

激发科研灵感 乐享创新成果  
**WEB OF SCIENCE**  
助力创新性研究

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Clarivate Analytics  
原汤森路透知识产权与科技事业部  
2017/4/19

# Outline

01

科学信息在科研过程中的作用

02

Web of Science™及引文索引简介

03

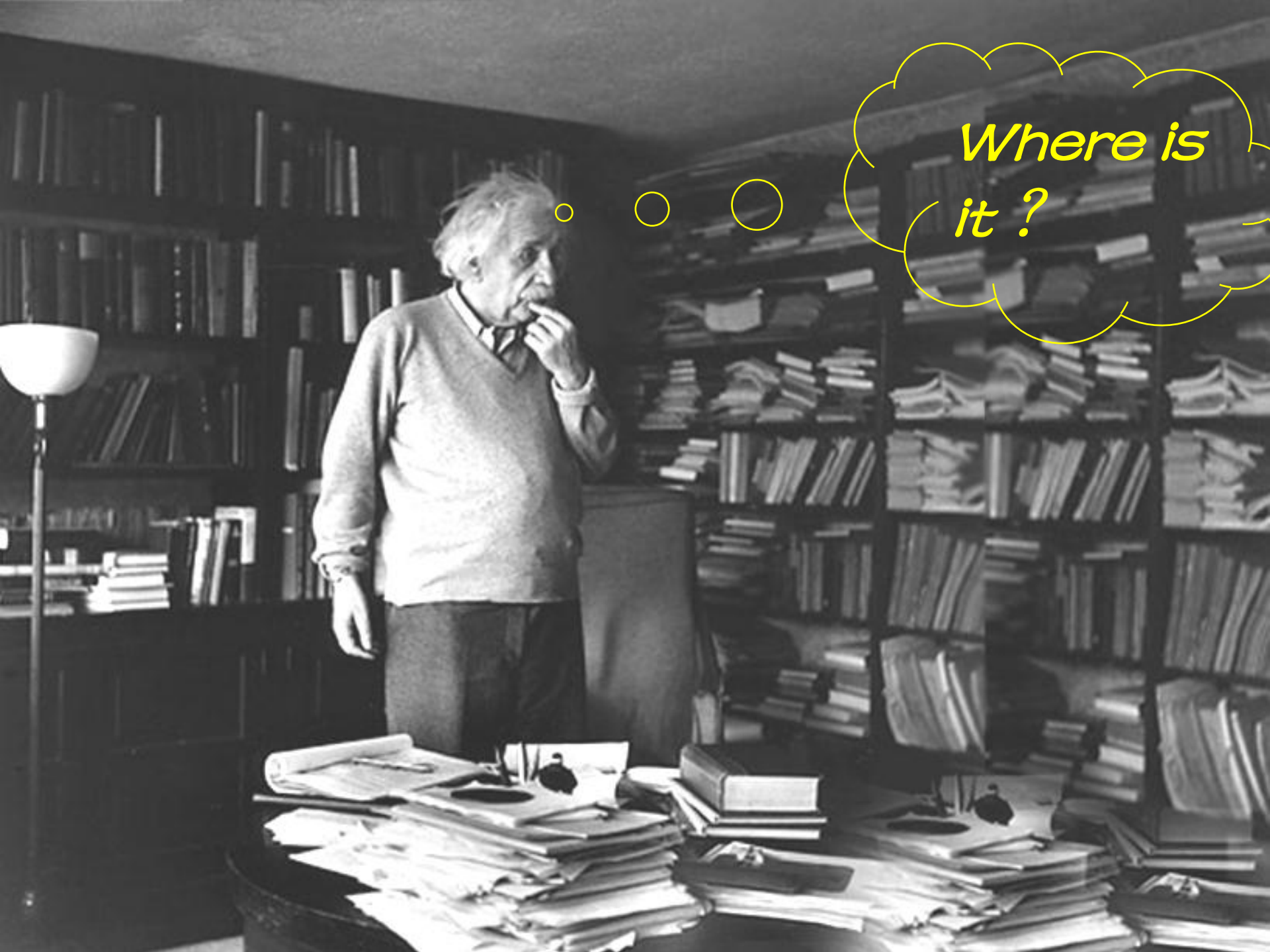
如何利用Web of Science™服务教学科研

04

学术出版

# 做好科学研究

掌握科技**文献**是前提



*Where is  
it?*

# Outline

- 01 科学信息在科研过程中的作用
- 02 Web of Science™及引文索引简介
- 03 如何利用Web of Science™服务教学科研
- 04 学术出版

# Web of Science™及引文索引简介

1961

2011



**1961 Science Citation Index®** revolutionizes scientific research

**1974 Derwent World Patents Index®** provides searchable access to patents from all technologies

**1997 Web of Science™** provides seamless access to information from worldwide research journals

**2001 Web of Knowledge™** provides a single research platform for journal literature, patents, chemical compounds, genetic sequencing and more

**2006 ScholarOne Manuscripts Management®** enables authors to create manuscripts in EndNote and seamlessly submit them for review

**2007 ResearchID** provides an invaluable index to accurate author identification and information

**2009 Thomson Reuters** launches InCites, the first ever tool to provide comprehensive, customized citation-based research evaluation on the Web

**2010 Thomson Reuters** undertakes massive data collection exercise, partnering with hundreds of universities worldwide in the Global Institutional Profiles Project

**2011 Thomson Reuters Research In View™** helps redefine research management. The enterprise-wide solution links and standardizes data from multiple sources, connecting scholarly activity across an entire institution

**Clarivate Analytics**

Formerly the IP & Science business of Thomson Reuters

# Web of Science™平台界面

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WEB OF SCIENCE™

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基本检索

示例: oil spill\* mediterranean

时间跨度

所有年份

从 1864 至 2013

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已订阅的数据库

所有数据库

通过一组共有的检索字段同时检索所订阅的全部产品，从而获得最为全面的检索结果。

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访问世界领先的自然科学、社会科学、艺术和人文领域的权威学术文献数据库；研究和分析国际会议、专题讨论会、研讨会、座谈会、研习会和代表会议的会议文集。

[更少]

借助被引参考文献检索和作者甄别工具进行浏览  
借助引证关系图直观展示引用关系  
借助引文报告功能以图形方式揭示引用活动和趋势  
使用分析工具确定研究趋向和模式  
文献回溯至 1900 年

您的版本:

- Science Citation Index Expanded (1900-至今)
- Social Sciences Citation Index (1900-至今)
- Arts & Humanities Citation Index (1975-至今)
- Conference Proceedings Citation Index - Science (1990-至今)
- Conference Proceedings Citation Index - Social Science & Humanities (1990-至今)
- Book Citation Index- Science (2005-至今)
- Book Citation Index- Social Sciences & Humanities (2005-至今)
- Current Chemical Reactions (1985-至今)

(包括 Institut National de la Propriete Industrielle 化学结构数据库, 可回溯至 1840 年)  
Index Chemicus (1993-至今)

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BIOSIS Citation Index SM (1926-至今)

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生命科学与生物医学研究工具，内容涵盖临床前和实验室研究、仪器和方法、动物学研究等。

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世界顶尖的动物学分类参考文献与建立时间最早的相关连续数据库。

[更多内容]

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广度

Quality

质量

Depth

深度

Unique  
Data

独特

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# Web of Science™核心合集数据库——广度

- ❖ Science Citation Index Expanded (科学引文索引) 176个学科的**8800多种**高质量学术期刊。
- ❖ Social Sciences Citation Index (社会科学引文索引) 56个社会科学学科的**3200多种**权威学术期刊。
- ❖ Arts & Humanities Citation Index (艺术与人文引文索引) 收录28个人文艺术领域学科的**1700多种**国际性、高影响力的学术期刊的数据内容。
- ❖ Conference Proceedings Citation Index – Science+ Social Science & Humanities(会议录引文索引- 自然科学版+ 社会科学与人文版) 超过**160,000个会议录**，有自然科学、社会科学两个版本，涉及250多个学科。
- ❖ Emerging Sources Citation Index 截止至2017年2月收录**6300多种学术专著**，且每个星期都在增加。

WEB OF SCIENCE

截止日期至2016/11/11

# Web of Science™核心合集数据库——质量



# Web of Science™核心合集数据库——深度

SCI  
SSCI  
1900年



A&HCI  
1975年

CPCI  
1990年

BKCI  
2005年



基于早期的期刊、报告、出版物来定位当前研究；  
追溯某一观点从首次提出至今的历史脉络与方法论；  
进行更深入、更全面的检索，并跟踪百年的研究发展趋势。

# Web of Science™核心合集数据库——独特性

## Citation Index 引文索引

- Dr. Garfield 1955年在 *Science* 发表论文提出将引文索引作为一种新的文献检索与分类工具



**Dr. Eugene Garfield**

Founder & Chairman Emeritus  
ISI, Thomson Scientific

### Citation Indexes for Science

A New Dimension in Documentation

through Association of Ideas

Eugene Garfield

# CI — CITATION INDEX

“The uncritical citation of disputed approach to subject control of the litera-

**Dr. Garfield**认为：将一篇文献作为检索字段从而跟踪一个Idea的发展过程及学科之间的交叉渗透的关系。

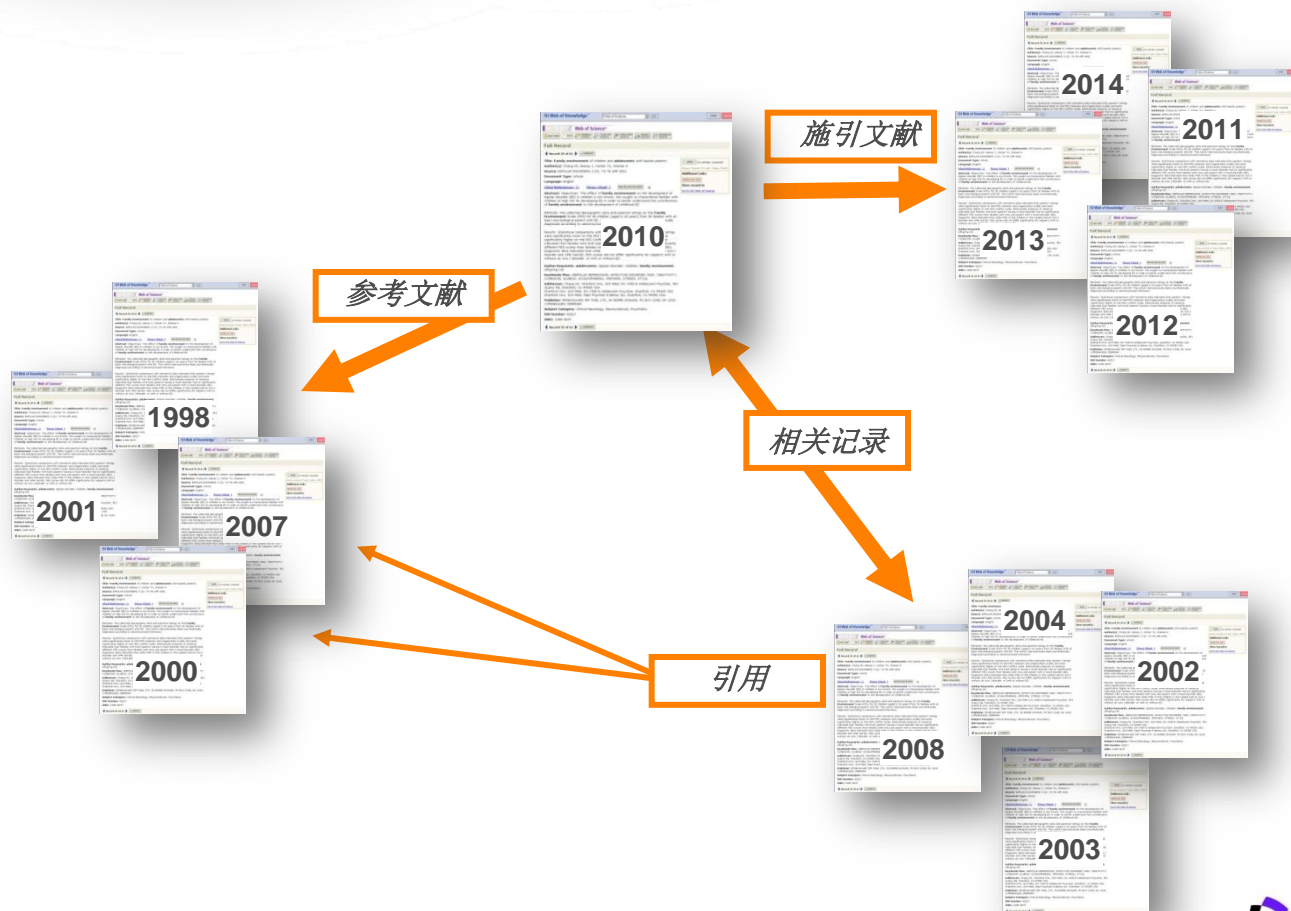
critical notes are increasingly likely to be overlooked with the passage of time, while the studies to which they pertain, having been reported more widely, are discovered

tional subject indexes but only within the limits of a particular subject heading.

If one considers the book as the macro unit of thought and the periodical article micro though the

从一篇高质量的文献出发，沿着科学研究的发展道路……

引文索引系统打破了传统的学科分类界限，既能揭示某一学科的继承与发展关系，又能反映学科之间的交叉渗透的关系。



# Outline

- 01 科学信息在科研过程中的作用
- 02 Web of Science™及引文索引简介
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- 04 学术出版



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- 数据库利用网络培训：EBSCO数据库 2017-04-05
- 图书馆新增免费资源使用通知 2017-04-05
- 图书馆“清明节”闭馆通知 2017-03-30
- 国研网系列数据库试用通知 2017-03-28
- 校工会再次到图书馆送温暖 2017-03-16
- 艺术设计学院师群教授向图书馆赠送画作 2017-03-15
- Lexis.com全球法律信息数据库试用通知 2017-03-12
- 河南财经政法大学图书馆同仁来我校逸夫图书馆参观考察 2017-03-02

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- 文明公约
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- 论文提交
- 借阅规则
- 查阅规则
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- 馆藏书目检索
- 读者信息检索
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- 学术搜索与全文递送

#### 参考咨询 MORE▶

- 讲座平台
- 学术研究
- 书刊分类
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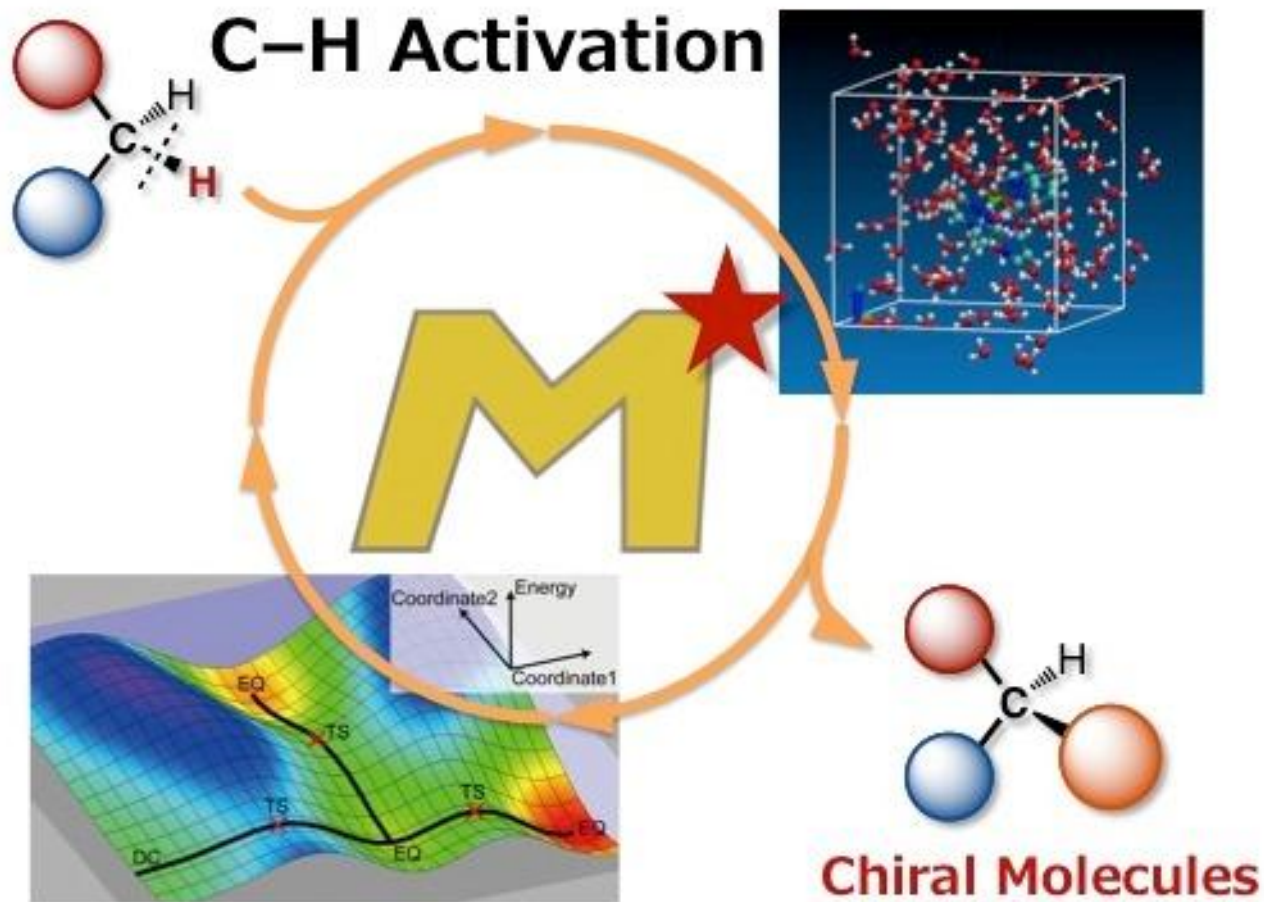


### 外文资源

● 学术搜索与全文递送系统	(54084)	2012-09-03
● Emerald全文期刊回溯库（管理学、工程学）	(1653)	2016-04-26
● JCR期刊分区数据在线平台	(4187)	2015-11-16
● Science科学周刊	(15253)	2014-10-20
● Nature自然周刊	(9197)	2014-10-19
● Elsevier SDOL电子期刊数据库	(64779)	2014-10-18
● SCI/SSCI/A&HCI/CPCI-S/CPCI-SS/OCR/IC/MEDLINE数据库	(51577)	2014-10-17
● Springerlink电子期刊	(29060)	2014-10-16
● IEEE/IEL（美国电气电子工程师学会）数据库	(12541)	2014-10-15
● RSC（英国皇家化学学会）数据库	(12155)	2014-10-14
● ACS（美国化学学会）电子期刊	(15153)	2014-10-13
● EI（工程索引）- compendexWeb	(20376)	2014-10-12
● EBSCO全文数据库（食品科学、美国经济学会经济学、环境科学）	(8399)	2014-10-11
● Wiley Online Library在线期刊数据库	(7835)	2014-10-10
● SciFinder Academic（美国化学文摘网络版）数据库	(8072)	2014-09-11
● I Mech E（英国机械工程师学会）电子期刊	(2946)	2014-09-10
● ACM（美国计算机学会）数据库	(3341)	2014-09-09



# 实例——碳氢活化领域的相关研究



Source: [https://www.jst.go.jp/act-c/en/research\\_area/ongoing/sawamura\\_en.html](https://www.jst.go.jp/act-c/en/research_area/ongoing/sawamura_en.html)

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Basic Search

Tips: 使用逻辑运算符 + \*

"carbon-hydrogen activat\*" or "C-H activat\*" or "Carbon hydrogen activat\*" or "

Topic

Search

Click here for tips to improve your search.

搜索与C-H键活化相关的关键词

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Results: 9,027

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◀ Page 1 of 903 ▶

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1. **Aryl-aryl bond formation one century after the discovery of the Ullmann reaction**



By: Hassan, J; Sevignon, M; Gozzi, C; et al.  
CHEMICAL REVIEWS Volume: 102 Issue: 5 Pages: 1359-1469 Published: MAY 2002



Full Text from Publisher

2. **Aryl-aryl bond formation by transition-metal-catalyzed direct arylation**



By: Alberico, Dino; Scott, Mark E.; Lautens, Mark  
CHEMICAL REVIEWS Volume: 107 Issue: 1 Pages: 174-238 Published: JAN 2007



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3. **Palladium(II)-Catalyzed C-H Activation/C-C Cross-Coupling Reactions: Versatility and Practicality**



By: Chen, Xiao; Engle, Keary M.; Wang, Dong-Hui; et al.  
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION Volume: 48 Issue: 28 Pages: 5094-5115 Published: 2009



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Times Cited -- highest to lowest

Times Cited -- lowest to highest

Usage Count -- Last 180 days

Usage Count -- Since 2013

Relevance

First Author -- A to Z

检索排序方式

Page 1 of 903

2. Aryl-aryl bond formation by transition-metal-catalyzed direct arylation



By: Alberico, Dino; Scott, Mark E.; Lautens, Mark  
CHEMICAL REVIEWS Volume: 107 Issue: 1 Pages: 174-238 Published: JAN 2007



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3. Palladium(II)-Catalyzed C-H Activation/C-C Cross-Coupling Reactions: Versatility and Practicality



By: Chen, Xiao; Engle, Keary M.; Wang, Dong-Hui; et al.  
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION Volume: 48 Issue: 28 Pages: 5094-5115 Published: 2009



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## Aryl-aryl bond formation by transition-metal-catalyzed direct arylation

By: Alberico, D (Alberico, Dino); Scott, ME (Scott, Mark E.); Lautens, M (Lautens, Mark)

### CHEMICAL REVIEWS

Volume: 107 Issue: 1 Pages: 174-238

DOI: 10.1021/cr0509760

Published: JAN 2007

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### Keywords

**KeyWords Plus:** C-H ACTIVATION; BIARYL COUPLING REACTION; POLYCYCLIC AROMATIC-HYDROCARBONS; ENANTIOSELECTIVE TOTAL SYNTHESIS; HIV-1 REVERSE-TRANSCRIPTASE; ACTIVE PALLADIUM CATALYSTS; HECK REACTION CONDITIONS; CONCISE TOTAL SYNTHESIS; ONE-POT SYNTHESIS; INTRAMOLECULAR ARYLATION

### Author Information

**Reprint Address:** Lautens, M (reprint author)

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**E-mail Addresses:** [mlautens@chem.utoronto.ca](mailto:mlautens@chem.utoronto.ca)

### Publisher

AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036 USA

### Categories / Classification

**Research Areas:** Chemistry

**Web of Science Categories:** Chemistry, Multidisciplinary

### Document Information

**Document Type:** Review

**Language:** English

### Citation Network

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336 Cited References

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*(data from Web of Science™ Core Collection)*

### All Times Cited Counts

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24 in Chinese Science Citation Database

0 in Data Citation Index

0 in Russian Science Citation Index

3 in SciELO Citation Index

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Last 180 Days: 53

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- 过去10年中发表的论文,被引用次数在同年同学科发表的论文中进入全球前1%

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(来自 Web of Science 的核心合集)

 高被引论文

## 热点论文 (Hot Paper)

- 过去2年中所发表的论文,在最近两个月中其影响力排在某学科前0.1%的论文

被引频次: 4  
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 热点论文



# 碳氢活化领域全球近十年的高被引论文

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Editors

Source Titles

Sort by: Times Cited -- highest to lowest

Page 1 of 18

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Save to Other File For...

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1. **C-H bond activation enables the rapid construction and late-stage diversification of functional molecules**  
By: Wencel-Delord, Joanna; Glorius, Frank  
NATURE CHEMISTRY Volume: 5 Issue: 5 Pages: 369-375 Published: MAY 2013  
 [Full Text from Publisher](#) [View Abstract](#)
2. **Functionalization of Organic Molecules by Transition-Metal-Catalyzed C(sp<sup>3</sup>)-H Activation**  
By: Jazzar, Rodolphe; Hitce, Julien; Renaudat, Alice; et al.  
CHEMISTRY-A EUROPEAN JOURNAL Volume: 16 Issue: 9 Pages: 2654-2672 Published: 2010  
 [Full Text from Publisher](#) [View Abstract](#)
3. **Palladium-catalyzed benzene arylation: Incorporation of catalytic pivalic acid as a proton shuttle and a key element in catalyst design**  
  
By: Lafrance, Marc; Fagnou, Keith  
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 128 Issue: 51 Pages: 16496-16497 Published: DEC 27 2006  
 [Full Text from Publisher](#)
4. **Catalytic intermolecular direct arylation of perfluorobenzenes**  
  
By: Lafrance, Marc; Rowley, Christopher N.; Woo, Tom K.; et al.  
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 128 Issue: 27 Pages: 8754-8756 Article Number: JA062509L Published: JUL 12 2006  
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# 碳氢活化领域全球近两年的热点论文

Results: 7

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You searched for: TOPIC: ("carbon-hydrogen activat\*" or "C-H activat\*" or "Carbon hydrogen activat\*" or "carbon-hydrogen function\*") ...More

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Page 1 of 1

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1. **Co(III)-Catalyzed C-H Activation/Formal S-N-Type Reactions: Selective and Efficient Cyanation, Halogenation, and Allylation**  
 5K  
By: Yu, Da-Gang; Gensch, Tobias; de Azambuja, Francisco; et al.  
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 136 Issue: 51 Pages: 17722-17725 Published: DEC 24 2014  
 Full Text from Publisher View Abstract
2. **Metal-Ligand Cooperation**  
By: Khusnutdinova, Julia R.; Milstein, David  
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION Volume: 54 Issue: 42 Special Issue: SI Pages: 12236-12273 Published: OCT 12 2015  
 Full Text from Publisher View Abstract
3. **Site-selective arene C-H amination via photoredox catalysis**  
By: Romero, Nathan A.; Margrey, Kaila A.; Tay, Nicholas E.; et al.  
SCIENCE Volume: 349 Issue: 6254 Pages: 1326-1330 Published: SEP 18 2015  
 Full Text from Publisher View Abstract

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Times Cited: 154  
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Hot Paper

Highly Cited Paper

Usage Count

Times Cited: 89  
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# 锁定特定学科领域论文

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- CHEMISTRY ORGANIC (3,830)
- CHEMISTRY MULTIDISCIPLINARY (3,600)
- CHEMISTRY INORGANIC NUCLEAR (2,416)
- CHEMISTRY PHYSICAL (654)
- CHEMISTRY APPLIED (353)
- PHYSICS ATOMIC MOLECULAR CHEMICAL (126)
- ENGINEERING CHEMICAL (81)
- MULTIDISCIPLINARY SCIENCES (72)
- CRYSTALLOGRAPHY (68)
- MATERIALS SCIENCE MULTIDISCIPLINARY (56)
- BIOCHEMISTRY MOLECULAR BIOLOGY (56)
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- ENERGY FUELS (14)
- PHARMACOLOGY PHARMACY (11)
- ELECTROCHEMISTRY (11)
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- MATERIALS SCIENCE COATINGS FILMS (6)
- COMPUTER SCIENCE INTERDISCIPLINARY APPLICATIONS (6)
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- METALLURGY METALLURGICAL ENGINEERING (3)
- MATERIALS SCIENCE TEXTILES (3)
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- WATER RESOURCES (1)
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- PHYSICS MATHEMATICAL (1)
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- NUCLEAR SCIENCE TECHNOLOGY (1)
- MICROBIOLOGY (1)
- MECHANICS (1)
- MATHEMATICS APPLIED (1)
- MATHEMATICAL COMPUTATIONAL BIOLOGY (1)
- MATERIALS SCIENCE COMPOSITES (1)
- MATERIALS SCIENCE CERAMICS (1)
- INSTRUMENTS INSTRUMENTATION (1)
- FOOD SCIENCE TECHNOLOGY (1)
- ENGINEERING PETROLEUM (1)
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- COMPUTER SCIENCE ARTIFICIAL INTELLIGENCE (1)
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ENERGY FUELS

# 碳氢活化在能源领域的论文

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Full Text from Publisher

By: LABINGER, JA

View Abstract

View Abstract

METHANE ACTIVATION IN HOMOGENEOUS SYSTEMS

By: LABINGER, JA

C-H activation: making diketopyrrolopyrrole derivatives easily accessible

By: Liu, Shi-Yong; Shi, Min-Min; Huang, Jia-Chi; et al.  
JOURNAL OF MATERIALS CHEMISTRY A Volume: 1 Issue: 8 Pages: 2795-2805 Published: 2013

0.8Sr0.2Ni0.8M0.2O3 perovskite (M = Bi, Co, Cr, Cu, Fe): Roles in carbon suppression

J ENERGY Volume: 37 Issue: 15 Pages: 11195-11207 Published: 2013

Ni-La2O3 catalyst for CO2 reforming of CH4: Role of surface carbon suppression

J ENERGY Volume: 36 Issue: 22 Pages: 14435-14446 Published: 2013

Page 1 of 2

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Times Cited: 111  
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Times Cited: 70  
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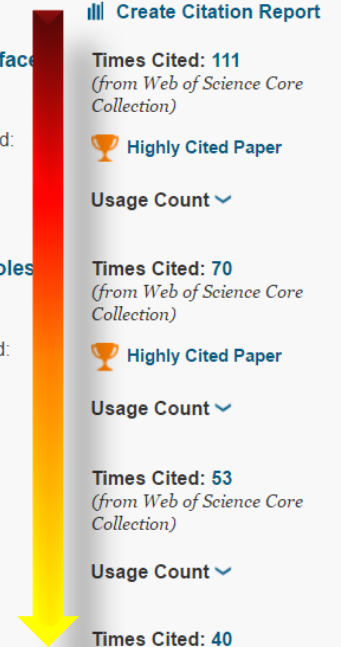
Highly Cited Paper

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Times Cited: 40  
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You searched for: TOPIC: ("c-h activation" or "carbon-hydrogen activation" or "c-h activation") ...More

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- |  |  |  |  |
|--|--|--|--|
| <input type="checkbox"/> ARTICLE (8,019)         | <input type="checkbox"/> BOOK CHAPTER (129)      | <input type="checkbox"/> EDITORIAL MATERIAL (40) | <input type="checkbox"/> NEWS ITEM (7)           |
| <input checked="" type="checkbox"/> REVIEW (811) | <input type="checkbox"/> PROCEEDINGS PAPER (114) | <input type="checkbox"/> CORRECTION (23)         | <input type="checkbox"/> CORRECTION ADDITION (2) |
| <input type="checkbox"/> MEETING ABSTRACT (246)  | <input type="checkbox"/> NOTE (65)               | <input type="checkbox"/> LETTER (8)              | <input type="checkbox"/> BOOK (2)                |

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# 分析已有文献的信息价值

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Results: 9,027

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You searched for: TOPIC: ("carbon-hydrogen activat\*" or "C-H activat\*" or "Carbon hydrogen activat\*" or "carbon-hydrogen function\*") ...More

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分析结果



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Create Citation Report

1. Aryl-aryl bond formation one century after the discovery of the Ullmann reaction



By: Hassan, J; Sevignon, M; Gozzi, C; et al.  
CHEMICAL REVIEWS Volume: 102 Issue: 5 Pages: 1359-1469 Published: MAY 2002



Full Text from Publisher

2. Aryl-aryl bond formation by transition-metal-catalyzed direct arylation



By: Alberico, Dino; Scott, Mark E.; Lautens, Mark  
CHEMICAL REVIEWS Volume: 107 Issue: 1 Pages: 174-238 Published: JAN 2007



Full Text from Publisher

3. Palladium(II)-Catalyzed C-H Activation/C-C Cross-Coupling Reactions: Versatility and Practicality



By: Chen, Xiao; Engle, Keary M.; Wang, Dong-Hui; et al.  
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION Volume: 48 Issue: 28 Pages: 5094-5115 Published: 2009

Times Cited: 2,653  
(from Web of Science Core Collection)

Usage Count ▾

Times Cited: 2,404  
(from Web of Science Core Collection)

Highly Cited Paper

Usage Count ▾

Times Cited: 2,207  
(from Web of Science Core Collection)

Highly Cited Paper

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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。

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9,027 records. TOPIC: ("carbon-hydrogen activat\*" or "C-H activat\*" or "Carbon hydrogen activat\*" or "carbon-hydrogen function\*")

Rank the records by this field:	Set display options:	Sort by:
<ul style="list-style-type: none"><li>Authors</li><li>Book Series Titles</li><li>Conference Titles</li><li>Countries/Territories</li></ul>	Show the top <input type="text" value="10"/> Results. Minimum record count (threshold): <input type="text" value="2"/>	<input checked="" type="radio"/> Record count <input type="radio"/> Selected field

Analyze

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- 作者
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  - 机构扩展
  - 语种
  - WOS学科类别
  - 编者
  - 丛书名称
  - 研究方向
- ESI高被引及热点论文

# 主要基金资助机构

<input type="checkbox"/> View Records <input checked="" type="checkbox"/> Exclude Records		Field: Funding Agencies	Record Count	% of 9027	Bar Chart
<input type="checkbox"/>	NATIONAL NATURAL SCIENCE FOUNDATION OF CHINA	742	8.220 %		
<input type="checkbox"/>	NSFC	224	2.481 %		
<input type="checkbox"/>	NATIONAL SCIENCE FOUNDATION	181	2.005 %		
<input type="checkbox"/>	EPSRC	145	1.606 %		
<input type="checkbox"/>	NATIONAL BASIC RESEARCH PROGRAM OF CHINA	145	1.606 %		
<input type="checkbox"/>	NSF	139	1.540 %		
<input type="checkbox"/>	DEUTSCHE FORSCHUNGSGEMEINSCHAFT	130	1.440 %		
<input type="checkbox"/>	NATIONAL SCIENCE FOUNDATION OF CHINA	119	1.318 %		
<input type="checkbox"/>	FUNDAMENTAL RESEARCH FUNDS FOR THE CENTRAL UNIVERSITIES	116	1.285 %		
<input type="checkbox"/>	CNRS	105	1.163 %		
<input type="checkbox"/>	FONDS DER CHEMISCHEN INDUSTRIE	97	1.075 %		
<input type="checkbox"/>	CSIR NEW DELHI	92	1.019 %		
<input type="checkbox"/>	CSIR	85	0.942 %		
<input type="checkbox"/>	ALEXANDER VON HUMBOLDT FOUNDATION	81	0.897 %		
<input type="checkbox"/>	NATIONAL BASIC RESEARCH PROGRAM OF CHINA 973 PROGRAM	81	0.897 %		
<input type="checkbox"/>	NIGMS NIH HHS	81	0.897 %		
<input type="checkbox"/>	JSPS	80	0.886 %		
<input type="checkbox"/>	NIH	79	0.875 %		
<input type="checkbox"/>	NSERC	77	0.853 %		
<input type="checkbox"/>	NATURAL SCIENCE FOUNDATION OF CHINA	76	0.842 %		



# 主要出版期刊源

<input type="checkbox"/>	<input type="checkbox"/>	Field: Source Titles	Record Count	% of 9027	Bar Chart
<input type="checkbox"/>	<input type="checkbox"/>	ORGANOMETALLICS	1044	11.565 %	
<input type="checkbox"/>	<input type="checkbox"/>	ANGEWANDTE CHEMIE INTERNATIONAL EDITION	789	8.740 %	
<input type="checkbox"/>	<input type="checkbox"/>	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	717	7.943 %	
<input type="checkbox"/>	<input type="checkbox"/>	CHEMISTRY A EUROPEAN JOURNAL	511	5.661 %	
<input type="checkbox"/>	<input type="checkbox"/>	ORGANIC LETTERS	404	4.475 %	
<input type="checkbox"/>	<input type="checkbox"/>	JOURNAL OF ORGANOMETALLIC CHEMISTRY	334	3.700 %	
<input type="checkbox"/>	<input type="checkbox"/>	CHEMICAL COMMUNICATIONS	316	3.501 %	
<input type="checkbox"/>	<input type="checkbox"/>	ADVANCED SYNTHESIS CATALYSIS	270	2.991 %	
<input type="checkbox"/>	<input type="checkbox"/>	JOURNAL OF ORGANIC CHEMISTRY	258	2.858 %	
<input type="checkbox"/>	<input type="checkbox"/>	EUROPEAN JOURNAL OF ORGANIC CHEMISTRY	242	2.681 %	
<input type="checkbox"/>	<input type="checkbox"/>	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	241	2.670 %	
<input type="checkbox"/>	<input type="checkbox"/>	DALTON TRANSACTIONS	239	2.648 %	
<input type="checkbox"/>	<input type="checkbox"/>	TETRAHEDRON LETTERS	208	2.304 %	
<input type="checkbox"/>	<input type="checkbox"/>	INORGANIC CHEMISTRY	189	2.094 %	
<input type="checkbox"/>	<input type="checkbox"/>	EUROPEAN JOURNAL OF INORGANIC CHEMISTRY	163	1.806 %	
<input type="checkbox"/>	<input type="checkbox"/>	SYNLETT	163	1.806 %	
<input type="checkbox"/>	<input type="checkbox"/>	TETRAHEDRON	157	1.739 %	
<input type="checkbox"/>	<input type="checkbox"/>	ACS CATALYSIS	136	1.507 %	
<input type="checkbox"/>	<input type="checkbox"/>	ORGANIC BIOMOLECULAR CHEMISTRY	133	1.473 %	
<input type="checkbox"/>	<input type="checkbox"/>	SYNTHESIS STUTT GART	98	1.086 %	

**ORGANOMETALLICS**

Impact Factor  
2015 **4.186** 3.892  
5 year

JCR® Category	Rank in Category	Quartile in Category
CHEMISTRY, INORGANIC & NUCLEAR	9 of 46	Q1
CHEMISTRY, ORGANIC	12 of 59	Q1

Data from the 2015 edition of Journal Citation Reports®

Publisher  
AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036  
ISSN: 0276-7333  
Research Domain  
Chemistry

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**ANGEWANDTE CHEMIE-INTERNATIONAL EDITION**

Impact Factor  
2015 **11.709** 12.111  
5 year

JCR® Category	Rank in Category	Quartile in Category
CHEMISTRY, MULTIDISCIPLINARY	11 of 163	Q1

Data from the 2015 edition of Journal Citation Reports®

Publisher  
WILEY-VCH VERLAG GMBH, POSTFACH 101161, 69451 WEINHEIM, GERMANY  
ISSN: 1433-7851  
eISSN: 1521-3773  
Research Domain  
Chemistry

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**JOURNAL OF THE AMERICAN CHEMICAL SOCIETY**

Impact Factor  
2015 **13.038** 12.376  
5 year

JCR® Category	Rank in Category	Quartile in Category
CHEMISTRY, MULTIDISCIPLINARY	10 of 163	Q1

Data from the 2015 edition of Journal Citation Reports®

Publisher  
AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036 USA  
ISSN: 0002-7863  
Research Domain  
Chemistry

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# 碳氢活化研究在顶级期刊的表现

Results: 30

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## Web of Science Categories

MULTIDISCIPLINARY SCIENCES (30)

Refine

## Document Types

- ARTICLE (24)
- REVIEW (3)
- CORRECTION (2)
- EDITORIAL MATERIAL (1)

Sort by: Times Cited -- highest to lowest

Page 1 of 3

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Add to Marked List

- 1. **Catalytic C-H functionalization by metal carbenoid and nitrenoid insertion**

By: Davies, Huw M. L.; Manning, James R.

**NATURE** Volume: 451 Issue: 7177 Pages: 417-424 Published: JAN 24 2008



Full Text from Publisher

View Abstract

- 2. **Organometallic chemistry - C-H activation**

By: Bergman, Robert G.

**NATURE** Volume: 446 Issue: 7134 Pages: 391-393 Published: MAR 22 2007



Full Text from Publisher

- 3. **Remarkably selective iridium catalysts for the elaboration of aromatic C-H bonds**

By: Cho, JY; Tse, MK; Holmes, D; et al.

**SCIENCE** Volume: 295 Issue: 5553 Pages: 305-308 Published: JAN 11 2002



Full Text from Publisher

View Abstract

- 4. **Thermal, catalytic, regiospecific functionalization of alkanes**

By: Chen, HY; Schlecht, S; Semple, TC; et al.

**SCIENCE** Volume: 287 Issue: 5460 Pages: 1995-1997 Published: MAR 17 2000



Full Text from Publisher

View Abstract



Times Cited: 981  
from Web of Science Core Collection)

Highly Cited Paper

Usage Count

Times Cited: 620  
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Times Cited: 593  
from Web of Science Core Collection)

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# 碳氢活化领域主要研究机构

<input type="button" value="→ View Records"/> <input type="button" value="× Exclude Records"/>		Field: Organizations-Enhanced	Record Count	% of 9027	Bar Chart	<input type="button" value="Save Analysis Data to File"/>
<input type="checkbox"/>		CHINESE ACADEMY OF SCIENCES	584	6.469 %	■	<input checked="" type="radio"/> Data rows displayed in table <input type="radio"/> All data rows (up to 200,000)
<input type="checkbox"/>		CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	371	4.110 %	■	
<input type="checkbox"/>		UNIVERSITY OF CALIFORNIA SYSTEM	347	3.844 %	■	
<input type="checkbox"/>		CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS CSIC	214	2.371 %	■	
<input type="checkbox"/>		UNIVERSITY OF CALIFORNIA BERKELEY	188	2.083 %	■	
<input type="checkbox"/>		UNITED STATES DEPARTMENT OF ENERGY DOE	148	1.640 %	■	
<input type="checkbox"/>		CALIFORNIA INSTITUTE OF TECHNOLOGY	139	1.540 %	■	
<input type="checkbox"/>		COUNCIL OF SCIENTIFIC INDUSTRIAL RESEARCH CSIR INDIA	131	1.451 %	■	
<input type="checkbox"/>		PEKING UNIVERSITY	127	1.407 %	■	
<input type="checkbox"/>		INDIAN INSTITUTE OF TECHNOLOGY IIT	118	1.307 %	■	
<input type="checkbox"/>		SCRIPPS RESEARCH INSTITUTE	111	1.230 %	■	
<input type="checkbox"/>		UNIVERSITY OF ZARAGOZA	98	1.086 %	■	
<input type="checkbox"/>		KYOTO UNIVERSITY	96	1.063 %	■	
<input type="checkbox"/>		UNIVERSITY OF MUNSTER	94	1.041 %	■	
<input type="checkbox"/>		ZHEJIANG UNIVERSITY	94	1.041 %	■	
<input type="checkbox"/>		UNIVERSITY OF GOTTINGEN	93	1.030 %	■	
<input type="checkbox"/>		OSAKA UNIVERSITY	83	0.919 %	■	
<input type="checkbox"/>		UNIVERSITY OF WURZBURG	78	0.864 %	■	
<input type="checkbox"/>		NANJING UNIVERSITY	77	0.853 %	■	
<input type="checkbox"/>		UNIVERSITY OF OXFORD	76	0.842 %	■	

# 碳氢活化领域领军人物

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Save Analysis Data to File

● Data rows displayed in table  
 ○ All data rows (up to 200,000)

	Field: Authors	Record Count	% of 9027	Bar Chart
<input type="checkbox"/>	BERGMAN RG	101	1.119 %	
<input type="checkbox"/>	YU JQ	84	0.931 %	
<input type="checkbox"/>	LI XW	76	0.842 %	
<input type="checkbox"/>	DAVIES HML	74	0.821 %	
<input type="checkbox"/>	CUNDARI TR	70	0.775 %	
<input type="checkbox"/>	ACKERMANN L	65	0.720 %	
<input type="checkbox"/>	LI CJ	64	0.708 %	
<input type="checkbox"/>	MILSTEIN D	59	0.653 %	
<input type="checkbox"/>	GUNNOE TB	56	0.620 %	
<input type="checkbox"/>	DOUCET H	55	0.609 %	
<input type="checkbox"/>	BERCAW JE	52	0.576 %	
<input type="checkbox"/>	GLORIUS F	52	0.576 %	
<input type="checkbox"/>	JONES WD	52	0.576 %	
<input type="checkbox"/>	WANG L	52	0.576 %	
<input type="checkbox"/>	WERNER H	52	0.576 %	
<input type="checkbox"/>	LABINGER JA	49	0.543 %	
<input type="checkbox"/>	ZHANG Y	45	0.499 %	
<input type="checkbox"/>	PERIANA RA	40	0.443 %	
<input type="checkbox"/>	CARMONA E	39	0.432 %	
<input type="checkbox"/>	CHENG CH	39	0.432 %	



**Professor Jinquan Yu**  
 Scripps Research Institute



**Professor Robert G. Bergman**  
 UC Berkeley

# 各国研究状况

<input type="checkbox"/> View Records	Field: Countries/Territories	Record Count	% of 9027	Bar Chart	Save Analysis Data to File
<input type="checkbox"/>	USA	2265	25.091 %		<input checked="" type="radio"/> Data rows displayed in table
<input checked="" type="checkbox"/>	PEOPLES R CHINA	1817	20.129 %		<input type="radio"/> All data rows (up to 200,000)
<input type="checkbox"/>	GERMANY	1006	11.144 %		
<input type="checkbox"/>	JAPAN	628	6.957 %		
<input type="checkbox"/>	ENGLAND	529	5.860 %		
<input type="checkbox"/>	INDIA	528	5.849 %		
<input type="checkbox"/>	SPAIN	507	5.616 %		
<input type="checkbox"/>	FRANCE	481	5.328 %		
<input type="checkbox"/>	CANADA	436	4.830 %		
<input type="checkbox"/>	ITALY	251	2.781 %		
<input type="checkbox"/>	SOUTH KOREA	190	2.105 %		
<input type="checkbox"/>	SWITZERLAND	161	1.784 %		
<input type="checkbox"/>	NETHERLANDS	148	1.640 %		
<input type="checkbox"/>	TAIWAN	148	1.640 %		
<input type="checkbox"/>	SINGAPORE	113	1.252 %		
<input type="checkbox"/>	SCOTLAND	107	1.185 %		
<input type="checkbox"/>	ISRAEL	105	1.163 %		
<input type="checkbox"/>	RUSSIA	85	0.942 %		
<input type="checkbox"/>	AUSTRALIA	74	0.820 %		
<input type="checkbox"/>	SWEDEN	67	0.742 %		

# 主要学术会议

<input type="checkbox"/> View Records <input checked="" type="checkbox"/> Exclude Records		Field: Conference Titles	Record Count	% of 9027	Bar Chart
<input type="checkbox"/>		245TH NATIONAL SPRING MEETING OF THE AMERICAN CHEMICAL SOCIETY ACS	17	0.188 %	
<input type="checkbox"/>		248TH NATIONAL MEETING OF THE AMERICAN CHEMICAL SOCIETY ACS	14	0.155 %	
<input type="checkbox"/>		244TH NATIONAL FALL MEETING OF THE AMERICAN CHEMICAL SOCIETY ACS	12	0.133 %	
<input type="checkbox"/>		247TH NATIONAL SPRING MEETING OF THE AMERICAN CHEMICAL SOCIETY ACS	12	0.133 %	
<input type="checkbox"/>		226TH NATIONAL MEETING OF THE AMERICAN CHEMICAL SOCIETY	8	0.089 %	
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<input type="checkbox"/> Exclude Records					<input checked="" type="radio"/> Data rows displayed in table <input type="radio"/> All data rows (up to 200,000)
<input type="checkbox"/>	CHEMISTRY	8826	97.773 %		
<input type="checkbox"/>	SCIENCE TECHNOLOGY OTHER TOPICS	162	1.795 %		
<input type="checkbox"/>	PHYSICS	145	1.606 %		
<input type="checkbox"/>	ENGINEERING	84	0.931 %		
<input type="checkbox"/>	BIOCHEMISTRY MOLECULAR BIOLOGY	71	0.787 %		
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<input type="checkbox"/>	MATERIALS SCIENCE	60	0.665 %		
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<input type="checkbox"/>	SPECTROSCOPY	31	0.343 %		
<input type="checkbox"/>	POLYMER SCIENCE	21	0.233 %		
<input type="checkbox"/>	ENVIRONMENTAL SCIENCES ECOLOGY	18	0.199 %		
<input type="checkbox"/>	BIOPHYSICS	13	0.144 %		
<input type="checkbox"/>	ENERGY FUELS	13	0.144 %		
<input type="checkbox"/>	MATHEMATICS	11	0.122 %		
<input type="checkbox"/>	ELECTROCHEMISTRY	10	0.111 %		
<input type="checkbox"/>	COMPUTER SCIENCE	8	0.089 %		
<input type="checkbox"/>	BIOTECHNOLOGY APPLIED MICROBIOLOGY	5	0.055 %		
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生物化学、分子生物学领域的延伸

能源、燃料领域的延伸

<input type="checkbox"/> View Records	Field: Research Areas	Record Count	% of 9027	Bar Chart	Save Analysis Data to File
<input type="checkbox"/> Exclude Records					<input type="radio"/> Data rows displayed in table <input type="radio"/> All data rows (up to 200,000)

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## “定题跟踪”：可实时跟踪某课题、某作者、某机构等的最新研究进展

作者: Lander, ES; Int Human Genome Sequencing Consortium; Linton, LM; 等.  
团体作者: Int Human Genome Sequencing Conso

NATURE 卷: 409 期: 6822 页: 860-921 出版年: FEB 15 2001



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2. MEGA3: Integrated software for molecular evolutionary genetics analysis and sequence alignment

作者: Kumar, S; Tamura, K; Nei, M

BRIEFINGS IN BIOINFORMATICS 卷: 5 期: 2 页: 150-163 出版年: JUN 2004



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3. The sequence of the human genome

作者: Venter, JC; Adams, MD; Myers, EW; 等.

SCIENCE 卷: 291 期: 5507 页: 1304-+ 出版年: FEB 16 2001



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(Biren, B); Nu  
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卷: 409 期:  
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出版年: FEB  
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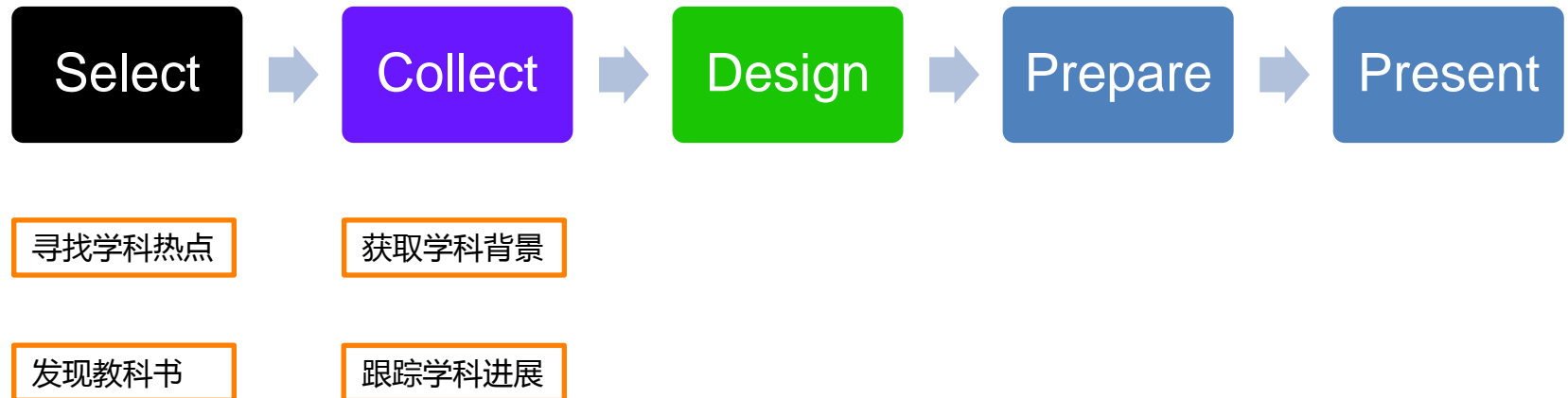


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1. **SigB-dependent general stress response in *Bacillus subtilis* and related gram-positive bacteria**  
 By: Hecker, Michael; Pane-Farre, Jan; Voelker, Uwe  
 ANNUAL REVIEW OF MICROBIOLOGY Book Series: Annual Review of Microbiology Volume: 61 Pages: 215-236  
 Published: 2007

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2. **Role of stomata in plant innate immunity and foliar bacterial diseases**  
 By: Melotto, Maeli; Underwood, William; He, Sheng Yang  
 ANNUAL REVIEW OF PHYTOPATHOLOGY Book Series: Annual Review of Phytopathology Volume: 46 Pages: 101-122  
 Published: 2008

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**Times Cited: 184**  
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3. **Prochlorococcus: Advantages and Limits of Minimalism**  
 By: Partensky, Frederic; Garczarek, Laurence  
 ANNUAL REVIEW OF MARINE SCIENCE Book Series: Annual Review of Marine Science Volume: 2 Pages: 305-331  
 Published: 2010

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**Times Cited: 83**  
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4. **Interspecies Chemical Communication in Bacterial Development**  
 By: Straight, Paul D.; Kolter, Roberto  
 ANNUAL REVIEW OF MICROBIOLOGY Book Series: Annual Review of Microbiology Volume: 63 Pages: 99-118  
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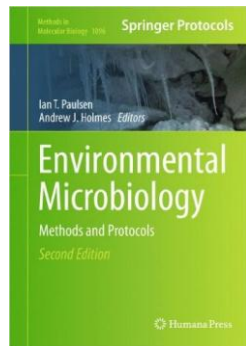
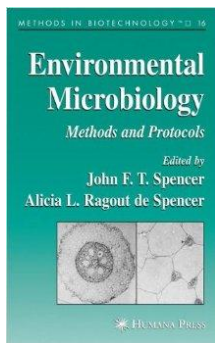
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1.

**ENVIRONMENTAL MICROBIOLOGY AND ENVIRONMENTAL HEALTH**

By: GREENE, VW  
JOURNAL OF MILK AND FOOD TECHNOLOGY Volume: 29 Issue: 2 Pages: 35-8 Published: 1966

Times Cited: 1  
*(from Web of Science Core Collection)*

Usage Count ▾
2.

**RESEARCH AND DEVELOPMENT IN ENVIRONMENTAL MICROBIOLOGY**

By: WALKER, B  
ARCHIVES OF ENVIRONMENTAL HEALTH Volume: 17 Issue: 6 Pages: 979-& Published: 1968

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Times Cited: 0  
*(from Web of Science Core Collection)*

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3.

**ENVIRONMENTAL MICROBIOLOGY AND INFECTION CONTROL PROGRAMS IN HEALTH-CARE FACILITIES - INTRODUCTORY-REMARKS**

By: HERMAN, LG  
HEALTH LABORATORY SCIENCE Volume: 11 Issue: 2 Pages: 69-70 Published: 1974

Times Cited: 0  
*(from Web of Science Core Collection)*

Usage Count ▾
4.

**ENVIRONMENTAL MICROBIOLOGY - BIODEGRADATION**

By: SLATER, JH; BULL, AT  
PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES Volume: 297 Issue: 1088 Pages: 575-597 Published: 1982

Full Text from Publisher

Times Cited: 30  
*(from Web of Science Core Collection)*

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5.

**ENVIRONMENTAL MICROBIOLOGY AND BIOCHEMISTRY**

By: GLAZE, WH  
ENVIRONMENTAL SCIENCE & TECHNOLOGY Volume: 23 Issue: 2 Pages: 131-131 Published: FEB 1989

Times Cited: 0  
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1. **NOSOCOMIAL ASPERGILLOSIS - ENVIRONMENTAL MICROBIOLOGY, HOSPITAL EPIDEMIOLOGY, DIAGNOSIS AND TREATMENT**  
 By: WALSH, TJ; DIXON, DM  
 EUROPEAN JOURNAL OF EPIDEMIOLOGY Volume: 5 Issue: 2 Pages: 131-142 Published: JUN 1989  
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2. **THE ENVIRONMENTAL MICROBIOLOGY OF CHLORINATED AROMATIC DECOMPOSITION**  
 By: BOYLE, M  
 JOURNAL OF ENVIRONMENTAL QUALITY Volume: 18 Issue: 4 Pages: 395-402 Published: OCT-DEC 1989  
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3. **POLYMERASE CHAIN-REACTION - APPLICATIONS IN ENVIRONMENTAL MICROBIOLOGY**  
 By: STEFFAN, RJ; ATLAS, RM  
 ANNUAL REVIEW OF MICROBIOLOGY Volume: 45 Pages: 137-161 Published: 1991  
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4. **MICROBIAL ENERGETICS APPLIED TO WASTE REPOSITORIES**  
 By: HANSELMANN, KW  
 EXPERIENTIA Volume: 47 Issue: 7 Pages: 645-687 Published: JUL 15 1991  
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1. **The impact of microbial symbionts on host plant utilization by herbivorous insects**

By: Hansen, Allison K.; Moran, Nancy A.  
MOLECULAR ECOLOGY Volume: 23 Issue: 6 Special Issue: SI Pages: 1473-1496 Published: MAR 2014

Full Text from Publisher
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2. **Ribosomal Database Project: data and tools for high throughput rRNA analysis**

By: Cole, James R.; Wang, Qiong; Fish, Jordan A.; et al.  
NUCLEIC ACIDS RESEARCH Volume: 42 Issue: D1 Pages: D633-D642 Published: JAN 2014

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3. **Microbial source tracking markers for detection of fecal contamination in environmental waters: relationships between pathogens and human health outcomes**

By: Harwood, Valerie J.; Staley, Christopher; Badgley, Brian D.; et al.  
FEMS MICROBIOLOGY REVIEWS Volume: 38 Issue: 1 Pages: 1-40 Published: JAN 2014

Full Text from Publisher
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4. **Prevalent genome streamlining and latitudinal divergence of planktonic bacteria in the surface ocean**

By: Swan, Brandon K.; Tupper, Ben; Sczyrba, Alexander; et al.  
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 110 Issue: 28 Pages: 11463-11468 Published: JUL 9 2013

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# 利用Web of Science服务科研

# RESEARCH FUNDING





# 使用ESI及WOS分析研究前沿，帮助基金选题

- 1. 获取研究前沿的方法**
- 2. 明确研究方向的学者**
- 3. 首次申请基金的青年学者**
- 4. 利用研究前沿预判基金资助方向**

# 1、获取研究前沿的方法



# Essential Science Indicators

## 定量分析研究绩效的工具

- 来自于 Web of Science 的10年滚动数据，每一种期刊都被按照22个学科进行了分类标引；
- 基于科学家、研究机构（或大学）、国家（或地区）及学术期刊的研究成果数量和影响力指标，以及在全球各研究领域中的排名
- 全球各学科领域的论文被引频次基准值
- 高被引论文、热点论文和研究前沿

分析学科热点及前沿

Report View by Selection

Total: 5186	Institutions	Web of Science Documents			
1	UNIV CALIF SYSTEM	354,087	8,441,711	23.84	11,606
2	HARVARD UNIV	184,707	5,569,706	30.15	8,394
3	CNRS	289,453	4,599,426	15.89	4,501

ESI已成为教育部学位评估中心及2011计划（高校协同创新平台计划）重要评估指标之一

ESI高被引论文 (Highly Cited Paper)、  
热点论文 (Hot Paper)、  
前沿研究 (Research Fronts)  
定义及价值


## ESI高被引论文及热点论文定义

过去**10年**中所发表的，在统计时间点，**被引次数**在**同年同学科**中达到该学科的**前1%**-  
-高被引论文Highly Cited Paper

近**两年内发表**，在统计时间点，**近两个月**的**被引次数**达到该学科的**前0.1%**--热点论文HOT Paper

统计高被引论文之间的**引证关系**，采用**共聚类分析**得出关键词—研究前沿Research Fronts

## 2、明确研究方向的学者发现自己领域的研究前沿



## Results List

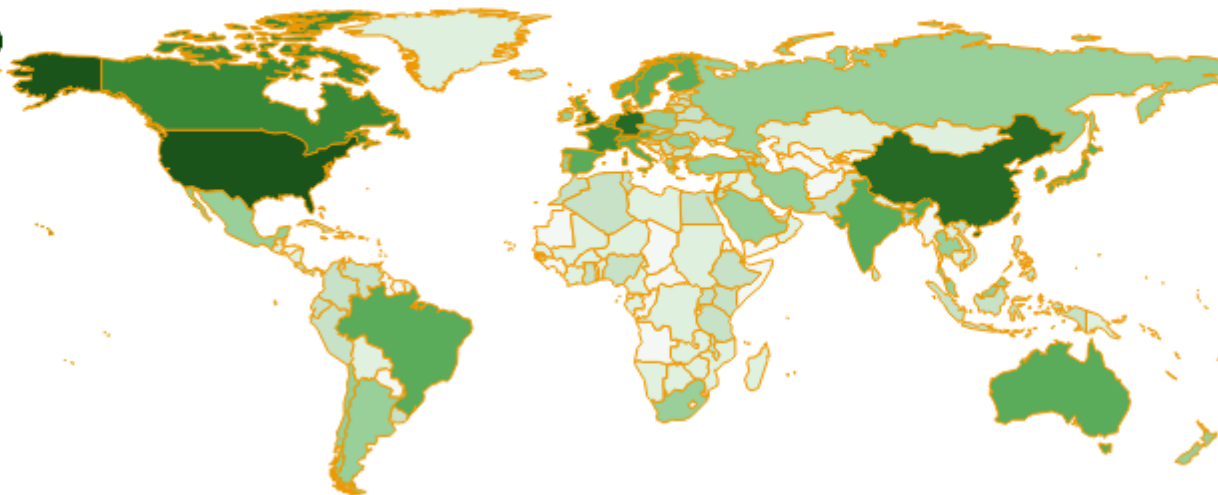
Research Fields



## Map View by Top / Hot / Highly Cited Papers

Hide Visualization —

选择研究领域



0 67,735

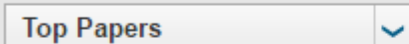
## Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

## Include Results For

Top Papers



Clear

Save Criteria

## Report View by Selection

Customize

Total: 22	Research Fields	Web of Science Documents	Cites	Cites/Paper	Top Papers
1	CLINICAL MEDICINE	2,475,019	30,725,900	12.41	24,46
2	CHEMISTRY	1,544,366	20,295,392	13.14	15,36
3	PHYSICS	1,104,434	11,899,217	10.77	11,12
4	BIOLOGY & BIOCHEMISTRY	678,952	10,972,022	16.16	6,60
5	MOLECULAR BIOLOGY & GENETICS	418,962	10,135,315	24.19	4,19

选择化学

## Citation Trends

## Documents

### Filter Results By ?

Add Filter »

输入研究方向

### Include Results For

Top Papers

Clear

Save Criteria

Sort By Citations

Customize Documents

1 - 10 of 15,361

#### 1 A SHORT HISTORY OF SHELX

Times Cited: 48,054

By: SHELDRIK, GM;  
Source: ACTA CRYSTALLOGR A 64: 112-122 PART 1 JAN 2008  
Research Fields: CHEMISTRY

#### 2 THE M06 SUITE OF DENSITY FUNCTIONALS FOR MAIN GROUP THERMOCHEMISTRY, THERMOCHEMICAL KINETICS, NONCOVALENT INTERACTIONS, EXCITED STATES, AND TRANSITION ELEMENTS: TWO NEW FUNCTIONALS AND SYSTEMATIC TESTING OF FOUR M06-CLASS FUNCTIONALS AND 12 OTHER FUNCTIONALS

Times Cited: 6,654

By: ZHAO, Y; TRUHLAR, DG;  
Source: THEOR CHEM ACC 120 (1-3): 215-241 MAY 2008  
Research Fields: CHEMISTRY

#### 3 SEMIEMPIRICAL GGA-TYPE DENSITY FUNCTIONAL CONSTRUCTED WITH A LONG-RANGE DISPERSION CORRECTION

Times Cited: 6,384

By: GRIMME, S;  
Source: J COMPUT CHEM 27 (15): 1787-1799 NOV 30 2006  
Research Fields: CHEMISTRY

#### 4 PHASER CRYSTALLOGRAPHIC SOFTWARE

Times Cited: 6,076

By: MCCOY, AJ; GROSSE-KUNSTLEVE, RW; ADAMS, PD; et.al  
Source: J APPL CRYST 40: 658-674 PART 4 AUG 2007  
Research Fields: CHEMISTRY

#### 5 GRAPHENE-BASED COMPOSITE MATERIALS

Times Cited: 5,660

By: STANKOVICH, S; DIKIN, DA; DOMMETT, GHB; et.al  
Source: NATURE 442 (7100): 282-286 JUL 20 2006  
Research Fields: CHEMISTRY



## Documents

## Filter Results By ?

## Add Filter »

carbon-carbon

**C-C SINGLE BONDS;METAL-CATAL**

CARBON-CARBON CROSS COUPL

COPPER(I)-CATALYZED ALKYNE-A

COPPER-CATALYZED AEROBIC OX

PHOTOSENSITIZER-FREE VISIBLE

UNACTIVATED TERTIARY ALKYL H

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Source: NATURE 442 (7100): 282-286 JUL 20 2006  
Research Fields: CHEMISTRY



## Citation Trends


## Documents

### Filter Results By

#### Add Filter »


× CARBON-CARBON CROSS COUPLING REACTIONS; CARBON-CARBON CROSS-COUPLING REACTIONS; PD-PARTIALLY REDUCED GRAPHENE OXIDE CATALYSTS (PD/PRGO); LASER SYNTHESIS; MICROWAVE-ASSISTED SYNTHESIS

### Include Results For



Top Papers 

Clear

Save Criteria

Sort By Citations 

Customize Documents

1 - 2 of 2  

1 **MICROWAVE-ASSISTED SYNTHESIS OF PALLADIUM NANOPARTICLES SUPPORTED ON GRAPHENE: A HIGHLY ACTIVE AND RECYCLABLE CATALYST FOR CARBON-CARBON CROSS-COUPLING REACTIONS**

By: SIAMAKI, AR; KHDER, AES; ABDELSAYED, V; et.al  
Source: J CATAL 279 (1): 1-11 APR 1 2011  
Research Fields: CHEMISTRY

Times Cited: 165

 Research Front

2 **PD-PARTIALLY REDUCED GRAPHENE OXIDE CATALYSTS (PD/PRGO): LASER SYNTHESIS OF PD NANOPARTICLES SUPPORTED ON PRGO NANOSHEETS FOR CARBON-CARBON CROSS COUPLING REACTIONS**

By: MOUSSA, S; SIAMAKI, AR; GUPTON, BF; et.al  
Source: ACS CATAL 2 (1): 145-154 JAN 2012  
Research Fields: CHEMISTRY

Times Cited: 105

 Research Front

# 3、首次申请基金的青年学者 发现所在学科的研究前沿

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## Include Results For

Highly Cited Papers



Clear

Save Criteria



该研究前沿相关  
的高被引文章数

论文出版的  
平均年份

## Report View by Selection

	Research Fronts	Highly Cited Papers	Mean Year
1	FEW-LAYER BLACK PHOSPHORUS FIELD-EFFECT TRANSISTORS; FLEXIBLE BLACK PHOSPHORUS AMBIPOLAR TRANSISTORS; BLACK PHOSPHORUS FIELD-EFFECT TRANSISTORS; PRISTINE FEW-LAYER BLACK PHOSPHORUS; FEW-LAYER BLACK PHOSPHORUS	46	2014.3
2	CU-WATER NANOFLUID HEAT TRANSFER; MHD NATURAL CONVECTION HEAT TRANSFER; MAGNETOHYDRODYNAMIC NATURAL CONVECTION HEAT TRANSFER; NATURAL CONVECTION HEAT TRANSFER; FORCED CONVECTION HEAT TRANSFER	45	2013.9
2	HIGHLY SELECTIVE LUMINESCENT SENSING; INFRARED LUMINESCENT YTTERBIUM METAL-ORGANIC FRAMEWORK; LUMINESCENT NANOSCALE METAL-ORGANIC FRAMEWORK; LUMINESCENT CADMIUM METAL-ORGANIC FRAMEWORK; LUMINESCENT METAL-ORGANIC FRAMEWORK FILMS	45	2013.7
2	COMPETITIVE ULTRASONIC ASSISTED REMOVAL; ULTRASONIC ASSISTED REMOVAL; BASED RESPONSE SURFACE METHODOLOGY OPTIMIZATION; ACID BLUE 129 REMOVAL; MULTI-WALLED CARBON NANOTUBES	45	2013.5
5	CU <sub>2</sub> ZNSNS <sub>4</sub> THIN FILM SOLAR CELL EFFICIENCY; HIGH EFFICIENCY ELECTRODEPOSITED CU <sub>2</sub> ZNSNS <sub>4</sub> SOLAR CELL; CU <sub>2</sub> ZNSNS <sub>4</sub> SOLAR CELLS; CU <sub>2</sub> ZNSNSE <sub>4</sub> THIN FILM	43	2012.6

# 对研究前沿关键词进行分析

HIGHLY SELECTIVE LUMINESCENT SENSING;INFRARED LUMINESCENT YTTERBIUM METAL-ORGANIC FRAMEWORK;LUMINESCENT NANOSCALE METAL-ORGANIC FRAMEWORK;LUMINESCENT CADMIUM METAL-ORGANIC FRAMEWORK;LUMINESCENT METAL-ORGANIC FRAMEWORK FILMS

45

2013.7

有机金属配合物发光材料

TETRAPHENYLETHYLENE CORE-BASED 3D STRUCTURE SMALL MOLECULAR ACCEPTOR ENABLING EFFICIENT NON-FULLERENE ORGANIC SOLAR CELLS;HIGHLY EFFICIENT SOLUTION-PROCESSED NON-FULLERENE ORGANIC SOLAR CELLS;HIGH-PERFORMANCE NON-FULLERENE BASED ORGANIC SOLAR CELLS;EFFICIENT ORGANIC BULK HETEROJUNCTION SOLAR CELLS;EFFICIENT NON-FULLERENE POLYMER SOLAR CELLS ENABLED

39

2014.3

非富勒烯型聚合物太阳能电池

LUMINESCENT LANTHANIDE METAL-ORGANIC FRAMEWORKS;LUMINESCENT MULTIFUNCTIONAL LANTHANIDES-BASED METAL-ORGANIC FRAMEWORKS;LUMINESCENT FUNCTIONAL METAL-ORGANIC FRAMEWORKS;FERROELECTRIC METAL-ORGANIC FRAMEWORKS;MICROPOROUS METAL-ORGANIC FRAMEWORKS

37

2012.3

发光镧系金属-有机骨架材料

ASYMMETRIC N-HETEROCYCLIC CARBENE (NHC) CATALYZED ACYL ANION REACTIONS;N-HETEROCYCLIC CARBENE CATALYZED DOMINO REACTIONS;N-HETEROCYCLIC CARBENE CATALYZED ACTIVATION;N-HETEROCYCLIC CARBENE (NHC) CATALYSIS;ACYL ANION FREE N-HETEROCYCLIC CARBENE ORGANOCATALYSIS

34

2013.3

N-杂环卡宾(NHC)催化

ENANTIOSELECTIVE ELECTROPHILIC TRIFLUOROMETHYLTHIOLATION;LEWIS ACID-CATALYZED ELECTROPHILIC TRIFLUOROMETHYLTHIOLATION;SILVER-MEDIATED OXIDATIVE ALIPHATIC C-H TRIFLUOROMETHYLTHIOLATION;DIRECT CATALYTIC TRIFLUOROMETHYLTHIOLATION;COPPER-CATALYZED OXIDATIVE TRIFLUOROMETHYLTHIOLATION

30

2013.6

C-H键的三氟甲基化

COBALT(III)-CATALYZED DIRECTED C-H ALLYLATION;COBALT(III)-CATALYZED DIRECTED C-H COUPLING;COBALT(III)-CATALYZED C-H BOND AMIDATION;COBALT(III)-CATALYZED C-H AMIDATION;COBALT(III)-CATALYZED C2-SELECTIVE C-H ALKYNYLATION

29

2014.8

C-H键的烯丙基化、酰胺化、炔基化

ORGANOMETALLIC SANDWICH LANTHANIDE SINGLE-ION MAGNET;LANTHANIDE ORGANOMETALLIC SINGLE-ION MAGNETS;LANTHANIDE SINGLE-MOLECULE MAGNETS;ASYMMETRIC DY-2 SINGLE-MOLECULE MAGNET;SINGLE-MOLECULE MAGNET BEHAVIOR

28

2012.3

镧系金属元素的单粒子磁体

EFFICIENT BLUE ORGANIC LIGHT-EMITTING DIODES EMPLOYING THERMALLY DELAYED FLUORESCENT ORGANIC LIGHT-EMITTING DIODES;HIGHLY EFFICIENT ORGANIC LIGHT-EMITTING DIODES;ORGANIC LIGHT-EMITTING DIODES EMPLOYING EFFICIENT REVERSE INTERSYSTEM CROSSING;HIGHLY EFFICIENT ORGANIC LIGHT-EMITTING DIODE BASED

28

2013.5

有机发光二极管

HIGH PERFORMANCE ORGANIC SOLAR CELLS;ALL-SOLUTION-PROCESSED BILAYER ORGANIC SOLAR CELLS;HIGH-EFFICIENCY ORGANIC SOLAR CELLS;POLYMER/FULLERENE BULK HETEROJUNCTION SOLAR CELLS;POLYMER-FULLERENE BULK HETEROJUNCTION SOLAR CELLS

25

2012.4

高效有机太阳能电池

# 4、利用研究前沿预判基金资助方向

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# 2012年国家自然科学基金委有机化学面上项目指南

- 有机化学是研究有机物质的来源与组成、合成与表征、结构与性质、反应与转化，以及功能与作用机理的科学，是创造新物质的重要学科之一。有机化学的新理论、新反应、新方法不仅推动了化学学科的发展，同时也促进了该学科与生命、材料、能源、信息、农业和环境等相关领域在更大程度上的交叉和渗透，进一步拓展了有机化学的研究领域，创造了新的学科生长点。当今有机化学研究的特点是：有机化学的分子设计与制备、分子识别与组装等概念正在影响着多个学科的发展；**选择性反应尤其是催化不对称反应，已成为有机化学研究的热点**；绿色化学作为有机化学研究中具有战略意义的前沿，正在为合理利用资源、解决环境污染和可持续发展等发挥重要的作用；有机化学与生命科学的交叉为研究和认识生命体系中的复杂现象及过程提供了新的方法和手段；有机化学与材料科学的交叉促进了新型有机功能物质的发现、制备和应用；新技术的发现与应用推动着有机化学的发展。
- 通过国家自然科学基金多年的持续资助，我国有机化学的基础研究在金属有机化学、物理有机化学、生物有机化学、天然有机化学和不对称合成等研究领域都取得了重要进展。今后，有机化学除了继续支持金属有机化学、不对称合成等优势学科外，将进一步加强下列几方面的基础研究：①物理有机和有机分析领域，重视发展新理论、新方法和新思路，关注人口与健康、农业、能源、环境和新材料等交叉领域的研究；②天然有机化学领域，加强新结构、新功能天然产物的发现，鼓励开展我国自己发现的、具有独特结构和重要生理活性天然产物的合成，同时鼓励发展新的合成方法；加强基于天然产物等活性小分子的化学生物学研究；③医药和农药创制领域，鼓励开展基于分子靶标的药物设计、新先导化合物和新靶标的发现以及结构与活性关系研究；④有机功能材料领域，加强分子设计、高效合成、组装与本征物理化学性质方面的研究；⑤超分子化学领域，注重分子识别、自组装方法及组装体的功能研究；⑥鼓励开展高效、高选择性的新型催化剂和试剂的研究及其应用，推动绿色化学与可持续化学的发展。



# 2016年国家自然科学基金委有机化学面上项目指南

- 有机化学是研究有机物质的来源与组成、合成与表征、结构与性质、反应与转化，以及功能与作用机理的科学，是创造新物质的重要学科之一。从纵向的角度看，有机化学研究不断深化学科内涵，向宏观拓展、微观深入，力争全时空揭示分子结构-性质关系、化学键形成和断裂以及分子间相互作用的规律，寻求物质转化的最优条件，逐步实现创造和应用有机物质的精准化。从横向的角度看，有机化学积极拓展与其他学科的交叉融合，催生学科增长点，推动能源、健康、环境等领域重大科学问题的解决，促进国家经济和社会的发展。当前有机化学研究的主要特点是：对有机物质结构、转化和相互作用规律的认识不断系统和深入，从而推动新反应、新试剂的发现；**有机化学反应与合成更加注重选择性精准控制和原子/步骤经济性；惰性化学键与小分子的活化与转化、廉价金属催化、绿色合成、生物质转化等成为应对可持续发展需求的前沿领域**；新结构/新活性分子与生物兼容性反应为解决分子层次的生命科学问题提供关键的物质和方法支持；创造全新功能材料分子和智能组装体系从源头上推动了材料科学的创新。
- 近年来，我国有机化学的基础研究无论在规模上还是在深度上都有了长足的进步，有机合成等领域已在国际上占有一席之地，形成了一些有特色的体系。但从近年来基金申请情况来看，我国的有机化学发展也存在如下突出问题：原创性和系统性仍不足、某些领域研究同质化明显、开辟和引领新领域和新方向的能力较弱、各分支学科发展不均衡及以论文为导向的急功近利倾向严重等。有机化学学科将继续支持各分支学科的发展，鼓励科学问题导向的原创性和系统性研究，强调研究思想、研究方向、研究内容以及评价方式的多元化，关注以物质转化为核心的有机合成基础研究原创性突破及对产业应用的源头贡献，进一步加强本学科与物理、材料科学和生命科学等领域的交叉。

# 2012 - 2016年国家自然科学基金委有机化学面上项目指南研究前沿领域的变化

## 惰性化学键活化（碳氢活化）

### 有机化学领域的ESI研究前沿

20	ASYMMETRIC N-HETEROCYCLIC CARBENE (NHC) CATALYZED ACYL ANION REACTIONS; N-HETEROCYCLIC CARBENE CATALYZED DOMINO REACTIONS; N-HETEROCYCLIC CARBENE CATALYZED ACTIVATION; N-HETEROCYCLIC CARBENE (NHC) CATALYSIS; ACYL ANION FREE N-HETEROCYCLIC CARBENE ORGANOCATALYSIS	34	2013.3
26	ENANTIOSELECTIVE ELECTROPHILIC TRIFLUOROMETHYLTHIOLATION; LEWIS ACID-CATALYZED ELECTROPHILIC TRIFLUOROMETHYLTHIOLATION; SILVER-MEDIATED OXIDATIVE ALIPHATIC C-H TRIFLUOROMETHYLTHIOLATION; DIRECT CATALYTIC TRIFLUOROMETHYLTHIOLATION; COPPER-CATALYZED OXIDATIVE TRIFLUOROMETHYLTHIOLATION	30	2013.6
32	COBALT(III)-CATALYZED DIRECTED C-H ALLYLATION; COBALT(III)-CATALYZED DIRECTED C-H COUPLING; COBALT(III)-CATALYZED C-H BOND AMIDATION; COBALT(III)-CATALYZED C-H AMIDATION; COBALT(III)-CATALYZED C2-SELECTIVE C-H ALKYLATION	29	2014.8

N-杂环卡宾(NHC)催化

C-H键的三氟甲基化

C-H键的烯丙基化、酰胺化、炔基化

## 利用ESI研究前沿对基金资助领域进行预判

# Outline

- 01 科学信息在科研过程中的作用
- 02 Web of Science™及引文索引简介
- 03 如何利用Web of Science™核心合集为科研服务
- 04 学术出版

# Whitesides' Group: Writing a Paper\*\*

By *George M. Whitesides\**

## 1. What is a Scientific Paper?

A paper is an organized description of hypotheses, data and conclusions, intended to instruct the reader. Papers are a central part of research. If your research does not generate papers, it might just as well not have been done. “Interesting and unpublished” is equivalent to “non-existent”.

Realize that your objective in research is to formulate and test hypotheses, to draw conclusions from these tests, and to teach these conclusions to others. Your objective is not to “collect data”.

A paper is not just an archival device for storing a completed research program; it is also a structure for *planning* your research in progress. If you clearly understand the purpose and form of a paper, it can be immensely useful to you in *organizing* and conducting your research. A good outline for the paper is also a good plan for the research program. You should write and rewrite these plans/outlines throughout the course of the research. At the beginning, you will have mostly plan; at the end, mostly outline. The continuous effort to understand, analyze, summarize, and reformulate hypotheses on paper will be immensely more efficient for you than a process

do *not* agree on the outline, any text is useless. Much of the *time* in writing a paper goes into the text; most of the *thought* goes into the organization of the data and into the analysis. It can be relatively efficient in time to go through several (even many) cycles of an outline before beginning to write text; writing many versions of the full text of a paper is slow.

All writing that I do—papers, reports, proposals (and, of course, slides for seminars)—I do from outlines. I urge you to learn how to use them as well.

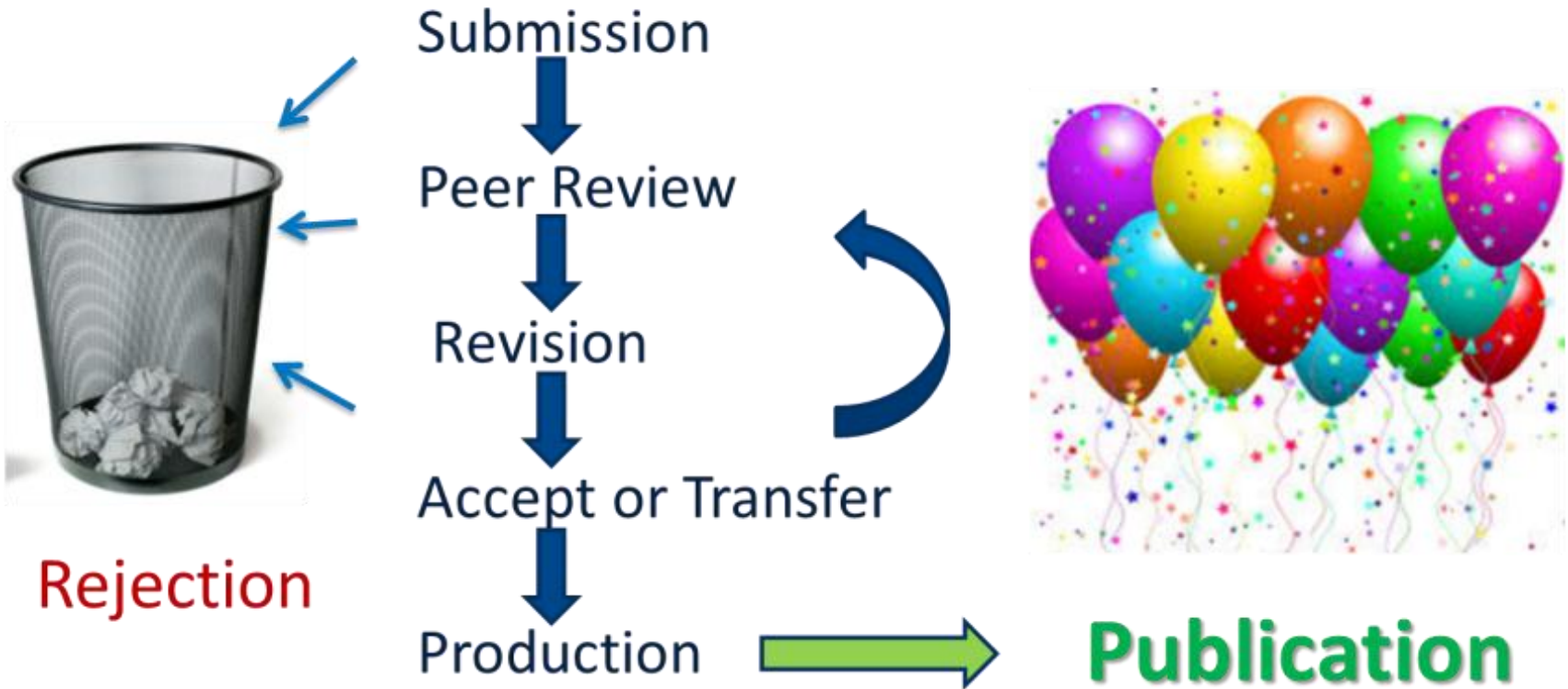
## 2.2. How Should You Construct an Outline?

The classical approach is to start with a blank piece of paper, and write down, in any order, all important ideas that occur to you concerning the paper. Ask yourself the obvious questions: “Why did I do this work?”; “What does it mean?”; “What hypotheses did I mean to test?”; “What ones did I actually test?”; “What were the results? Did the work yield a new method of compound? What?”; “What measurements did I make?”; “What compounds? How were they characterized?”. Sketch possible equations, figures, and schemes. It is

# Peer review

# Peer review

- *the 'life' of a manuscript*



## Peer review

### - *what is peer review?*

- Assessment by independent experts
  - Usually at least two
  - Different reviewers may advise on different aspects
  - Chosen by the editor
- Journals provide guidelines
- Reviewers asked to return their report within two weeks (varies by journal)
- Constructive feedback helps:
  - Editor to make a decision
  - Authors to improve their manuscript

## Peer review

### - *what do peer reviewers look for?*

- Quality
- Soundness of research
- Suitability of methods and analyses
- Soundness of analysis
- Appropriateness of the conclusions
- Reporting/clarity of the message
- Language/presentation
- Contribution to the literature
- Importance/interest
- Suitability to the journal's scope
- Research and publication ethics



# Peer review

## - *why peer review?*

- Ensures that published articles are scientifically sound
- An opportunity to improve manuscripts
- If rejected: take criticism on board before submitting to another journal!

## Peer review

### *- making a decision after peer review*

- Editors make a decision on the basis of the comments from the reviewers and their own assessment
- Reviewers often disagree with each other
- Editors may overrule reviewers
- Editors, not the reviewers, decide ultimately what is published

# Peer review

## - decisions after peer review



### Accepted

- All main aspects of the manuscript been assessed
- The study has been judged to be sound
- Study meets the required threshold for the journal (e.g. significant clinical impact)



### Revisions

- Further experiments needed (e.g. more controls)
- Discuss limitations more clearly
- Ensure data supports conclusions



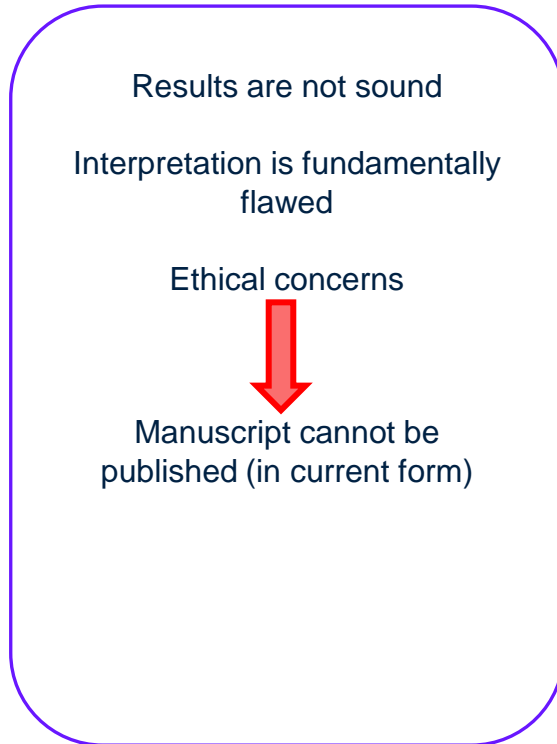
### Rejected

- Extensive revisions required.
- Stats not appropriate
- Lack of ethical approval or missing data
- Inappropriate controls or methods for analysis
- Data do not support conclusions
- No novelty
- Misconduct, e.g. Plagiarism
- Unsuitable for journal scope or threshold

# Peer review

## - rejection reasons why

### Scientific soundness



### Interest/advance



# Publication ethics

# Publication ethics

## - *types of publication misconduct*

- Plagiarism
- Duplicate submission/publication
- Undeclared competing interests
- Unethical research involving humans or animals
- Data falsification/fabrication
- Image manipulation
- Gift/ghost authorship

# Publication ethics

## - *plagiarism*

- Duplication of text or figures from someone else's work
- How much can you copy from someone else's work?
  1. None
  2. 10%
  3. 30%





## Publication ethics

### - *text recycling (self-plagiarism)*

- Duplication of text from your own previous work
- Usually without attribution
- Depends on journal's policy

Try to avoid repeating your published text

- If unavoidable:
  - Be transparent
  - Tell the editor
  - Cite the original article

## Publication ethics

### - text recycling example

Transparently!

Methods (new article):

*The full methods of this study have already been reported in our previous article [6]. Briefly, we conducted a randomised control trial involving patients over the age of 18 who had undergone and elective laparoscopic cholecystectomy in 2007/8 in one of four London teaching hospitals.*

There is no need to repeat the description of the methods as the authors provide a citation for the details. This clarifies that the results reported in the new article are secondary outcomes from the previous study rather than misleading the reader into believing this was another study.

## Publication ethics

### - *duplicate submission*

Is it ok to submit to more than one journal at once?

No!

Consequences of duplicate submission:

- Rejection of both manuscripts
- Editor may contact the authors' institution
- Duplicate publication
- May lead to retraction (14.2% of all retractions)
- Wastes editors' and reviewers' time

# Publication ethics

## - *competing interests*

### Competing interests (CI) can be:

- Financial
- Non-financial

### Importance of declaring CI on submission

- Editor is aware during manuscript assessments
- Editor will not invite reviewers with the same CI
- Reviewers are aware when assessing manuscript
- Readers are aware once published

**Declaring a CI does not mean that an article will not be published**

## Publication ethics

### - *competing interests examples*

In your paper you report that a commercial sequencing technology works very well; you have shares in the company that makes the technology.

Is this a competing interest?

Yes – this is a financial competing interest

## Publication ethics

### - *competing interests examples*

In your paper, you report that there are no adverse effects of smoking on fertility; your husband works in the cigarette industry.

Is this a competing interest?

Yes, this is a non-financial competing interest

# Publication ethics

## - *authorship*

- Agree on authorship early
- Use ICMJE criteria
- Provide correct email addresses for all authors
- Tell the Editor about any changes

What problems can occur?

- Gift authorship
- Ghost authorship
- Authorship disputes

**Authorship disputes can lead to delays**

## Publication ethics

### - *who should not be an author?*

Someone who has only been involved in:

- Acquisition of funding
- Collection of data
- General supervision

Contributors who do not meet the authorship criteria should be listed in the Acknowledgements

Authors should have made substantial contributions, according to ICMJE



## Publication ethics

### - *potential consequences of unethical behavior*

- Article may be rejected
- Article may be retracted (if already published)
- Institution may be contacted
- May be unable to publish in the future - (some) journals ban authors
- Loss of reputation
- Loss of employment



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可以在“检索”页面中最多选择 3 个字段作为默认检索字段。在检索式中最多可输入 6,000 个检索词。

添加新的字段还会将第二个字段设置为 AND 运算符。可以将 AND 运算符改为 OR 或 NOT。

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- 3 个检索字段。默认字段始终是“主题”、“作者”和“出版物名称”。您随时可以选择不同的检索字段。
- 添加另一字段。默认字段始终为“主题”。您随时可以选择不同的检索字段。

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请参阅[选择界面语言](#)。

### 检索运算符优先顺序

如果在检索式中使用不同的运算符，则会根据下面的优先顺序处理检索式：

1. NEAR/x
2. SAME
3. NOT
4. AND
5. OR

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要执行“引用的参考文献检索”，您必须访问 [Web of Science™ 核心合集](#)。

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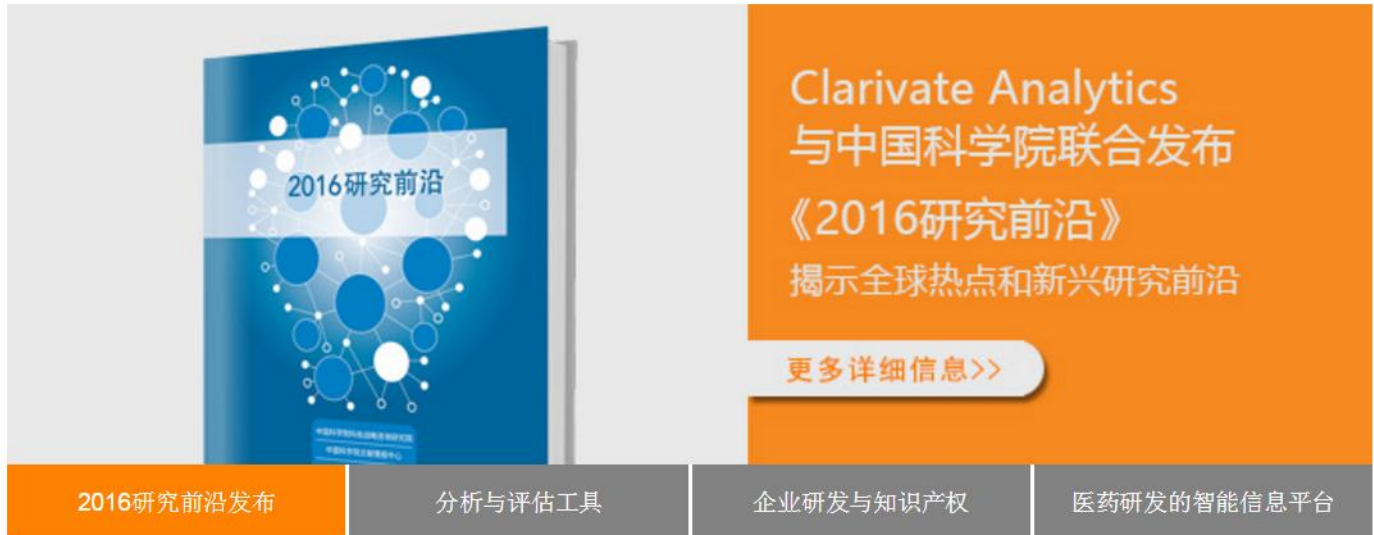
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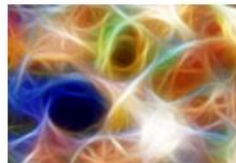


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#### 科学前沿及热点话题



汤森路透发布《2015年全球最具影响力的科研精英》报告，列举了近3000多位来自全球的“高被引科学家”（Highly Cited Researchers, 简称HCR），其中107位是来自中国大陆的科研人员。这些“高被引科学家”们正影响着各自的科研领域，乃至世界的未来发展方向，他们是我们这个时代中最优秀的科

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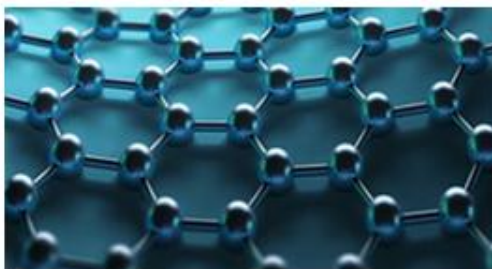
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4月11日 周二 19:00-20:00	提升科研效率的策略和方法	罗昭锋	<a href="#">详细了解或注册课程 &gt;</a>
4月18日 周二 19:00-20:00	继往开来，SCI帮您高效选题与开题	杜进	<a href="#">详细了解或注册课程 &gt;</a>
4月25日 周二 19:00-20:00	精准获取信息的基本功训练 ——如何编写检索式等应用技巧	张素芳	<a href="#">详细了解或注册课程 &gt;</a>
5月2日 周二 19:00-20:00	经典文献推动前沿课题	段鑫龙	<a href="#">详细了解或注册课程 &gt;</a>
5月9日 周二 19:00-20:00	如何获得社会科学跨学科的研究前沿	万跃华	<a href="#">详细了解或注册课程 &gt;</a>
5月16日 周二 19:00-20:00	如何经营人文社科研究的Academic Career	郭杨	<a href="#">详细了解或注册课程 &gt;</a>
5月23日 周二 19:00-20:00	为您的研究成果找到“情投意合门当户对”的期刊	万跃华	<a href="#">详细了解或注册课程 &gt;</a>
6月1日 周四 15:00-16:00	InCites在学术竞争力评估中的实践应用	陈振英	<a href="#">详细了解或注册课程 &gt;</a>
6月6日 周二 19:00-20:00	揭秘期刊审稿背后的“黑匣子”	杜耀文	<a href="#">详细了解或注册课程 &gt;</a>
6月8日 周四 15:00-16:00	专利资产 了然于胸	张丹丹	<a href="#">详细了解或注册课程 &gt;</a>
6月13日 周二 19:00-20:00	手把手教你使用Paper神器	樊亚芳	<a href="#">详细了解或注册课程 &gt;</a>
6月15日 周四 15:00-16:00	分析工具升级您的学科服务	段鑫龙	<a href="#">详细了解或注册课程 &gt;</a>
6月20日 周二 19:00-20:00	聚焦研究前沿： ESI Research Fronts助力科研基金申请	余昆	<a href="#">详细了解或注册课程 &gt;</a>
6月22日 周四 15:00-16:00	Time to Research Smarter & Work Wiser ——巧用文献管理软件EndNote X8	余昆	<a href="#">详细了解或注册课程 &gt;</a>
6月27日 周二 19:00-20:00	专利申请文件撰写技巧	马丽娜	<a href="#">详细了解或注册课程 &gt;</a>
6月29日 周四 15:00-16:00	用星统计其实没那么复杂	张丹丹	<a href="#">详细了解或注册课程 &gt;</a>

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# 谢谢大家！

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