香港大学

分析

请使用以下复选框查看相应记录。您可以选择查看已选择的记录,也可以排除这些记录 (并查看其他记录)。

<input type="checkbox"/> 查看记录 <input checked="" type="checkbox"/> 排除记录	字段: 机构	记录数	占 812 的 %	柱状图	将分析数据保存到文件 <input checked="" type="radio"/> 表格中显示的数据行 <input type="radio"/> 所有数据行 (最多 200,000)
<input type="checkbox"/>	UNIV HONG KONG	22	2.709 %		
<input type="checkbox"/>	MICHIGAN STATE UNIV	20	2.463 %		
<input type="checkbox"/>	UNIV SHEFFIELD	18	2.217 %		
<input type="checkbox"/>	NATL UNIV SINGAPORE	14	1.724 %		
<input type="checkbox"/>	AGR UNIV ATHENS	13	1.601 %		
<input type="checkbox"/>	TEXAS A M UNIV	11	1.355 %		
<input type="checkbox"/>	PENN STATE UNIV	10	1.232 %		
<input type="checkbox"/>	UNIV ALMERIA	10	1.232 %		
<input type="checkbox"/>	UNIV FLORIDA	10	1.232 %		
<input type="checkbox"/>	UNIV GEORGIA	10	1.232 %		
<input type="checkbox"/>	UNIV GHENT	10	1.232 %		
<input type="checkbox"/>	LUND UNIV	9	1.108 %		
<input type="checkbox"/>	OHIO STATE UNIV	8	0.985 %		
<input type="checkbox"/>	PORTLAND STATE UNIV	8	0.985 %		

了解竞争对手

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

WEB OF SCIENCE™



结果分析

<<返回上一页

## 检索结果分析：国家与地区分布

812 个记录。主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative green\*" or "wall\* plant\*")

根据此字段排列记录:	设置显示选项:	排序方式:
国家/地区 文献类型 编者 基金资助机构	显示前 <input type="text" value="50"/> 个分析结果。 最少记录数 (阈值): <input type="text" value="2"/>	<input checked="" type="radio"/> 记录数 <input type="radio"/> 已选字段

分析

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<input type="checkbox"/>	USA	239	29.433 %	
<input type="checkbox"/>	PEOPLES R CHINA	65	8.005 %	
<input type="checkbox"/>	ENGLAND	62	7.635 %	
<input type="checkbox"/>	CANADA	46	5.665 %	
<input type="checkbox"/>	FRANCE	33	4.064 %	
<input type="checkbox"/>	ITALY	33	4.064 %	
<input type="checkbox"/>	JAPAN	32	3.941 %	
<input type="checkbox"/>	SPAIN	32	3.941 %	
<input type="checkbox"/>	GREECE	31	3.818 %	
<input type="checkbox"/>	GERMANY	29	3.571 %	
<input type="checkbox"/>	BELGIUM	19	2.340 %	
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- 该课题在中国的发展趋势
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论文  
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# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

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## 中国学者发表65篇屋顶绿化论文

第 1 页, 共 7 页

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- ECOLOGY (11)

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文献类型

- ARTICLE (63)
- REVIEW (2)

1. **State-of-the-art analysis of the environmental benefits of green roofs**  
作者: Berardi, Umberto; GhaffarianHoseini, AmirHosein; GhaffarianHoseini, Ali  
APPLIED ENERGY 卷: 115 页: 411-428 出版年: FEB 15 2014  
全文 查看摘要 被引频次: 0 (来自 Web of Science 的核心合集)

2. **A combined experimental and simulation method for appraising the energy performance of green roofs in Ningbo's Chinese climate**  
作者: Kokogiannakis, Georgios; Darkwa, Jo; Yuan, Kate  
BUILDING SIMULATION 卷: 7 期: 1 页: 13-20 出版年: FEB 2014  
全文 查看摘要 被引频次: 0 (来自 Web of Science 的核心合集)

3. **Heat-sink effect and indoor warming imposed by tropical extensive green roof**  
作者: Jim, C. Y.  
ECOLOGICAL ENGINEERING 卷: 62 页: 1-12 出版年: JAN 2014  
全文 查看摘要 被引频次: 0 (来自 Web of Science 的核心合集)

4. **Sustainable urban greening strategies for compact cities in developing and developed economies**  
作者: Jim, C. Y.  
URBAN ECOSYSTEMS 卷: 16 期: 4 特刊: SI 页: 741-761 出版年: DEC 2013  
全文 查看摘要 被引频次: 1 (来自 Web of Science 的核心合集)

5. **The effects of low impact development on urban flooding under different rainfall characteristics**  
作者: Qin, Hua-peng; Li, Zhuo-xi; Fu, Guangtao  
JOURNAL OF ENVIRONMENTAL MANAGEMENT 卷: 129 页: 577-585 出版年: NOV 15 2013  
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# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

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## 发表屋顶绿化论文的中国研究机构

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机构 机构扩展 出版年 研究方向	显示前 <input type="text" value="50"/> 个分析结果。 最少记录数 (阈值): <input type="text" value="2"/>	<input checked="" type="radio"/> 记录数 <input type="radio"/> 已选字段

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<input type="checkbox"/>	HONG KONG POLYTECH UNIV	5	7.692 %		
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<input type="checkbox"/>	USA	8	12.308 %		
<input type="checkbox"/>	AUSTRALIA	2	3.077 %		
<input type="checkbox"/>	CANADA	2	3.077 %		
<input type="checkbox"/>	ENGLAND	1	1.538 %		
<input type="checkbox"/>	GERMANY	1	1.538 %		
<input type="checkbox"/>	JAPAN	1	1.538 %		
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<input type="checkbox"/>	BOOK REVIEW	25	3.079 %	
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<input type="checkbox"/>	NEWS ITEM	19	2.340 %	
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科学新闻

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

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作者

团体作者

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- 标题: Performance evaluation and development strategies for green roofs in Taiwan: A review  
作者: Chen, Chi-Feng  
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- 标题: The role of green roof technology in urban agriculture  
作者: Whittinghill, Leigh J.; Rowe, D. Bradley  
来源出版物: RENEWABLE AGRICULTURE AND FOOD SYSTEMS 卷: 27 期: 4 页: 314-322 DOI: 10.1017/S174217051100038X 出版年: DEC 2012  
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- 标题: Assessment of retrofitting measures and solar systems' potential in urban areas using Geographical Information Systems: Application to a Mediterranean city  
作者: Theodoridou, Ifigeneia; Karteris, Marinos; Mallinis, Georgios; 等  
来源出版物: RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 16 期: 8 页: 6239-6261 DOI: 10.1016/j.rser.2012.03.075 出版年: OCT 2012  
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# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

The image shows a screenshot of the ScienceDirect website displaying search results for the topic of green roofs. The interface includes a search bar, filters for document type and research direction, and a list of search results. Two red arrows point to specific elements: one points to the 'View' button of the first result, and the other points to the 'Full Text' button of the second result. A large red text overlay reads '点击全文标识阅读全文' (Click the full text icon to read the full text).

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- BIOTECHNOLOGY APPLIED MICROBIOLOGY (5)
- ECOLOGY (5)
- ENVIRONMENTAL STUDIES (5)

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- REVIEW (39)

研究方向

作者

团体作者

编者

来源出版物名称

排序方式 出版日期(倒序)

1. **Quantifying the thermal performance of green façades: A critical review**  
作者: Hunter, Anne M.; Willis, William  
ECOLOGICAL ENGINEERING  
全文 查看摘要

2. **Transgenic expression of green roofs**  
作者: Cletus, Jean; Balasubramanian, Venkatesh  
BIOTECHNOLOGY LETTERS  
全文 查看摘要

3. **Using cool pavements as developments**  
作者: Santamouris, M.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 26 页: 224-240 出版年: OCT 2013  
全文 查看摘要

4. **The city and urban heat islands: A review of strategies to mitigate adverse effects**  
作者: Gago, E. J.; Roldan, J.; Pacheco-Torres, M.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 26 页: 769-758 出版年: SEP 2013  
全文 查看摘要

5. **A review of energy aspects of green roofs**  
作者: Saadatian, Omidroza; Sopian, K.; Salleh, E.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 23 页: 155-168 出版年: JUL 2013  
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6. **Performance evaluation and development strategies for green roofs in Taiwan: A review**  
作者: Chen, Chi-Fang  
ECOLOGICAL ENGINEERING 卷: 52 页: 51-58 出版年: MAR 2013  
全文 查看摘要

7. **Effects of Evapotranspiration on Mitigation of Urban Temperature by Vegetation and Urban Agriculture**  
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ScienceDirect

Ecological Engineering  
Volume 52, February 2014, Pages 93–110

Quantifying the thermal performance of green façades: A critical review

Authors: Anne M. Hunter<sup>a</sup>, William S. Willis<sup>a</sup>, John P. Hayes<sup>a</sup>, Lu Xya<sup>b</sup>, Dominique Huel<sup>c</sup>, Stephen J. Livesey<sup>d</sup>

Highlights

- We investigate the scientific literature on the thermal performance of green façades.
- Studies exist across research design problems.
- Five studies investigated the influence of plant morphology and physiology on facade performance.
- We propose an approach to standardizing the measurement of green facade parameters.
- Inputs from plant biology, ecology, horticulture and soil science are needed to progress this emerging field.

Abstract

Green façades are climbing plants grown either directly against or on support structures affixed to exterior building walls. Like other forms of green infrastructure, they are increasingly being considered as a design feature to cool interior building temperatures, reduce building energy consumption and facilitate urban adaptation to a warming climate. To develop a better practice framework for green facade thermal performance we reviewed the scientific literature – a literature currently dominated by the disciplines of architecture and engineering, and lacking inter-disciplinary input from plant biology, ecology, horticulture and soil science. This found that many of the studies were prone to research design problems: the small number of experimental studies limited replication and provided insufficient information about the microclimate parameters measured, while the assumptions of modeling studies were not always delineated or justified. Few studies considered the influence of climbing plant characteristics, and fewer still investigated the impact of green facade design components (support structure, growing media, plant container and irrigation system) on green facade thermal performance. As a framework for future green facade research, we propose that standardized methods be adopted, and to this end, set out the minimum-requirements data required to enable comparative assessment of green facade performance. Furthermore, we stress the need for research on the interaction between climbing plant parameters and building energy systems, as well as on the influence of green facade design elements on thermal performance. Without this shift in approach, unrealistic expectations of green facade elements and their climate change adaptation benefits will persist.

Urban Environmental Pollution  
Climate Change and Urban Environment

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<input type="checkbox"/>	NATIONAL NATURAL SCIENCE FOUNDATION OF CHINA	8	0.985 %		<input checked="" type="radio"/> 表格中显示的数据行
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<input type="checkbox"/>	NATIONAL RESEARCH FOUNDATION OF KOREA NRF	4	0.493 %		
<input type="checkbox"/>	AUCKLAND REGIONAL COUNCIL	3	0.369 %		
<input type="checkbox"/>	CAPES	3	0.369 %		
<input type="checkbox"/>	CENTER FOR ENVIRONMENTAL INNOVATION IN ROOFING WASHINGTON DC USA	3	0.369 %		
<input type="checkbox"/>	DR STANLEY HO ALUMNI CHALLENGE FUND	3	0.369 %		
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文献类型

- ARTICLE (13)

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作者: Qin, Hua-peng; Li, Zhuo-xi; Fu, Guangtao  
JOURNAL OF ENVIRONMENTAL MANAGEMENT 卷: 129 页: 577-585 出版年: NOV 15 2013

全文

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2. **Populus euphratica XTH overexpression enhances salinity tolerance by the development of leaf succulence in transgenic tobacco plants**

作者: Han, Yansha; Wang, Wei; Sun, Jian; 等.  
JOURNAL OF EXPERIMENTAL BOTANY 卷: 64 期: 14 页: 4225-4238 出版年: NOV 2013

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作者: Sun, Ranhao; Lu, Yihe; Chen, Liding; 等.  
BUILDING AND ENVIRONMENT 卷: 65 页: 90-98 出版年: JUL 2013

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4. **Heavy metals in plants and substrate from simulated extensive green roofs**

作者: Ye, Jianjun; Liu, Chuanyin; Zhao, Zichao; 等.  
ECOLOGICAL ENGINEERING 卷: 55 页: 29-34 出版年: JUN 2013

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### Heavy metals in plants and substrate from simulated extensive green roofs

作者: Ye, JJ (Ye, Jianjun)<sup>1,2\*</sup>; Liu, CY (Liu, Chuanyin)<sup>2,1</sup>; Zhao, ZC (Zhao, Zichao)<sup>4,1</sup>; Li, YQ (Li, Yuqiang)<sup>2,1</sup>; Yu, BX (Yu, Binbin)<sup>1,1</sup>

ECOLOGICAL ENGINEERING  
卷: 55 页: 29-34  
DOI: 10.1016/j.ecoleng.2013.02.012  
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#### 摘要

Recycled brick could be used in green roofs but may pose environmental risk due to its heavy metal contents. In this study, concentrations of eight heavy metals (Cr, Ni, Cu, Zn, As, Cd, Pb, and Hg) in three edible and medicinal plants (Bedum linearis Thunb (BL), Bedum sarmentosum Bunge (BS) and Portulaca oleracea L (PO)), and in recycled brick substrate from simulated extensive green roofs, were investigated in Spring and Autumn. The results showed that most heavy metal concentrations in plants (aboveground parts) in April were significantly lower than those in October, and significantly increased year on year. None of the three species showed superiority or inferiority in all heavy metal concentrations at all the four samplings. Heavy metal concentrations in aboveground parts were all significantly lower than in roots, and significantly lower than in substrate except for Zn. The three species could not be used as food a year after they were sown; only PO collected in April can be harvested as medicine, mainly due to Pb concentrations exceeding the standard. Cd concentration in substrate increased and Ni decreased during the experiment, while the others kept unchanged. The substrate was polluted according to the standard due to its high Cd concentration which mainly came from recycled brick. (C) 2013 Elsevier B.V. All rights reserved.

#### 关键词

作者关键词: Heavy metals; Recycled brick; Substrate; Extensive green roofs; Edible and medicinal plants  
KeyWords Plus: BEDUM-ALFREDII; SOILS; CHINA

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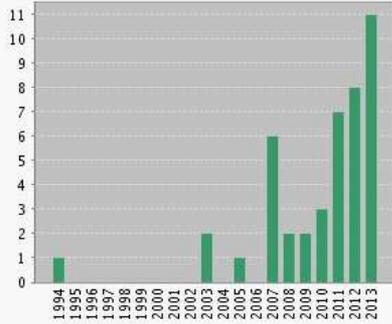
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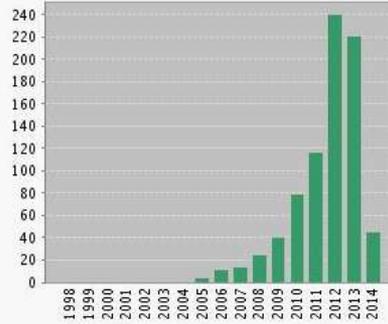
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### Cost-benefit analysis for green facades and living wall systems

作者: Perini, K (Perini, Katia)<sup>[1]</sup>; Rosasco, P (Rosasco, Paolo)<sup>[1]</sup>

**BUILDING AND ENVIRONMENT**  
卷: 70 页: 110-121  
DOI: 10.1016/j.buildenv.2013.08.012  
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**摘要**  
Vertical greening systems can be used as a mean to improve the environmental conditions of dense urban areas. Several researches have proved the environmental benefits of green envelopes. It is still not clear if vertical greening systems are economically sustainable, differently several Life Cycle Cost Analysis and Cost-Benefit Analysis determined economic costs and benefits of **green roofs**. This paper presents a Cost-Benefit Analysis of different vertical greening systems - green facades and living wall systems - considering personal and social benefits and costs over their life cycle. Installation, maintenance, and disposal costs of each analysed system are compared with the related private and social benefits (increase of real estate value, savings for heating and air conditioning, cladding longevity, air quality improvement, etc.), determining three indicators: the Net Present Value (NPV), the Internal Rate of Return (IRR) and the Pay Back Period (PBP). The CBA demonstrated that some of the vertical greening systems analysed are economically sustainable. Economic incentives (tax reduction) could reduce personal initial cost allowing a wider diffusion of greening systems to reduce environmental issues in dense urban areas, such as urban heat island phenomenon and air pollution. (C) 2013 Elsevier Ltd. All rights reserved.

**关键词**  
作者关键词: Green facade; Living wall system; Cost benefit analysis; Life cycle costs; Economic sustainability  
KeyWords Plus: AIR-POLLUTION; ROOFS; TEMPERATURE; CLIMATES; VIEW

**作者信息**  
通讯/作者地址: Perini K (通讯/作者)

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# 如何向 Building and Environment 《建筑与环境》 期刊投稿?

点击论文题目在全记录界面了解该期刊的影响因子

The screenshot shows a Web of Science article record. The article title is "Assessing practical measures to reduce urban heat: Green and cool roofs". The authors are Coultts, AM; Daly, E; Beringer, J; and Tapper, NJ. The journal is Building and Environment, Volume 70, pages 266-276, published in December 2013. The article has 1 citation and 40 references. The abstract discusses the thermal performance of green and cool roofs in Melbourne, Australia. The keywords are Green roofs, Cool roofs, Surface energy balance, Evapotranspiration, Impacts. The article is categorized under Construction & Building Technology, Engineering, Environmental, Engineering, and Civil. The journal's impact factor is 1.034 (2013).

**主副题名**

**点击获得影响因子**

# 进入JCR数据库了解期刊的影响因子？

文章所在期刊 **Building and Environment**  
《建筑与环境》在最近**5**年的影响因子变化

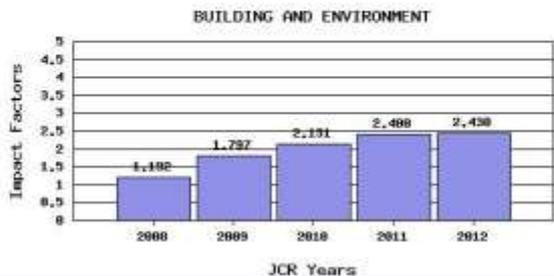
ISI Web of Knowledge™

Journal Citation Reports®

WELCOME | HELP | RETURN TO JOURNAL

Impact Factor Trend Graph: BUILDING AND ENVIRONMENT

Click on the "Return to Journal" button to view the full journal information.



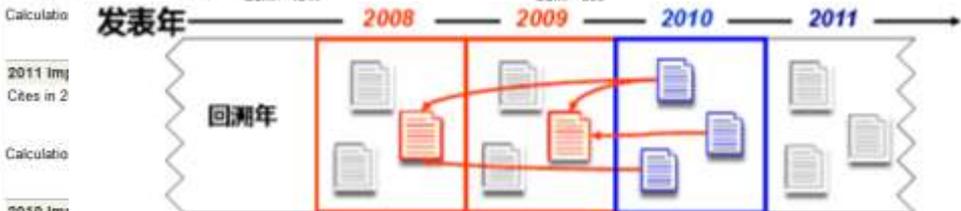
Impact Factor - see below for calculations

The journal impact factor is a measure of the frequency with which the "average article" in a journal has been cited in a particular year. The impact factor will help you evaluate a journal's relative importance, especially when you compare it to others in the same field. For more bibliometric data and information on this and other journal titles click on the "Return to Journal" button.

NOTE: Title changes and coverage changes may result in no impact factor for one or more years in the above graph.

## 2012 Impact Factor

Cites in 2012 to articles published in: 2011 = 567    Number of articles published in: 2011 = 265  
2010 = 777    2010 = 288  
Sum: 1344    Sum: 553



$$IF_{2010} = \frac{\text{2008年和2009年发表的文献在2010年被引用的次数}}{\text{2008年和2009年发表的文献数}}$$

## 2009 Impact Factor

Cites in 2009 to articles published in: 2008 = 351    Number of articles published in: 2008 = 219  
2007 = 837    2007 = 442  
Sum: 1188    Sum: 661

Calculation Cites to recent articles: 1188 = 1.797

影响因子 (Impact Factor): 用该期刊前两年发表论文在当年被引用的次数除以该期刊前两年发表论文的总数所得到的值。可以用来评估同一研究领域不同期刊的相对重要性

# 进入JCR数据库了解期刊的影响因子？

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Journal Citation Reports<sup>®</sup>

WELCOME HELP RETURN TO LIST

2012 JCR Science Edition

Journal: BUILDING AND ENVIRONMENT

Mark	Journal Title	ISSN	Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Citable Items	Cited Half-life	Citing Half-life
<input type="checkbox"/>	<a href="#">BUILD ENVIRON</a>	0360-1323	7021	2.430	2.699	0.660	312	5.4	7.6

[Cited Journal](#) [Citing Journal](#) [Source Data](#) [Journal Self Cites](#)

[CITED JOURNAL DATA](#) [CITING JOURNAL DATA](#) [IMPACT FACTOR TREND](#) [RELATED JOURNALS](#)

Journal Information

Full Journal Title: BUILDING AND ENVIRONMENT  
ISO Abbrev. Title: Build. Environ.  
JCR Abbrev. Title: BUILD ENVIRON  
ISSN: 0360-1323  
Issues/Year: 12  
Language: ENGLISH  
Journal Country/Territory: ENGLAND

了解出版周期、语种、所属国家、出版社信息等。

Publisher: PERGAMON ELSEVIER SCIENCE LTD  
Publisher Address: THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, ENGLAND  
Subject Categories: CONSTRUCTION & BUILDING TECHNOLOGY

ENGINEERING, ENVIRONMENTAL  
ENGINEERING, CIVIL

Eigenfactor<sup>®</sup> Metrics  
Eigenfactor<sup>®</sup> Score  
0.01907  
Article Influence<sup>®</sup> Score  
0.736

Additional Links

Holdings 00

了解某一学科中的其它SCI期刊

Journal Impact Factor

Cites in 2012 to items published in: 2011 = 567  
2010 = 777  
Sum: 1344

Number of items published in: 2011 = 265  
2010 = 288  
Sum: 553

Calculation:  $\frac{\text{Cites to recent items}}{\text{Number of recent items}} = \frac{1344}{553} = 2.430$

了解期刊所属学科及其在学科内的排名

5-Year Journal Impact Factor

Cites in (2012) to items published in: 2011 = 567  
2010 = 777  
2009 = 855  
2008 = 630  
2007 = 1174  
Sum: 4003

Number of items published in: 2011 = 265  
2010 = 288  
2009 = 269  
2008 = 219  
2007 = 442  
Sum: 1483

Calculation:  $\frac{\text{Cites to recent items}}{\text{Number of recent items}} = \frac{4003}{1483} = 2.699$

Journal Self Cites

The tables show the contribution of the journal's self-cites to its impact factor. This information is also represented in the cited journal graph.

# 进入JCR数据库了解期刊的影响因子?

## 结构与建筑技术学科2012年JCR收录57种期刊

可以按照不同的字段排序

该期刊的影响因子在所属学科排名第1位

ISI Web of Knowledge™  
Journal Citation Reports®

Journal Summary List  
Journals from: subject categories CONSTRUCTION & BUILDING TECHNOLOGY

Sorted by: Impact Factor

Journals 1 - 20 (of 57)

Mark	Rank	Journal Title (linked to journal information)	ISSN	JCR Data (J)					Eigenfactor® Metrics (J)		
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-Life	Eigenfactor® Score	Article Influence® Score
<input type="checkbox"/>	1	COMPUT-AIDED CIV INF	1093-9687	1315	4.460	3.326	0.623	53	5.0	0.00266	0.689
<input type="checkbox"/>	2	INDOOR AIR	0905-6947	2218	3.302	3.533	0.696	46	7.3	0.00504	1.202
<input type="checkbox"/>	3	CEMENT CONCRETE RES	0008-8846	13854	3.112	3.746	0.441	170	6.6	0.01703	1.220
<input type="checkbox"/>	4	ENERG BUILDINGS	0378-7788	7891	2.679	3.254	0.242	516	5.5	0.01650	0.742
<input type="checkbox"/>	5	CEMENT CONCRETE COMP	0958-9465	4299	2.523	3.359	0.363	146	7.2	0.01008	1.145
<input type="checkbox"/>	6	BUILD ENVIRON	0360-1323	7021	2.430	2.699	0.660	312	5.4	0.01907	0.736
<input type="checkbox"/>	7	CONSTR BUILD MATER	0950-0618	7337	2.293	2.818	0.391	960	3.9	0.02155	0.680
<input type="checkbox"/>	8	BUILD RES INF	0961-3218	863	1.989	1.964	0.633	49	5.6	0.00225	0.581
<input type="checkbox"/>	9	AUTOMAT CONSTR	0926-5805	1692	1.820	2.038	0.181	160	4.9	0.00388	0.449
<input type="checkbox"/>	10	BUILD SERV ENG RES T	0143-6244	328	1.609	1.042	0.370	27	7.0	0.00104	0.497
<input type="checkbox"/>	11	STRUCT CONTROL HLTH	1545-2263	611	1.544	1.559	0.175	57	4.6	0.00282	0.618
<input type="checkbox"/>	12	J BUILD PERFORM SIMU	1940-1493	138	1.524		0.200	25	3.0	0.00096	
<input type="checkbox"/>	13	J BUILD PHYS	1744-2591	194	1.419	1.434	0.348	23	4.6	0.00065	0.447
<input type="checkbox"/>	14	J CONSTR STEEL RES	0143-974X	3038	1.327	1.565	0.237	232	6.8	0.00823	0.583
<input type="checkbox"/>	15	WIND STRUCT	1226-6116	268	1.254	1.057	0.000	32	4.7	0.00117	0.425
<input type="checkbox"/>	16	J STRUCT ENG-ASCE	0733-9445	8208	1.206	1.532	0.261	142	>10.0	0.01241	0.862
<input type="checkbox"/>	17	LIGHTING RES TECHNOL	1477-1536	498	1.197	1.336	0.143	35	8.9	0.00079	0.364
<input type="checkbox"/>	18	MATER STRUCT	1359-5997	3233	1.184	1.653	0.176	131	9.7	0.00731	0.701
<input type="checkbox"/>	19	TUNN UNDERGR SP TECH	0886-7798	1267	1.106	1.508	0.142	120	6.5	0.00250	0.397
<input type="checkbox"/>	20	J WATER CIVIL ENG	0899-1561	2152	0.959	1.205	0.108	170	7.7	0.00611	0.515

Ranking is based on your journal and sort selection.

Page 1 of 3

MARK ALL UPDATE MARKED LIST

Journals 1 - 20 (of 57)

Page 1 of 3

# 如何了解期刊的影响因子？

## 了解该期刊在学科中所处的影响因子四分位区间

ISI Web of Knowledge<sup>SM</sup>

Journal Citation Reports<sup>®</sup>

WELCOME HELP RETURN TO JOURNAL

2012 JCR Science Edition

Rank in Category: BUILDING AND ENVIRONMENT

Journal Ranking ⓘ

For 2012, the journal BUILDING AND ENVIRONMENT has an Impact Factor of 2.430.

This table shows the ranking of this journal in its subject categories based on Impact Factor.

Category Name	Total Journals in Category	Journal Rank in Category	Quartile in Category
CONSTRUCTION & BUILDING TECHNOLOGY	57	6	Q1
ENGINEERING, CIVIL	122	8	Q1
ENGINEERING, ENVIRONMENTAL	42	14	Q2

Category Box Plot ⓘ

For 2012, the journal BUILDING AND ENVIRONMENT has an Impact Factor of 2.430.

This is a box plot of the subject category or categories to which the journal has been assigned. It provides information about the distribution of journals based on Impact Factor values. It shows median, 25th and 75th percentiles, and the extreme values of the distribution.

A box plot titled "BUILD ENVIRON, IF = 2.430." comparing the impact factor distribution of three subject categories: A (Construction & Building Technology), B (Engineering, Civil), and C (Engineering, Environmental). The y-axis is labeled "Impact Factor" and ranges from 0 to 6. Category A has a median around 0.8, a 25th percentile around 0.5, and a 75th percentile around 1.2. Category B has a median around 0.8, a 25th percentile around 0.5, and a 75th percentile around 1.2. Category C has a median around 1.8, a 25th percentile around 1.1, and a 75th percentile around 2.6. The journal's impact factor of 2.430 is marked with a '+' inside the box for category C. Whiskers extend to the minimum and maximum values of the distribution for each category.

Impact Factor

Subject Category

A - CONSTRUCTION & BUILDING TECHNOLOGY  
B - ENGINEERING, CIVIL  
C - ENGINEERING, ENVIRONMENTAL

影响因子的四分位区间是指将一个学科领域内所有期刊影响因子大小顺序排列后，将所有期刊分成四等份，从而形成四个区间并分别标记为Q1, Q2, Q3, Q4

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# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

## 检索结果的分析: 学科

Web of Science™ InCites® Journal Citation Reports® Essential Science Indicators™ EndNote® Yuehua 帮助 简体中文

### WEB OF SCIENCE™ THOMSON REUTERS™

#### 结果分析

<<返回上一页

812 个记录。主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "livin\* roof\*" or "ecorooft\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*")  
分析: 来源出版物名称: (BUILDING AND ENVIRONMENT)

根据此字段排列记录: 设置显示选项: 排序方式:

出版年 研究方向 来源出版物名称 Web of Science 类别

显示前 10 个分析结果。 最少记录数 (阈值): 1

记录数  已选字段

分析

- 屋顶绿化研究论文主要涉及了哪些研究领域
- 共涉及119个研究领域

请使用以下复选框查看相应记录。您可以选择查看已选择的记录,也可以排除这些记录 (并查看其他记录)。

查看记录 / 排除记录	字段: Web of Science 类别	记录数	占 812 的 %	柱状图
<input type="checkbox"/>	ENVIRONMENTAL SCIENCES	143	17.611 %	■
<input type="checkbox"/>	ENGINEERING ENVIRONMENTAL	121	14.901 %	■
<input type="checkbox"/>	ARCHITECTURE	111	13.670 %	■
<input type="checkbox"/>	ENGINEERING CIVIL	109	13.424 %	■
<input type="checkbox"/>	CONSTRUCTION BUILDING TECHNOLOGY	100	12.315 %	■
<input type="checkbox"/>	ECOLOGY	82	10.099 %	■
<input type="checkbox"/>	HORTICULTURE	74	9.113 %	■
<input type="checkbox"/>	ENERGY FUELS	68	8.374 %	■
<input type="checkbox"/>	WATER RESOURCES	68	8.374 %	■
<input type="checkbox"/>	ENVIRONMENTAL STUDIES	66	8.128 %	■

将分析数据保存到文件  
 表格中显示的数据行  
 所有数据行 (最多 200,000)

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

Web of Science™ InCites® Journal Citation Reports® Essential Science Indicators™ EndNote® Yuehua 帮助 简体中文

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## 结果分析

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812 个记录。主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "livin\* roof\*" or "ecoroo\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*")  
分析: 来源出版物名称: (BUILDING AND ENVIRONMENT)

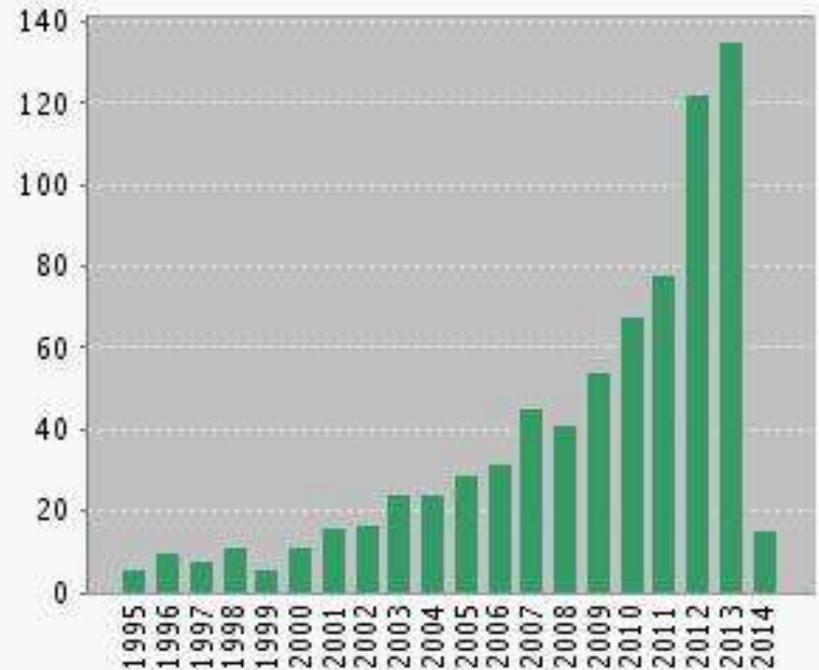
根据此字段排列记录:	设置显示选项:	排序方式:
出版年 研究方向 来源出版物名称 Web of Science 类别	显示前 10 个分析结果。 最少记录数 (阈值): 1	<input checked="" type="radio"/> 记录数 <input type="radio"/> 已选字段

分析

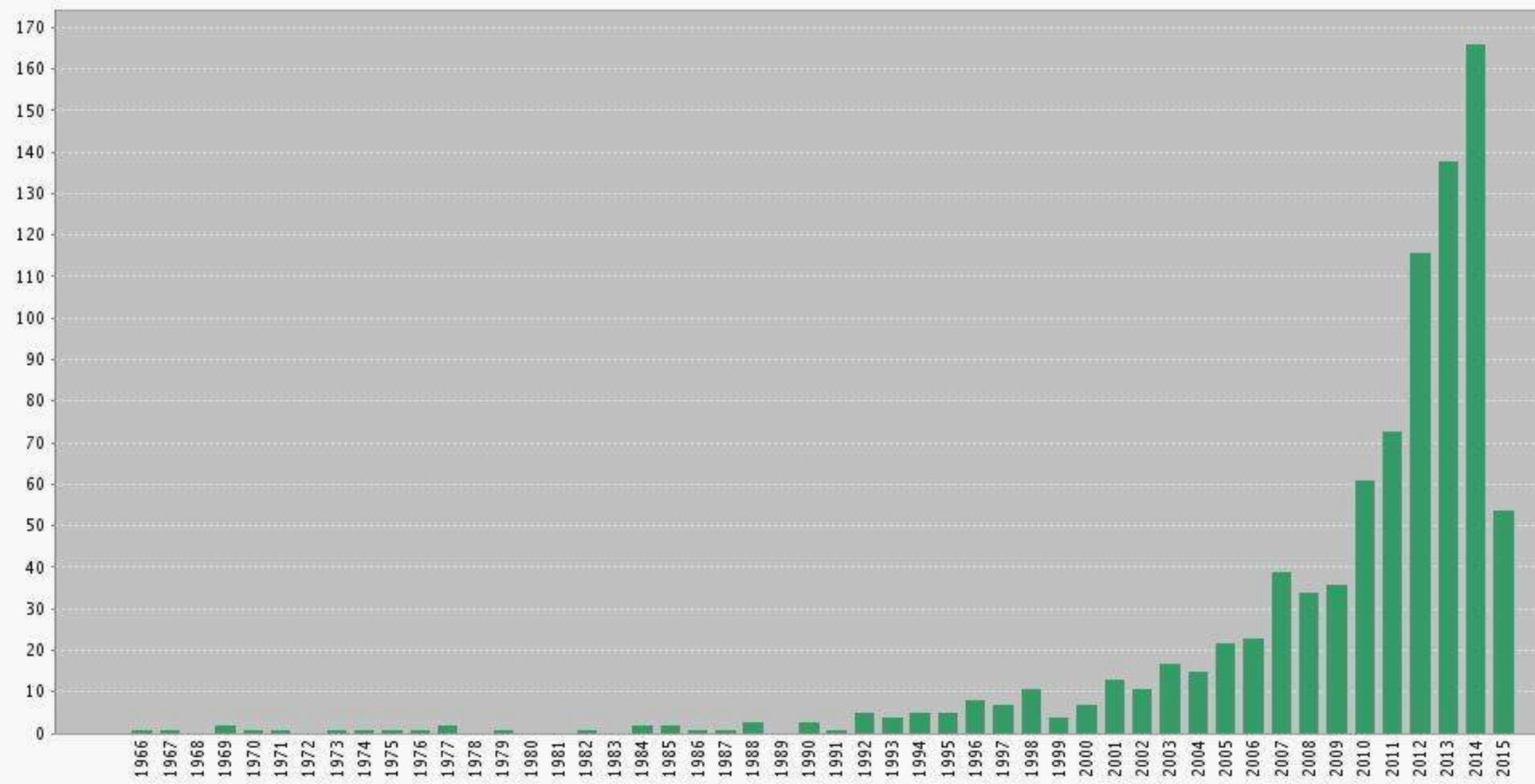
请使用以下复选框查看相应记录。您可以选择查看已选择的记录,也可以排除这些记录 (并查看其他记录)。

<input checked="" type="checkbox"/> 查看记录 <input checked="" type="checkbox"/> 排除记录	字段: 出版年	记录数	占 812 的 %	柱状图	将分析数据保存到文件 <input checked="" type="radio"/> 表格中显示的数据行 <input type="radio"/> 所有数据行 (最多 200,000)
<input type="checkbox"/>	2013	135	16.626 %	■	<input type="checkbox"/>
<input type="checkbox"/>	2012	122	15.025 %	■	
<input type="checkbox"/>	2011	78	9.606 %	■	
<input type="checkbox"/>	2010	68	8.374 %	■	
<input type="checkbox"/>	2009	54	6.650 %	■	
<input type="checkbox"/>	2007	45	5.542 %	■	
<input type="checkbox"/>	2008	41	5.049 %	■	
<input type="checkbox"/>	2006	32	3.941 %	■	
<input type="checkbox"/>	2005	29	3.571 %	■	
<input type="checkbox"/>	2003	24	2.956 %	■	

## 出版年分析: 了解课题的发展趋势以及判断课题的发展阶段。



# 课题选题实例：屋顶绿化



屋顶绿化1966-2015年发文趋势

**如何从整体上把握课题的发展方向和趋势？**

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

WEB OF SCIENCE™ THOMSON REUTERS®

对现有文献进行全方位的分析以发现有用的信息

检索结果: 788  
(来自 Web of Science 核心合集)

您的检索:  
主题: ("roof green" or "Green Roof" or "roof garden")...更多内容

Web of Science 类别

- ENVIRONMENTAL SCIENCES (142)
- ENGINEERING ENVIRONMENTAL (120)
- ARCHITECTURE (111)
- ENGINEERING CIVIL (108)
- CONSTRUCTION BUILDING TECHNOLOGY (98)

更多选项/分类...

文献类型

- ARTICLE (633)
- REVIEW (39)
- BOOK REVIEW (25)
- LETTER (25)
- PROCEEDING (16)

更多选项/分类...

研究方向

作者

团体作者

排序方式: 出版日期 (降序)

第 1 页, 共 79 页

选择页面 | 保存至 EndNote Online | 添加到标记结果列表

分析检索结果 | 创建引文报告

- State-of-the-art analysis of the environmental benefits of green roofs**  
作者: Berardi, Umberto; GhaffarianHoseini, AmirHosein; GhaffarianHoseini, Ali  
APPLIED ENERGY 卷: 115 页: 411-428 出版年: FEB 15 2014  
全文 | 查看摘要
- Processive Pectin Methylsterases: The Role of Electrostatic Potential, Breathing Motions and Bond Cleavage in the Rectification of Brownian Motions**  
作者: Mercadante, Davide; Melton, Laurence D.; Jameson, Geoffrey B.; 等.  
PLOS ONE 卷: 9 期: 2 文献号: e87581 出版年: FEB 4 2014  
全文 | 查看摘要
- Experimental and numerical investigation of urban street canyons to evaluate the impact of green roof inside and outside buildings**  
作者: Ouldboukhitine, Sahah-Eddine; Belarbi, Rafik; Saïfou, David J.  
APPLIED ENERGY 卷: 114 特刊: SI 页: 273-282 出版年: FEB 2014  
全文 | 查看摘要
- Benchmarks as a tool for free allocation through comparison with similar projects: Focused on multi-family housing complex**  
作者: Hong, Taehoon; Koo, Choongwan; Lee, Sungu  
APPLIED ENERGY 卷: 114 特刊: SI 页: 663-675 出版年: FEB 2014  
全文 | 查看摘要
- Quantifying the thermal performance of green facades: A critical review**  
作者: Hunter, Annie M.; Williams, Nicholas S. G.; Kayner, John P.; 等.  
ECOLOGICAL ENGINEERING 卷: 63 页: 101-113 出版年: FEB 2014  
全文 | 查看摘要

- 分析某研究课题的总体发展趋势。
- 找到该研究课题中潜在的合作者和合作机构。
- 对该课题领域的国家信息分析，例：国家内领先机构和高校等。
- 被引参考文献检索--了解某一研究理论是如何发展和被应用的，以发现新的研究思路。

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

The screenshot shows the Web of Science search results for the query: `(roof* green* or Green* Roof* or Roof* garden*)`. The results are sorted by citation frequency (降序). The top results are:

- 1. **Green roofs as urban ecosystems: Ecological structures, functions, and services** (Green roofs as urban ecosystems: Ecological structures, functions, and services) - 453 citations
- 2. **ENTROPY OF HYDROPHOBIC HYDRATION - A NEW STATISTICAL MECHANICAL FORMULATION** (ENTROPY OF HYDROPHOBIC HYDRATION - A NEW STATISTICAL MECHANICAL FORMULATION) - 147 citations
- 3. **Rhodope and vardar: the metamorphic and the olistostromic paired belts related to the Cretaceous subduction under Europe** (Rhodope and vardar: the metamorphic and the olistostromic paired belts related to the Cretaceous subduction under Europe) - 145 citations
- 4. **Uptake of a fluorescent marker in plant cells is sensitive to brefeldin A and wortmannin** (Uptake of a fluorescent marker in plant cells is sensitive to brefeldin A and wortmannin) - 134 citations
- 5. **Green roofs as urban ecosystems: Ecological structures, functions, and services** (Green roofs as urban ecosystems: Ecological structures, functions, and services) - 116 citations
- 6. **Analysis of the green roof thermal properties and investigation of its energy performance** (Analysis of the green roof thermal properties and investigation of its energy performance) - 116 citations
- 7. **KOJAK encodes a cellulose synthase-like protein required for root hair cell morphogenesis in Arabidopsis** (KOJAK encodes a cellulose synthase-like protein required for root hair cell morphogenesis in Arabidopsis) - 116 citations
- 8. **Green roofs as a tool for solving the rainwater runoff problem in the urbanized 21st century?** (Green roofs as a tool for solving the rainwater runoff problem in the urbanized 21st century?) - 112 citations

Annotations on the screenshot:

- 快速锁定高影响力的论文** (Quickly lock high-impact papers) - points to the sorting dropdown menu.
- 高被引论文** (Highly cited papers) - points to the citation counts of the top results.
- 机构 - 发现该领域高产出的大学及研究机构 有利于机构间的合作 发现深造的研究机构** (Institutions - Discover high-producing universities and research institutions in this field, which is beneficial for cooperation between institutions and discovering advanced research institutions) - points to the 'Institution Extension' sidebar.

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

WEB OF SCIENCE™



返回检索

我的工具

检索历史

标记结果列表

检索结果: 812

(来自 Web of Science 核心合集)

您的检索:

主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" ...更多内容

创建跟踪服务

精炼检索结果

在如下结果集内检索...

Web of Science 类别

- ENVIRONMENTAL SCIENCES (143)
- ENGINEERING ENVIRONMENTAL (121)
- ARCHITECTURE (111)
- ENGINEERING CIVIL (109)
- CONSTRUCTION BUILDING TECHNOLOGY (100)

更多选项/分类...

精炼

文献类型

- ARTICLE (653)
- REVIEW (39)

排序方式: 出版日期 (降序)

第 1 页, 共 82 页

选择页面



保存至 EndNote Online

添加到标记结果列表

1. **State-of-the-art analysis of the environmental benefits of green roofs**

作者: Berardi, Umberto; GhaffarianHoseini, AmirHosein; GhaffarianHoseini, Ali  
APPLIED ENERGY 卷: 115 页: 411-428 出版年: FEB 15 2014

[全文](#) [查看摘要](#)

2. **Processive Pectin Methylsterases: The Role of Pectin Methylsterases in the Cleavage in the Rectification of Brownian Motion**

作者: Mercadante, Davide; Melton, Laurence D.; Jamnik, Jozsef  
PLOS ONE 卷: 9 期: 2 文献号: e87581 出版年: FEB 2014

[全文](#) [查看摘要](#)

3. **Experimental and numerical investigation of urban street canyons to evaluate the impact of green roof inside and outside buildings**

作者: Ouldboukhitine, Salah-Eddine; Belarbi, Rafik; Sailor, David J.  
APPLIED ENERGY 卷: 114 特刊: SI 页: 273-282 出版年: FEB 2014

[全文](#) [查看摘要](#)

4. **Benchmarks as a tool for free allocation through comparison with similar projects: Focused on multi-family housing complex**

作者: Hong, Taehoon; Koo, Choongwan; Lee, Sungug  
APPLIED ENERGY 卷: 114 特刊: SI 页: 663-675 出版年: FEB 2014

[全文](#) [查看摘要](#)

5. **Quantifying the thermal performance of green facades: A critical review**

作者: Hunter, Annie M.; Williams, Nicholas S. G.; Rayner, John P.; 等.

分析检索结果

创建引文报告

被引频次: 0  
(来自 Web of Science 的核心合集)

点击引文报告图标  
可以对检索结果进行  
整体分析评估。

# 评估该课题的影响力 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

引文报告: 812

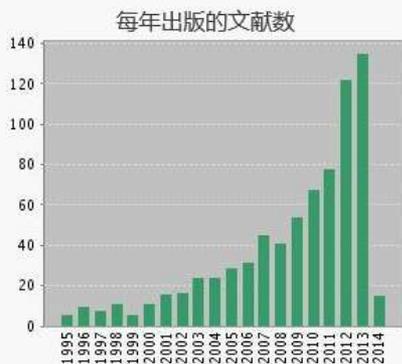
(来自 Web of Science 核心合集)

您的检索: 主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "living\* roof\*" or "ecorooft\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*") ...[更多内容](#)

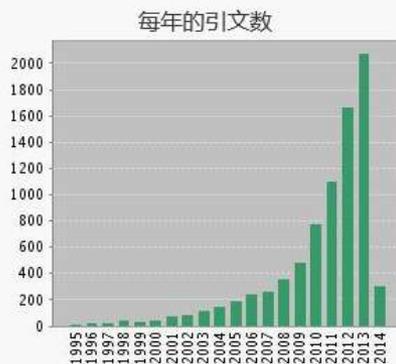
此报告中的引文均来源于Web of Science 核心合集收录的文献。执行“被引参考文献检索”，可查看Web of Science 核心合集未收录文献的引文。

H指数: 40

篇均被引10.14次



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找到的结果数:	812
被引频次总计[?]:	8233
去除自引的被引频次总计[?]:	4847
施引文献[?]:	4654
去除自引的施引文献[?]:	4253
每项平均引用次数[?]:	10.14
h-index [?]:	48

排序方式:  ▾

## 屋顶绿化课题引文情况, 了解发展趋势

◀ 第 1 页, 共 82 页 ▶

选择记录前面的复选框, 从“引文报告”中删除记录

或者限定在以下时间范围内出版的记录, 从  至

1. **Microalgae for Oil: Strain Selection, Induction of Lipid Synthesis and Outdoor Mass Cultivation in a Low-Cost Photobioreactor**

作者: Rodolfi, Liliana; Zittelli, Graziella Chini; Bassi, Niccolo; 等  
BIOTECHNOLOGY AND BIOENGINEERING 卷: 102 期: 1 页: 100-112 出版年: JAN 1 2009

2010	2011	2012	2013	2014	合计	平均引用次数/年
775	1105	1675	2074	310	8233	178.98
43	86	119	176	18	453	75.50

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

## 屋顶绿化课题美国学者发文影响力

引文报告: 239

(来自 Web of Science 核心合集)

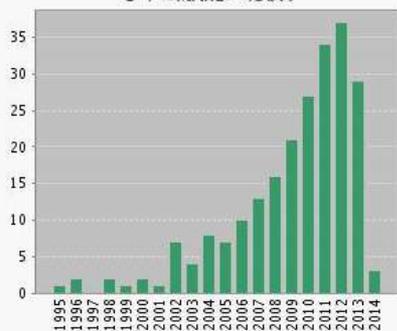
您的检索: 主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "lavin\* roof\*" or "ecorooft\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*") ...更多内容

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### H指数:31

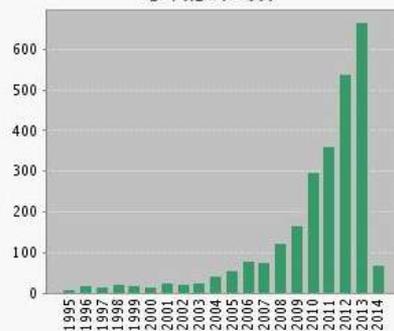
### 篇均被引11.18次

每年出版的文献数



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每年的引文数



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查看所有年份的图表。

找到的结果数:	239
被引频次总计 [?]:	2671
去除自引的被引频次总计 [?]:	2155
施引文献 [?]:	1615
去除自引的施引文献 [?]:	1505
每项平均引用次数 [?]:	11.18
h-index [?]:	31

排序方式: 被引频次 (降序)

第 1 页, 共 24 页

选择记录前面的复选框, 从“引文报告”中删除记录

或者限定在以下时间范围内出版的记录, 从 1900 至 2014 转至

1. ENTROPY OF HYDROPHOBIC HYDRATION - A NEW STATISTICAL MECHANICAL FORMULATION

作者: LAZARIDIS, T; PAULAITIS, ME  
JOURNAL OF PHYSICAL CHEMISTRY 卷: 96 期: 9 页: 3847-3855 出版年: APR 30 1992

2010	2011	2012	2013	2014	合计	平均引用次数/库
298	361	538	665	69	2671	106.84
6	4	9	3	0	147	6.39

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

## 屋顶绿化课题中国学者发文影响力

引文报告: 65

(来自 Web of Science 核心合集)

您的检索: 主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "living\* roof\*" or "ecorooft\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*") ...更多内容

此报告中的引文均来自于Web of Science 核心合集收录的文献。执行“被引参考文献检索”,可查看Web of Science 核心合集未收录文献的引文。

### H指数:11

### 篇均被引8.26次



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显示最近 20 年。

找到的结果数: 65  
被引频次总计[?]: 537  
去除自引的被引频次总计[?]: 453  
施引文献[?]: 427  
去除自引的施引文献[?]: 399  
每项平均引用次数[?]: 8.26  
h-index [?]: 11

排序方式: 被引频次 (降序)

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或者限定在以下时间范围内出版的记录, 从 1900 至 2014 转至

- 1. **Carbon Nanotubes as Molecular Transporters for Walled Plant Cells**  
作者: Liu, Qiaoling; Chen, Bo; Wang, Qinli; 等.  
NANO LETTERS 卷: 9 期: 3 页: 1007-1010 出版年: MAR 2009
- 2. **Recreation-amenity use and contingent valuation of urban greenspaces in Guangzhou, China**

2010	2011	2012	2013	2014	合计	平均引用次数/年
35	70	130	151	39	537	26.85
12	19	27	21	3	87	14.50

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

引文报告: 62

(来自 Web of Science 核心合集)

## 屋顶绿化课题英国学者发文影响力

您的检索: 主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "living\* roof\*" or "ecorooft\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*") ...[更多内容](#)

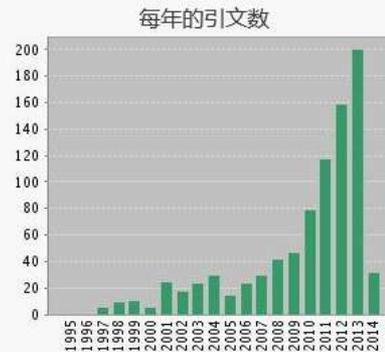
此报告中的引文均来自于Web of Science 核心合集收录的文献。执行“被引参考文献检索”，可查看Web of Science 核心合集未收录文献的引文。

### H指数:15

### 篇均被引14.29次



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找到的结果数: 62

被引频次总计[?]: 886

去除自引的被引频次总计[?]: 819

施引文献[?]: 757

去除自引的施引文献[?]: 730

每项平均引用次数[?]: 14.29

h-index [?]: 15

排序方式: **被引频次 (降序)**

第 1 页, 共 7 页

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1. **Green roofs as urban ecosystems: Ecological structures, functions, and services**

作者: Oberndorfer, Erica; Lundholm, Jeremy; Bass, Brad; 等  
BIOSCIENCE 卷: 57 期: 10 页: 823-833 出版年: NOV 2007

2010	2011	2012	2013	2014	合计	平均引用次数/年
79	118	159	200	32	886	30.55
14	30	24	31	2	116	14.50

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

## 屋顶绿化课题加拿大学者发文影响力

引文报告: 46

(来自 Web of Science 核心合集)

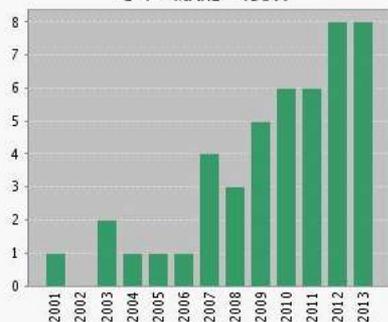
您的检索: 主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "living\* roof\*" or "ecorooft\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*") ...[更多内容](#)

此报告中的引文均来源于Web of Science 核心合集收录的文献。执行“被引参考文献检索”，可查看Web of Science 核心合集未收录文献的引文。

### H指数:10

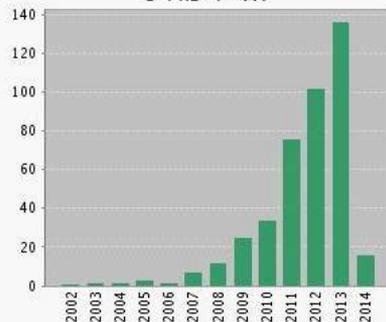
### 篇均被引9.09次

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找到的结果数:	46
被引频次总计[?]:	418
去除自引的被引频次总计[?]:	372
施引文献[?]:	296
去除自引的施引文献[?]:	278
每项平均引用次数[?]:	9.09
h-index [?]:	10

排序方式: **被引频次 (降序)**

第 1 页, 共 5 页

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1. [Green roofs as urban ecosystems: Ecological structures, functions, and services](#)

作者: Oberndorfer, Erica; Lundholm, Jeremy; Bass, Brad; 等.  
BIOSCIENCE 卷: 57 期: 10 页: 823-833 出版年: NOV 2007

2. [Comparative life cycle assessment of standard and green roofs](#)

2010	2011	2012	2013	2014	合计	平均引用次数/年
34	76	102	136	16	418	32.15
14	30	24	31	2	116	14.50

# 屋顶绿化的论文被哪些期刊引用？

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**每年的引文数**

显示最近 20 年 - 查看按年出版的图表。

得到的结果数: 788

被引频次总计 [次]: 8118

去除自引的被引频次总计 [次]: 4743

期刊文献 [件]: 4580

去除自引的期刊文献 [件]: 4184

每项平均引文次数 [次]: 10.30

h-index [次]: 48

将序方式: **被引频次 (降序)**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

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1. Microalgae for Oil: Strain Selection, Induction of Lipid Synthesis and Outdoor Mass Cultivation in a Low-Cost Photobioreactor	43	86	119	176	18	453	75.50
2. ENTROPY OF HYDROPHOBIC HYDRATION - A NEW STATISTICAL MECHANICAL FORMULATION	6	4	9	3	0	147	6.39
3. Rhodope and vardar: the metamorphic and the olistostromic paired belts related to the Cretaceous subduction under Europe	24	11	18	13	0	145	8.53

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排序方式: 被引频次 (降序)

分析检索结果

1. Pectins: structure, biosynthesis, and oligogalacturonide-related signaling  
作者: Ridley, BL, O'Neill, MA, Mohseni, DA  
会议: Symposium of the American Chemical Society 会议地点: SAN FRANCISCO, CA 会议日期: MAR 26-29, 2000  
会议资助商: Amer Chem Soc  
PHYTOCHEMISTRY 卷: 57 期: 6 页: 929-967 出版年: JUL 2001  
被引频次: 652  
(来自 Web of Science 的核心期刊)

2. The Arabidopsis GNOM ARF-GEF mediates endosomal recycling, auxin transport, and auxin-dependent plant growth  
作者: Calderer, N, Anders, N, Wolters, H, 等  
CELL 卷: 112 期: 2 页: 219-230 出版年: JAN 24 2003  
被引频次: 514  
(来自 Web of Science 的核心期刊)

3. Microalgae for biodiesel production and other applications: A review  
作者: Mata, Teresa M, Martins, Antonio A, Caetano, Nidia S  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 14 期: 1 页: 217-232 出版年: JAN 2010  
被引频次: 510  
(来自 Web of Science 的核心期刊)

4. SNARE-protein-mediated disease resistance at the plant cell wall  
作者: Collins, NC, Thordal-Christensen, H, Lipka, V, 等  
NATURE 卷: 425 期: 6961 页: 973-977 出版年: OCT 30 2003  
被引频次: 379  
(来自 Web of Science 的核心期刊)

5. Plant growth-promoting rhizobacteria as biofertilizers  
作者: Vessey, JK  
PLANT AND SOIL 卷: 255 期: 2 页: 571-586 出版年: AUG 2003  
被引频次: 377  
(来自 Web of Science 的核心期刊)

6. Toward a systems approach to understanding plant-cell walls  
作者: Somerville, C, Bauer, S, Brininstool, G, 等  
SCIENCE 卷: 305 期: 5705 页: 726-731 出版年: DEC 24 2004  
被引频次: 363  
(来自 Web of Science 的核心期刊)

7. An information theory model of hydrophobic interactions  
作者: Hummer, G, Garo, S, Garcia, A, 等  
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 卷: 95 期: 17 页: 8951-8955 出版年: AUG 20 1998  
被引频次: 354  
(来自 Web of Science 的核心期刊)

8. FIRST-PRINCIPLES CALCULATION OF THE FOLDING FREE-ENERGY OF A 3-HELIX BUNDLE PROTEIN  
被引频次: 327  
(来自 Web of Science 的核心期刊)

《建筑与环境》

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Web of Science 类别

文献类型

研究方向

作者

团体作者

编者

来源出版物名称

- BIORESOURCE TECHNOLOGY (119)
- ACTA HORTICULTURAE (91)
- BUILDING AND ENVIRONMENT (87)
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出版年

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您的检索:  
主题: "roof" green" or "Green Roof" or "rooftop garden" ... 更多内容

Web of Science 类别

文献类型

研究方向

作者

- JIM CY (38)
- BALUSKA F (30)
- KITTAJ C (25)
- SAMAJ J (23)
- BOULARD T (21)

更多选项/分类...

精炼

团体作者

编者

来源出版物名称

- BIORESOURCE TECHNOLOGY (119)
- ACTA HORTICULTURAE (81)
- BUILDING AND ENVIRONMENT (87)
- LANDSCAPE AND URBAN PLANNING (82)
- ENERGY AND BUILDINGS (72)

更多选项/分类...

精炼

排序方式: 索引频次 (降序)

第 1 页, 共 443 页

分析检索结果

- Pectins: structure, biosynthesis, and oligogalacturonide-related signaling**  
作者: Ridley, BL, O'Neill, MA, Mohnen, DA  
会议: Symposium of the American-Chemical-Society 会议地点: SAN FRANCISCO, CA 会议日期: MAR 26-29, 2000  
会议指南: Amer Chem Soc  
PHYTOCHEMISTRY 卷: 57 期: 6 页: 929-957 出版年: JUL 2001  
索引频次: 602  
(来自 Web of Science 的核心合集)  
[全文](#) [查看摘要](#)
- The Arabidopsis GNOM ARF-GEF mediates endosomal recycling, auxin transport, and auxin-dependent plant growth**  
作者: Geldner, N, Anders, N, Wolters, H, 等  
CELL 卷: 112 期: 2 页: 219-230 出版年: JAN 24 2003  
索引频次: 514  
(来自 Web of Science 的核心合集)  
[全文](#) [查看摘要](#)
- Microalgae for biodiesel production and other applications: A review**  
作者: Mata, Teresa M, Martins, Antonio A, Caetano, Nidia S  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 14 期: 1 页: 217-232 出版年: JAN 2010  
索引频次: 510  
(来自 Web of Science 的核心合集)  
[全文](#) [查看摘要](#)
- SNARE-protein-mediated disease resistance at the plant cell wall**  
作者: Collins, NC, Thordal-Christensen, H, Lipka, V, 等  
NATURE 卷: 425 期: 6961 页: 973-977 出版年: OCT 30 2003  
索引频次: 379  
(来自 Web of Science 的核心合集)  
[全文](#) [查看摘要](#)
- Plant growth promoting rhizobacteria as biofertilizers**  
作者: Vessey, JK  
PLANT AND SOIL 卷: 255 期: 2 页: 571-586 出版年: AUG 2003  
索引频次: 377  
(来自 Web of Science 的核心合集)  
[全文](#) [查看摘要](#)
- Toward a systems approach to understanding plant-cell walls**  
作者: Somerville, C, Bauer, S, Brininstone, G, 等  
SCIENCE 卷: 306 期: 5705 页: 2206-2211 出版年: DEC 24 2004  
索引频次: 363  
(来自 Web of Science 的核心合集)  
[全文](#) [查看摘要](#)
- An information theory model of hydrophobic interactions**  
作者: Hummer, G, Garcia, S, Garcia, AE, 等  
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 卷: 93 期: 17 页: 8951-8955 出版年: AUG 20 1996  
索引频次: 354  
(来自 Web of Science 的核心合集)  
[全文](#) [查看摘要](#)
- FIRST-PRINCIPLES CALCULATION OF THE FOLDING FREE-ENERGY OF A 3-HELIX BUNDLE**  
索引频次: 327  
(来自 Web of Science 的核心合集)

# 屋顶绿化的论文被哪些研究机构引用？

点击查看施引文献，在施引文献结果中点击分析检索结果，也可在精炼检索结果点击机构

The screenshot displays the Web of Science search results page. The search criteria are: **您的检索:** 主题: "roof green" or "Green Roof" or "roof garden" ... 更多内容. The results are sorted by **被引频次 (降序)**. The top results are:

- 1. **Pectins: structure, biosynthesis, and oligogalacturonide-related signaling** (被引频次: 652)
- 2. **The Arabidopsis GNUM ARF-GEF mediates endosomal recycling, auxin transport, and auxin-dependent plant growth** (被引频次: 514)
- 3. **Microalgae for biodiesel production and other applications: A review** (被引频次: 510)
- 4. **SNARE-protein-mediated disease resistance at the plant cell wall** (被引频次: 379)
- 5. **Plant growth promoting rhizobacteria as biofertilizers** (被引频次: 377)
- 6. **Toward a systems approach to understanding plant-cell walls** (被引频次: 363)
- 7. **An information theory model of hydrophobic interactions** (被引频次: 354)
- 8. **FIRST-PRINCIPLES CALCULATION OF THE FOLDING FREE-ENERGY OF A 3-HELIX BUNDLE PROTEIN** (被引频次: 327)

On the left sidebar, the **机构筛选** (Institution Filter) section is expanded, showing a list of institutions. Two arrows point from the text '了解潜在竞争对手' and '引用屋顶绿化论文最多的研究机构' to the 'CHINESE ACADEMY OF SCIENCES (113)' and 'UNIVERSITY OF CALIFORNIA SYSTEM (195)' entries, respectively.

了解潜在竞争对手

引用屋顶绿化论文最多的研究机构

# 屋顶绿化的论文被哪些研究国家引用？

点击查看施引文献，在施引文献结果中点击分析检索结果，也可在精炼检索结果点击机构

合计施引文献: 4,427  
(来自 Web of Science 核心合集)

您的检索:  
主题: /"roof garden" or "Green Roof" or "roof garden"  
[更多内容](#)

**精炼检索结果**

Web of Science 类别  
文献类型  
研究方向  
作者  
团体作者  
编者  
来源出版物名称  
丛书名称  
会议名称  
出版年  
机构/展  
基金资助机构  
语种  
**国家和地区**

- USA (1,178)
- PEOPLES R CHINA (508)
- ENGLAND (364)
- GERMANY (348)
- FRANCE (280)

排序方式: 被引频次 (降序)

分析检索结果

1. **Pectins: structure, biosynthesis, and oligogalacturonide-related signaling**  
作者: Ridley, BL, O'Neill, MA, Mohman, DA  
会议: Symposium of the American-Chemical-Society 会议地点: SAN FRANCISCO, CA 会议日期: MAR 26-29, 2000  
会议册的册: Amer Chem Soc PHYTOCHEMISTRY 卷: 57 期: 6 页: 929-967 出版年: JUL 2001  
被引频次: 652  
(来自 Web of Science 核心合集)

2. **The Arabidopsis GNOM ARF-GEF mediates endosomal recycling, auxin transport, and auxin-dependent plant growth**  
作者: Goldner, N, Anders, N, Wolters, H, 等  
CELL 卷: 112 期: 2 页: 219-230 出版年: JAN 24 2003  
被引频次: 514  
(来自 Web of Science 核心合集)

3. **Microalgae for biodiesel production and other applications: A review**  
作者: Mata, Teresa M, Martins, Antonio A, Caetano, Nidia S  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 14 期: 1 页: 217-232 出版年: JAN 2010  
被引频次: 510  
(来自 Web of Science 核心合集)

4. **SNARE-protein-mediated disease resistance at the plant cell wall**  
作者: Collins, NC, Thordal-Christensen, H, Lipka, V, 等  
NATURE 卷: 425 期: 6961 页: 973-977 出版年: OCT 30 2003  
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5. **Plant growth promoting rhizobacteria as biofertilizers**  
作者: Vessey, JK  
PLANT AND SOIL 卷: 255 期: 2 页: 571-586 出版年: AUG 2003  
被引频次: 377  
(来自 Web of Science 核心合集)

6. **Toward a systems approach to understanding plant-cell walls**  
作者: Somerville, C, Bauer, S, Brininstool, G, 等  
SCIENCE 卷: 306 期: 5705 页: 2206-2211 出版年: DEC 24 2004  
被引频次: 363  
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7. **An information theory model of hydrophobic interactions**  
作者: Hummer, G, Garcia, AE, 等  
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 卷: 93 期: 17 页: 8951-8955 出版年: AUG 20 1996  
被引频次: 344  
(来自 Web of Science 核心合集)

8. **FIRST-PRINCIPLES CALCULATION OF THE FOLDING FREE-ENERGY OF A 3-HELIX BUNDLE PROTEIN**  
作者: BOCZKO, EM, BROOKS, CL  
SCIENCE 卷: 269 期: 5272 页: 393-396 出版年: JUL 21 1995  
被引频次: 327  
(来自 Web of Science 核心合集)

9. **Bacterial mercury resistance from atoms to ecosystems**  
作者: Barkay, T, Miller, SM, Summers, AP  
被引频次: 319  
(来自 Web of Science 核心合集)

了解潜在竞争对手

# 屋顶绿化课题Web of Science平台检索的结果

The screenshot displays the Web of Science search interface. At the top, the 'WEB OF SCIENCE' logo and 'THOMSON REUTERS' are visible. A search bar contains the query: `r "sod roof" or "roof" plant* or "green" wall* or "wall" green* or "wall" plant*`. Below the search bar, the '时间跨度' (Time Span) section is set to '所有年份' (All Years) with a range from 1864 to 2015. The interface includes navigation links such as '客户反馈和技术支持', '其他资源', 'Web of Science 中的新功能', and '我的 Web of Science'. A footer banner reads 'Thomson Reuters - IP and Science'.

跨数据库检索

了解全球研究该课题情况

# 屋顶绿化课题Web of Science平台检索的结果

The screenshot shows the Web of Science interface with search results for 'roof green'. The search results are sorted by '出版日期 (降序)' (Publication Date, Descending). The results list includes:

- 1. The future of urban agriculture and biodiversity-ecosystem services: Challenges and next steps. 作者: Liu, Brenda B.; Philpott, Stacy M.; Jha, Shalene. BASIC AND APPLIED ECOLOGY 卷: 16 期: 3 页: 189-201 出版年: MAY 2015. 操作: 下载全文, 查看摘要.
- 2. Accumulated snow layer influence on the heat transfer process through green roof assemblies. 作者: Zhao, Mingjie; Seebic, Jelena; Berghage, Robert D.; 等. BUILDING AND ENVIRONMENT 卷: 87 页: 82-91 出版年: MAY 2015. 操作: 查看摘要.
- 3. Thermal performance characteristics of unshaded courtyards in hot and humid climates. 作者: Ghaffarianhoseini, Amirhosein; Berardi, Umberto; Ghaffarianhoseini, Ali. BUILDING AND ENVIRONMENT 卷: 87 页: 154-165 出版年: MAY 2015. 操作: 下载全文, 查看摘要.
- 4. Nutrient removal by different plants in wetland roof systems treating domestic wastewater. 作者: Phan Thi Hai Van; Nguyen Thanh Tin; Vu Thi Dieu Hien; 等. DESALINATION AND WATER TREATMENT 卷: 54 期: 4-6 页: 1344-1352 出版年: MAY 1 2015. 操作: 下载全文, 查看摘要.
- 5. The impact of greening systems on building energy performance: A literature review. 作者: Raj, Babak; Tangierik, Martin J.; van den Dobbelaere, Andy. RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 45 页: 610-623 出版年: MAY 2015. 操作: 下载全文, 查看摘要.
- 6. Using natural means to reduce surface transport noise during propagation outdoors. 作者: Van Renterghem, Timothy; Forsaen, Jens; Atherborough, Keith; 等. APPLIED ACOUSTICS 卷: 92 页: 86-101 出版年: MAY 2015. 操作: 下载全文, 查看摘要.

The interface also shows a search bar, navigation tabs (Home, Search, My Tools, Search History, Saved Lists), and a sidebar with filters for 'Refined Search Results', 'Database', 'Research Fields', and 'Research Direction'.

# 屋顶绿化课题中国科学引文索引检索结果

The screenshot displays the Web of Science search page. At the top, the navigation bar includes 'Web of Science™', 'InCites®', 'Journal Citation Reports®', 'Essential Science Indicators™', and 'EndNote®'. The main header features the 'WEB OF SCIENCE™' logo and the 'THOMSON REUTERS' logo. Below the header, there is a search bar with the text '检索' and '中国科学引文数据库™'. The search bar contains the query: "屋顶绿化" or "绿色屋顶" or "生态屋顶" or "屋顶花园" or "屋顶种植" or "墙面绿化". Below the search bar, there are options for '时间跨度' (Time Span) and '更多设置' (More Settings). The footer includes '客户反馈和技术支持', '其他资源', 'Web of Science 中的新增功能', and '定制您的体验'. The page is branded with '浙江理工大学' (Zhejiang University of Technology) and '浙大图书馆' (Zhejiang University Library).

基本检索

"屋顶绿化" or "绿色屋顶" or "生态屋顶" or "屋顶花园" or "屋顶种植" or "墙面绿化" 主题 检索

可以進行英文或简体中文检索 (正在進行中文检索)

时间跨度

所有年份

从 1989 至 2014

更多设置

客户反馈和技术支持 其他资源 Web of Science 中的新增功能 定制您的体验

浙大图书馆-AJIE 学术写作助手 英文论文从写到的最后一站式解决方案

浙江理工大学 Zhejiang University of Technology

浙大图书馆

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"屋顶绿化" or "绿色屋顶" or "生态屋顶"  
" or "屋顶花园" or "屋顶种植" or "墙面  
绿化" or "生态墙面" or "墙面种植"

# 屋顶绿化课题中国科学引文索引检索结果

The screenshot shows the Web of Science interface with search results for the topic of green roofs. The search criteria include '屋顶绿化' (green roof), '生态屋顶' (ecological roof), and '屋顶花园' (roof garden). The results are sorted by '出版日期' (publication date) in descending order, showing 148 results from the Chinese Science Citation Index.

**检索结果: 148**  
(来自 中国科学引文数据库)

您的检索: 主题: ("屋顶绿化" or "绿色屋顶" or "生态屋顶" or "屋顶花园" or "屋顶种植" or "墙面绿化" or "生态墙面" or "墙面种植") ... 更多内容

Web of Science™ | InCites™ | Journal Citation Reports® | Essential Science Indicators™ | EndNote™ | 教师 | 帮助 | 简体中文

WEB OF SCIENCE™ | THOMSON REUTERS®

检索 | 我的工具 | 检索历史 | 标记结果列表

排序方式: 出版日期(降序) | 页: 1 / 共 15 页

选择页面 | 保存至 EndNote online | 添加到标记结果列表 | 分析检索结果 | 创建引文报告

1. 城市绿色屋顶生物栖息地设计与营造研究  
Urban Green Roof Habitat Designing and Construction  
作者: 贺坤, 项耿明, 韦捷峰, 等  
作者: He Kun, Xiang Gengming, Wei Jiefeng, 等  
西北林学院学报 卷: 30 期: 1 页: 263-267,292 文献号: 1001-7461(2015)30:1<263-267,292> 出版年: 2015  
Journal of Northwest Forestry University 卷: 30 期: 1 页: 263-267,292 文献号: 1001-7461(2015)30:1<263-267,292> 出版年: 2015  
查看摘要

2. 低冲击开发模式基础措施性能研究现状及进展  
Situation and progress in the low-impact development of basic measures for performance  
作者: 牛志广, 董玲玲, 陈彦高  
作者: Niu Zhiguang, Dong Lingling, Chen Yarod  
安全与环境学报 卷: 14 期: 6 页: 320-325 文献号: 1009-6094(2014)14:6<320-325> 出版年: 2014  
Journal of Safety and Environment 卷: 14 期: 6 页: 320-325 文献号: 1009-6094(2014)14:6<320-325> 出版年: 2014  
查看摘要

3. 苏州市立体绿化植物调查及其应用形式比较分析  
Survey of three-dimensional greening plants and comparative analysis of their applications in Suzhou City  
作者: 武金翠, 孙树群, 潘文明, 等  
作者: Wu Jincui, Sun Shuqun, Pan Wenming, 等  
上海农业学报 卷: 30 期: 6 页: 123-127 文献号: 1000-3924(2014)30:6<123-127> 出版年: 2014  
Acta Agriculturae Shanghai 卷: 30 期: 6 页: 123-127 文献号: 1000-3924(2014)30:6<123-127> 出版年: 2014  
查看摘要

4. 广州地区8种草坪式屋顶绿化植物的抗旱性  
The drought stress tolerance of several lawn-style roof-green species in Guangzhou Area  
作者: 汤聪, 刘念, 郭威, 等  
作者: Tang Cong, Liu Nian, Guo Wei, 等

研究方向

- AGRICULTURE (36)
- CONSTRUCTION BUILDING TECHNOLOGY (32)
- FORESTRY (29)
- ENVIRONMENTAL SCIENCES ECOLOGY (25)
- ARCHITECTURE (19)

更多选项分类...

文献类型

- ARTICLE (141)
- REVIEW (6)
- SHORT PAPER (1)

更多选项分类...

作者

了解中国学者发表中文  
高水平论文情况

# 屋顶绿化课题中国科学引文索引检索结果

**WEB OF SCIENCE™** THOMSON REUTERS®

返回检索 我的工具 检索历史 标记结果列表

检索结果: ...  
(来自 中国科学引文数据库)

您的检索:  
主题: "屋顶绿化" or "绿色屋顶" or "生态屋顶" or "屋顶花园" or "屋顶种植" or "绿...更多  
内容

自相关分析

精炼检索结果

添加下组关键词在搜索

研究方向

- AGRICULTURE (31)
- CONSTRUCTION BUILDING TECHNOLOGY (29)
- FORESTRY (28)
- ENVIRONMENTAL SCIENCES ECOLOGY (20)
- ARCHITECTURE (16)

更多选项/分类...

精炼

文献类型

- ARTICLE (122)
- REVIEW (5)
- SHORT PAPER (1)

更多选项/分类...

精炼

作者

作者 - 中文

来源出版物名称

来源出版物名称 - 中文

来源出版物名称 - 中文 精炼 排除 取消 排序方式: 记录数

显示前 100 个来源出版物名称 - 中文 (按记录数)。 要获得更多选项, 请使用 分析检索结果。

<input type="checkbox"/> 广东农业科学 (12)	<input type="checkbox"/> 建筑结构 (2)	<input type="checkbox"/> 南方农业学报 (1)
<input type="checkbox"/> 安徽农业科学 (10)	<input type="checkbox"/> 林业科学 (2)	<input type="checkbox"/> 南京林业大学学报(自然科学版) (1)
<input type="checkbox"/> 中国给水排水 (8)	<input type="checkbox"/> 农业工程学报 (2)	<input type="checkbox"/> 水土保持与水利学报 (1)
<input type="checkbox"/> 园艺科学 (5)	<input type="checkbox"/> 生态环境 (2)	<input type="checkbox"/> 气候与环境研究 (1)
<input type="checkbox"/> 给水排水 (5)	<input type="checkbox"/> 水土保持通报 (2)	<input type="checkbox"/> 上海环境科学 (1)
<input type="checkbox"/> 西北林学大学学报 (5)	<input type="checkbox"/> 水土保持研究 (2)	<input type="checkbox"/> 沈阳农业大学学报 (1)
<input type="checkbox"/> 工业建筑 (4)	<input type="checkbox"/> 长江流域资源与环境 (1)	<input type="checkbox"/> 生态科学 (1)
<input type="checkbox"/> 环境科学与技术 (4)	<input type="checkbox"/> 东北林业大学学报 (1)	<input type="checkbox"/> 植物生态学报 (1)
<input type="checkbox"/> 江苏农业科学 (4)	<input type="checkbox"/> 干旱区资源与环境 (1)	<input type="checkbox"/> 水利学报 (1)
<input type="checkbox"/> 土木建筑与环境工程 (4)	<input type="checkbox"/> 光谱学进展 (1)	<input type="checkbox"/> 水力发电学报 (1)
<input type="checkbox"/> 中国水运 (4)	<input type="checkbox"/> 光谱学与光谱分析 (1)	<input type="checkbox"/> 水文 (1)
<input type="checkbox"/> 上海农业学报 (3)	<input type="checkbox"/> 广西植物 (1)	<input type="checkbox"/> 太阳辐射学报 (1)
<input type="checkbox"/> 生态学报 (3)	<input type="checkbox"/> 贵州农业科学 (1)	<input type="checkbox"/> 新疆农 (1)
<input type="checkbox"/> 浙江林学学报 (3)	<input type="checkbox"/> 合肥工业大学学报(自然科学版) (1)	<input type="checkbox"/> 浙江大学学报(工学版) (1)
<input type="checkbox"/> 重庆大学学报(自然科学版) (3)	<input type="checkbox"/> 湖北农业科学 (1)	<input type="checkbox"/> 浙江大学学报(理学版) (1)
<input type="checkbox"/> 重庆理工大学学报 (3)	<input type="checkbox"/> 华南理工大学学报(自然科学版) (1)	<input type="checkbox"/> 植物生态学报 (1)
<input type="checkbox"/> 城市环境与城市生态 (2)	<input type="checkbox"/> 环境工程学报 (1)	<input type="checkbox"/> 中国环境科学 (1)
<input type="checkbox"/> 黑龙江农业科学 (2)	<input type="checkbox"/> 环境科学 (1)	<input type="checkbox"/> 中国林业科技大学学报 (1)
<input type="checkbox"/> 福建农业科学 (2)	<input type="checkbox"/> 江苏农业学报 (1)	<input type="checkbox"/> 自然资源学报 (1)

屋顶绿化课题选择  
中文核心期刊投稿

# 了解中国学者发表屋顶绿化高水平论文的参考文献

The screenshot shows a Web of Science search results page. The search criteria are: 主题: ("屋顶绿化" OR "绿色屋顶" OR "生态屋顶" OR "屋顶花园" OR "屋顶种植" OR "绿...更多内容). The results are sorted by 出版日期 (降序). There are four results listed, each with a title, abstract, authors, journal information, and a '查看摘要' button. The results are:

- 1. 屋顶绿化传热临界温度**  
Indoor Temperature of Green Roof in Heat Transfer Critical State  
作者: 唐鸣勃, 杨真静, 郑引奎  
作者: Tang Mingfang, Yang Zhenjing, Zheng Shukai  
土木建筑与环境工程 卷: 35 期: 2 页: 100-104 文献号: 1674-4764(2013)35:2<100:WDLHCR>2.0.TX:2-W 出版年: 2013  
Journal of Civil, Architectural & Environmental Engineering 卷: 35 期: 2 页: 100-104 文献号: 1674-4764(2013)35:2<100:WDLHCR>2.0.TX:2-W 出版年: 2013
- 2. 粗放型屋顶绿化隔热效果分析**  
Analysis on Thermal Insulation Characteristics of Extensive Green Roofs  
作者: 杨真静, 唐鸣勃, 郑引奎  
作者: Yang Zhenjing, Tang Mingfang, Zheng Shukai  
土木建筑与环境工程 卷: 34 期: 3 页: 124-128 文献号: 1674-4764(2012)34:3<124:CFXWDL>2.0.TX:2-W 出版年: 2012  
Journal of Civil, Architectural & Environmental Engineering 卷: 34 期: 3 页: 124-128 文献号: 1674-4764(2012)34:3<124:CFXWDL>2.0.TX:2-W 出版年: 2012
- 3. 绿化屋面室内热环境研究**  
Indoor Thermal Environment for Green Roof  
作者: 杨真静, 唐鸣勃, 郑引奎  
作者: Yang Zhenjing, Tang Mingfang, Zheng Shukai  
土木建筑与环境工程 卷: 32 期: 4 页: 80-84 文献号: 1674-4764(2010)32:4<80:LHWDSN>2.0.TX:2-3 出版年: 2010  
Journal of Civil, Architectural & Environmental Engineering 卷: 32 期: 4 页: 80-84 文献号: 1674-4764(2010)32:4<80:LHWDSN>2.0.TX:2-3 出版年: 2010
- 4. 屋顶绿化节能热工评价**  
Thermal Performance and Energy Analysis of Green Roof  
作者: 唐鸣勃, 郑引奎, 杨真静  
作者: Tang Mingfang, Zheng Shukai, Yang Zhenjing  
土木建筑与环境工程 卷: 32 期: 2 页: 87-90 文献号: 1674-4764(2010)32:2<87:WDLHJN>2.0.TX:2-B 出版年: 2010  
Journal of Civil, Architectural & Environmental Engineering 卷: 32 期: 2 页: 87-90 文献号: 1674-4764(2010)32:2<87:WDLHJN>2.0.TX:2-B 出版年: 2010



# 了解中国学者发表屋顶绿化高水平论文的参考文献

返回检索

我的工具 检索历史 标记结果列表

引用的参考文献: 18  
(来自 中国科学引文数据库)  
[Analysis on Thermal Insulation Characteristics of Extensive Green Roofs...更多内容](#)

◀ 第 1 页, 共 1 页 ▶

选择页面: [保存至 EndNote Online](#) [添加到标记结果列表](#) [查找 Related Records >](#)

1. **Analysis of the green roofs cooling potential in buildings**  
作者: Barrio, EPO  
ENERGY BUILD 卷: 27 页: 179-93 出版年: 1998  
被引频次: 1  
(来自 中国科学引文数据库)
2. **Evaluating the thermal reduction effect of plant layers on rooftops** (查看 Web of Science 核心合集 中的记录)  
作者: Fang, Chih-Fang  
ENERGY AND BUILDINGS 卷: 40 期: 6 页: 1040-1052 出版年: 2010  
查看摘要  
被引频次: 2  
(来自 中国科学引文数据库)
3. **Theoretical and experimental analysis of the energy balance of extensive green roofs** (查看 Web of Science 核心合集 中的记录)  
作者: Fang, Chi-Ming; Qinglin, Zhang; Yufang, Zhang  
ENERGY AND BUILDINGS 卷: 42 期: 6 页: 959-965 出版年: JUN 2010  
查看摘要  
被引频次: 3  
(来自 中国科学引文数据库)
4. **Performance analysis of a planted roof as a passive cooling technique in hot-humid tropics** (查看 Web of Science 核心合集 中的记录)  
作者: Hodo-Abale, Samah; Banna, Magomeena; Zeghmal, Bekacem  
RENEWABLE ENERGY 卷: 39 期: 1 页: 140-148 出版年: MAR 2012  
查看摘要  
被引频次: 1  
(来自 中国科学引文数据库)
5. **屋顶花园发展现状 & 北方屋顶绿化植物选择与种植设计**  
**A Study on Present Situation of Roof Garden, Plant Select and Planting Design in Northern Roof Garden**  
作者: 高文丽; 李卫忠; 王福高, 等.  
作者: Ji Wenli; Li Weizhong; Wang Chengli, 等.  
西北林学院学报 卷: 20 期: 3 页: 180-183,188 文献号: 1001-7461(2005)20-3<180-WDHYFZ>2.0.TX;2-4 出版年: 2005  
Journal of Northwest Forestry College 卷: 20 期: 3 页: 180-183,188 文献号: 1001-7461(2005)20-3<180-WDHYFZ>2.0.TX;2-4 出版年: 2005  
查看摘要  
被引频次: 5  
(来自 中国科学引文数据库)
6. 标题 [不可用]  
作者: Lazzarin R M; Castellotti F; Busato F  
Energy and Buildings 页: 1260-1267 出版年: 2005  
被引频次: 1  
(来自 中国科学引文数据库)
7. 标题 [不可用]  
作者: Liu K; Minor J  
Performance evaluation of an extensive green roof 出版年: 2005  
被引频次: 1  
(来自 中国科学引文数据库)
8. **A green roof model for building energy simulation programs** (查看 Web of Science 核心合集 中的记录)  
作者: Sailor, D. J.  
ENERGY AND BUILDINGS 卷: 40 期: 6 页: 1460-1470 出版年: 2010  
查看摘要  
被引频次: 4  
(来自 中国科学引文数据库)

该论文的主要文献来自国外学者的论文



# 了解中国学者发表屋顶绿化高水平论文的参考文献

## 引用的参考文献: 25

(来自 中国科学引文数据库)

Resource potential assessment of urban roof greening and development strategies: a case study in Futu...[更多内页](#)

« 第 1 页, 共 1 页 »

选择页面



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添加到标记结果列表

[查找 Related Records >](#)

1. **Surveys of nondomestic buildings in four English towns** (查看 Web of Science 核心合集 中的记录)  
作者: Brown, FE; Rickaby, PA; Bruha, HR; 等  
ENVIRONMENT AND PLANNING B-PLANNING & DESIGN 卷: 27 期: 1 页: 11-24 出版年: JAN 2000  
[查看全文](#) 被引频次: 1  
(来自 中国科学引文数据库)
2. 标题 [不可用]  
作者: Cantor S L  
Green roofs in sustainable landscape design. 出版年: 2008.  
被引频次: 2  
(来自 中国科学引文数据库)
3. **Green roofs; building energy savings and the potential for retrofit** (查看 Web of Science 核心合集 中的记录)  
作者: Castleton, H. F.; Stovin, V.; Beck, S. B. M.; 等  
ENERGY AND BUILDINGS 卷: 42 期: 10 页: 1582-1591 出版年: OCT 2010  
[查看全文](#) 被引频次: 3  
(来自 中国科学引文数据库)
4. **Green roof valuation: A probabilistic economic analysis of environmental benefits** (查看 Web of Science 核心合集 中的记录)  
作者: Clark, Corrie; Adriaens, Peter; Talbot, F. Brian  
ENVIRONMENTAL SCIENCE & TECHNOLOGY 卷: 42 期: 6 页: 2155-2161 出版年: MAR 15 2008  
[查看全文](#) 被引频次: 1  
(来自 中国科学引文数据库)
5. **Green roof vegetation for North American ecoregions: A literature review** (查看 Web of Science 核心合集 中的记录)  
作者: Ovorok, Bruce; Volder, Astrid  
LANDSCAPE AND URBAN PLANNING 卷: 96 期: 4 页: 197-213 出版年: JUN 30 2010  
[查看全文](#) 被引频次: 2  
(来自 中国科学引文数据库)
6. **Green roof energy and water related performance in the Mediterranean climate** (查看 Web of Science 核心合集 中的记录)  
作者: Fiorelli, R.; Palla, A.; Lanza, L. G.; 等  
BUILDING AND ENVIRONMENT 卷: 45 期: 8 页: 1890-1904 出版年: AUG 2010  
[查看全文](#) 被引频次: 3  
(来自 中国科学引文数据库)
7. **Media depth influences Sedum green roof establishment** (查看 BIOSIS Citation Index 中的记录)  
作者: Gether, Kristin L.; Rows, D. Bradley  
Urban Ecosystems 卷: 11 期: 4 页: 361-372 出版年: DEC 2008  
[查看全文](#) 被引频次: 1  
(来自 中国科学引文数据库)
8. **Solar radiation intensity influences extensive green roof plant communities** (查看 Web of Science 核心合集 中的记录)  
作者: Gether, Kristin L.; Rows, D. Bradley; Clegg, Bert M  
URBAN FORESTRY & URBAN GREENING 卷: 8 期: 4 页: 269-281 出版年: 2009  
[查看全文](#) 被引频次: 1  
(来自 中国科学引文数据库)
9. 标题 [不可用]  
作者: Kincaid D  
Adapting Buildings for Changing Uses: Guidelines for Change of Use Refurbishment. 出版年: 2003  
被引频次: 1  
(来自 中国科学引文数据库)

# 中国城市化 (China Urbanize) —— 研究前沿

ISI Web of Knowledge™  
Essential Science Indicators™

WELCOME HELP RETURN TO MENU

RESEARCH FRONTS RANKINGS FOR CHINA URBANIZE

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	CHINESE HUKOU SYSTEM, HUKOU SYSTEM, 50 PERCENT POPULATION RUBICON, CHINA ABOLISHING, CHINA URBANIZE	3	137	45.67	2009.7

1 - 1 (of 1) Page 1 of 1

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中国的户籍制度, 户籍制度, 中国废除;中国城市化

# 中国城市化 ( China Urbanize) ——研究前沿

ISI Web of Knowledge™

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CORE PAPERS IN CHINESE HUKOU SYSTEM; HUKOU SYSTEM; 50 PERCENT POPULATION RUBICON; CHINA ABOLISHING; CHINA URBANIZE

Sorted by: Citations - SORT AGAIN

- 1 - 3 (of 3) Page 1 of 1
- 1 Citations: 65
- Title:** CHINA ABOLISHING THE HUKOU SYSTEM?
- Authors:** CHAN KW; BUCKINGHAM W
- Source:** [CHIN QUART](#)  
(195) 582-606 SEP 2008
- Addresses:** Univ Washington, Dept Geog, Seattle, WA 98195 USA.
- Field:** [SOCIAL SCIENCES, GENERAL](#)
- 2 Citations: 63
- Title:** THE CHINESE HUKOU SYSTEM AT 50
- Authors:** CHAN KW
- Source:** [EURASIAN GEOGR ECON](#)  
50 (2) 197-221 MAR-APR 2009
- Addresses:** Univ Washington, Dept Geog, Seattle, WA 98195 USA.
- Field:** [SOCIAL SCIENCES, GENERAL](#)
- 3 Citations: 9
- Title:** CROSSING THE 50 PERCENT POPULATION RUBICON: CAN CHINA URBANIZE TO PROSPERITY?
- Authors:** CHAN KW
- Source:** [EURASIAN GEOGR ECON](#)  
53 (1) 63-86 JAN-FEB 2012
- Addresses:** Univ Washington, Dept Geog, Seattle, WA 98195 USA.

# 中国城市化 (China Urbanize) — 研究前沿

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2013年1月

## RESEARCH FRONT

Sorted by: Citations

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1  	CHINESE HUKOU SYSTEM; 50 PERCENT POPULATION RUBICON; CHINA ABOLISHING; CHINA URBANIZE; CHINA'S RAPID URBANIZATION	4	118	29.50	2009.7

1 - 1 (of 1) Page 1 of 1

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中国户籍制度，中国废除，中国城市化，中国快速城市化

# 中国城市化 (China Urbanize) —— 研究前沿

CORE PAPERS IN CHINESE HUKOU SYSTEM; 50 PERCENT POPULATION RUBICON; CHINA ABOLISHING; CHINA URBANIZE; CHINA'S RAPID URBANIZATION

Sorted by: Citations		SORT AGAIN	
1 - 4 (of 4)		Page 1 of 1	
1 Citations: 49		RESEARCH FRONT	WEB OF SCIENCE
<b>Title:</b>	THE CHINESE HUKOU SYSTEM AT 50		
<b>Authors:</b>	<a href="#">CHAN KW</a>		
<b>Source:</b>	<a href="#">EURASIAN GEOGR ECON</a> 50 (2): 197-221 MAR-APR 2009		
<b>Addresses:</b>	<a href="#">Univ Washington</a> , Dept Geog, Seattle, WA 98195 USA.		
<b>Field:</b>	<a href="#">SOCIAL SCIENCES, GENERAL</a>		
2 Citations: 45		RESEARCH FRONT	WEB OF SCIENCE
<b>Title:</b>	CHINA ABOLISHING THE HUKOU SYSTEM?		
<b>Authors:</b>	<a href="#">CHAN KW</a> ; BUCKINGHAM W		
<b>Source:</b>	<a href="#">CHIN QUART</a> (195): 582-606 SEP 2008		
<b>Addresses:</b>	<a href="#">Univ Washington</a> , Dept Geog, Seattle, WA 98195 USA.		
<b>Field:</b>	<a href="#">SOCIAL SCIENCES, GENERAL</a>		
3 Citations: 19		RESEARCH FRONT	WEB OF SCIENCE
<b>Title:</b>	URBAN VILLAGES UNDER CHINA'S RAPID URBANIZATION: UNREGULATED ASSETS AND TRANSITIONAL NEIGHBOURHOODS		

中国快速城市化

# 追踪学科前沿——研究前沿

- 研究前沿采用独特的视角来审视学科领域：用以了解新的突破可能出现的领域以及科学家之间的非正式交流的关系
- 学科分类精确到学科或者期刊，而不是具体到单篇文章
- **研究前沿是一组高被引论文，是通过聚类分析而定义的核心论文。**
- 通过测量高被引论文之间的相关度而形成聚类。测度的方式是一对被统计论文的共被引次数。聚类的形成是通过按照特定的共引基线将论文分组而定义的
- 聚类的命名基于半自动化的词频处理过程而形成。

# 材料科学研究前沿

## ESI中基于研究前沿数据的全局科学关系图

材料科学以纳米科学前沿为中心，纳米科学是沟通物理与化学之间的桥梁，月生物学的联系较弱

材料科学领域之内或与之接近的其他重要研究前沿是太阳能电池、燃料电池和聚合作用。一些未做标记的较小圆圈代表塑性大块金属玻璃、负折射率材料、超疏水表面以及用于组织工程的类骨材料。

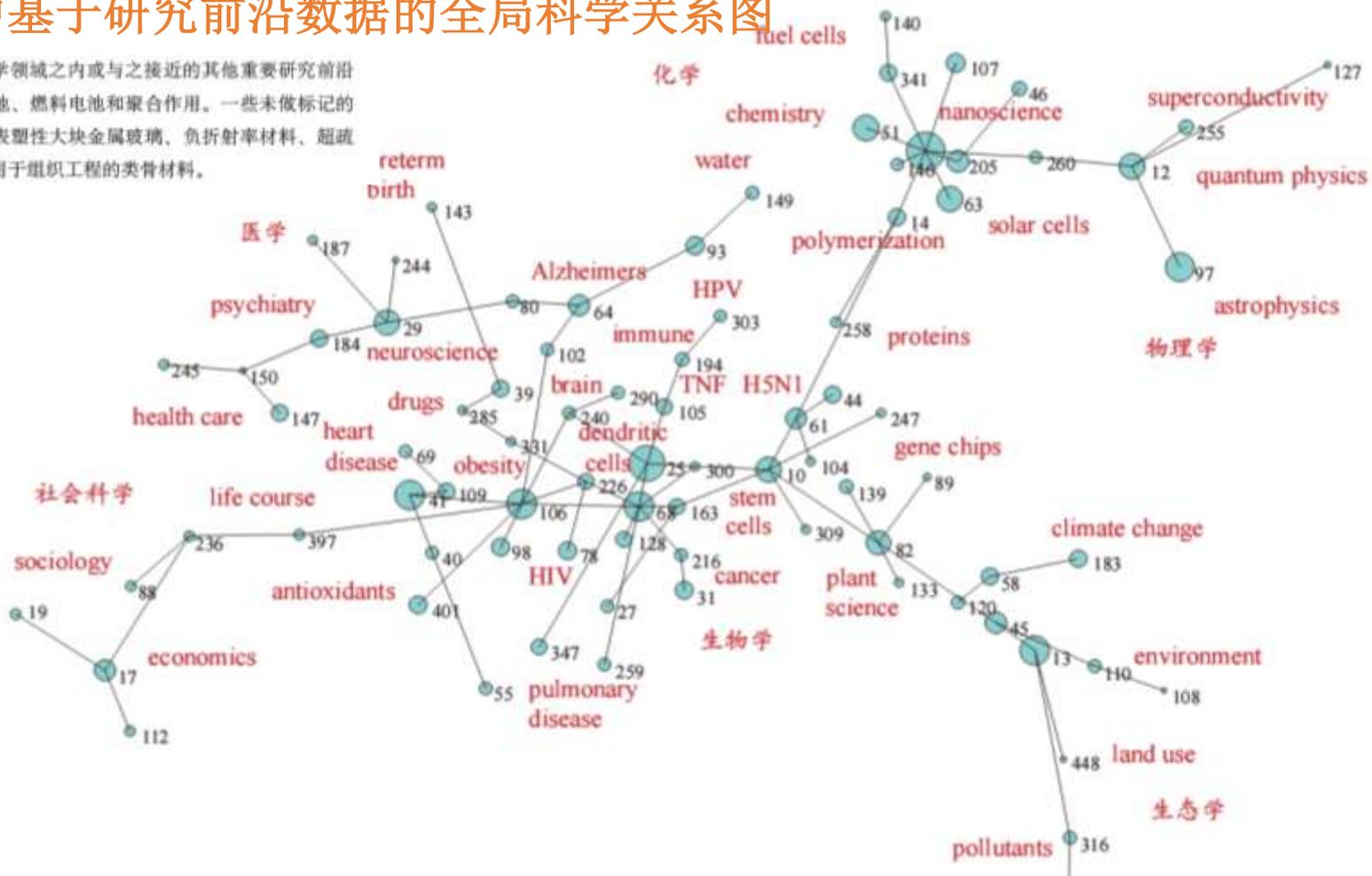


图3 Essential Science Indicators 中基于研究前沿数据的全局科学关系图。研究前沿是相关高被引论文(在其发表年份和领域按被引次数位于前1%的论文)的聚类。该图揭示了领域及专业主题及其基于引用联系的关系<sup>4</sup>。每个圆圈代表一个研究前沿或关于相关领域的广泛研究主题的多个研究前沿的聚类。每个圆圈的大小与其代表的专业领域内的论文数量呈比例，圆圈之间的连线表示一个领域与另一个领域之间关联的密切程度。标签反映了广泛研究领域和子领域。



# 2014年研究前沿

## ——自然科学和社会科学的前100个探索领域

### 1. 热点前沿

#### 1.1 经济学、心理学以及其他社会科学领域 Top 10 研究前沿发展态势

表 35 经济学、心理学以及其他社会科学领域 Top 10 研究前沿

排名	研究前沿	核心论文	被引频次	核心论文平均出版年
1	创新创业关键问题研究	49	1250	2011.4
2	实验心理学的统计验证和重复验证	20	1007	2011.3
3	南部非洲石器时代的人类居住和行为	25	1032	2011
4	家族企业管理与绩效研究	26	1001	2010.8
5	移动健康技术研究	20	1396	2010.7
6	基于人格特征分析的精神紊乱疾病诊断与统计研究 (DSM -5)	12	881	2010.7
7	环境服务及其支付问题与生态景观可持续性研究	29	1705	2010.6
8	早期智人的起源和演变	29	1149	2010.6
9	互联网社交的舆论和意见领袖形成机制及其商业应用	20	968	2010.5
10	多区域投入产出分析工具等结构分解分析方法在温室气体排放研究中的应用	44	2258	2010.3

# 2013年研究前沿

## ——自然科学和社会科学的前100个探索领域

经济学，心理学以及其他社会科学

排名	研究前沿	核心文献	引用次数	核心文献平均出版年
1	城市政策变化和全球治理问题	42	898	2010.4
2	家族企业的创业精神和绩效	30	1,051	2009.9
3	工作记忆的训练与可塑性	21	1,177	2009.8
4	以权责发生制为基础的收入管理和会计违规	17	1,148	2009.8
5	以病人为中心的医疗，基本保健，和责任界定	32	1,240	2009.7
6	社会学习策略和决策	39	3,642	2009.6
7	二氧化碳排放的投入产出分析	49	1,630	2009.6
8	对再认启发的研究	28	1,280	2009.6
9	消费者在线评论，社交网络，和在线显示的广告	37	1,609	2009.5
10	金融危机，流动性，和公司治理	37	1,595	2009.4

来源：汤森路透 Essential Science Indicators

# 2014年研究前沿

## ——自然科学和社会科学的前100个探索领域

### 1. 热点前沿

#### 1.1 化学与材料科学领域 Top 10 研究前沿发展态势

表 21 化学与材料科学领域 Top 10 研究前沿

排名	研究前沿	核心论文	被引频次	核心论文平均出版年
1	钠离子电池电极材料研究	45	1607	2012.2
2	功能性金属有机骨架化合物	8	2976	2012
3	柱 [5/6] 芳烃的合成与主客体化学	41	2058	2011.7
4	铈催化的碳氢键活化反应	36	1802	2011.7
5	基于石墨烯的光催化剂	19	1537	2011.7
6	石墨烯量子点的合成与应用	31	2340	2011.5
7	碳酸酐酶抑制剂的研究	27	2252	2011.1
8	石墨烯及其氧化物在生物医学领域的应用	44	5259	2011
9	基于聚合物的场效应晶体管和光伏器件	35	3255	2011
10	高对映选择性合成螺环化合物	22	1884	2011

# 2013年研究前沿

## ——自然科学和社会科学的前100个探索领域

### 化学与材料科学

排名	研究前沿	核心文献	引用次数	核心文献平均出版年
1	优化的可见光光催化制氢	43	1,620	2011.2
2	钌或铑催化的氧化的 C-H 键激活	46	1,900	2011.0
3	聚集诱导发光的特征和化合物	47	1,989	2010.9
4	有机合成中的光致氧化还原催化	32	1,945	2010.5
5	手性膦小分子催化不对称反应	35	1,927	2010.5
6	纳米孔 DNA 测序	33	1,914	2010.5
7	小分子溶液加工的体异质结型太阳能电池	31	1,841	2010.5
8	氮掺杂石墨烯	26	2,364	2010.4
9	卷绕加工的聚合物太阳能电池	35	3,969	2010.3
10	硅纳米线组成锂离子电池阳极材料	50	2,896	2010.3

来源: 汤森路透 Essential Science Indicators

# 2014年研究前沿

## ——自然科学和社会科学的前100个探索领域

### 1. 热点前沿

#### 1.1 数学、计算机科学与工程领域 Top 10 研究前沿发展态势

表 31 数学、计算机科学与工程领域 Top 10 研究前沿

排名	研究前沿	核心论文	被引频次	核心论文平均出版年
1	基于粒子群算法的搜索优化	41	961	2011.5
2	生物柴油燃料发动机使用性能与排放物监测	23	919	2011.5
3	弹性应变梯度理论	37	1174	2011.4
4	模糊李亚普诺夫方法	36	1116	2011.2
5	G-度量空间中的偶合不动点定理	30	985	2011.1
6	微分方程的应用	34	869	2011.1
7	电力电子及驱动的预测控制	35	1167	2011
8	钒氧化还原液流电池	22	1218	2010.9
9	锂离子电池用大容量电极	16	1004	2010.7
10	通过耗散理论研究实现换热器优化设计	26	942	2010.7

# 2013年研究前沿

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1	高能可充电锂-空气电池	49	2,006	2010.8
2	非线性分数阶微分方程的边界值问题	47	1,172	2010.2
3	生物柴油燃料燃烧的化学动力学反应机制	49	1,555	2010.0
4	非局部铁摩辛柯梁理论和碳纳米管	39	1,480	2009.8
5	受约束的全变分图像去噪与恢复	49	2,741	2009.7
6	石墨烯晶体管	16	2,270	2009.7
7	分析新一代DNA测序数据	6	2,025	2009.6
8	纳米流体传热	40	1,928	2009.6
9	二氧化碳捕获中的钙循环过程	36	1,562	2009.6
10	差分进化算法和Memetic计算	30	1,351	2009.6

来源: 汤森路透 Essential Science Indicators

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