

美国化学学会 数据库平台使用指南



iGroup China
maryann@igroup.com.cn

内容提要

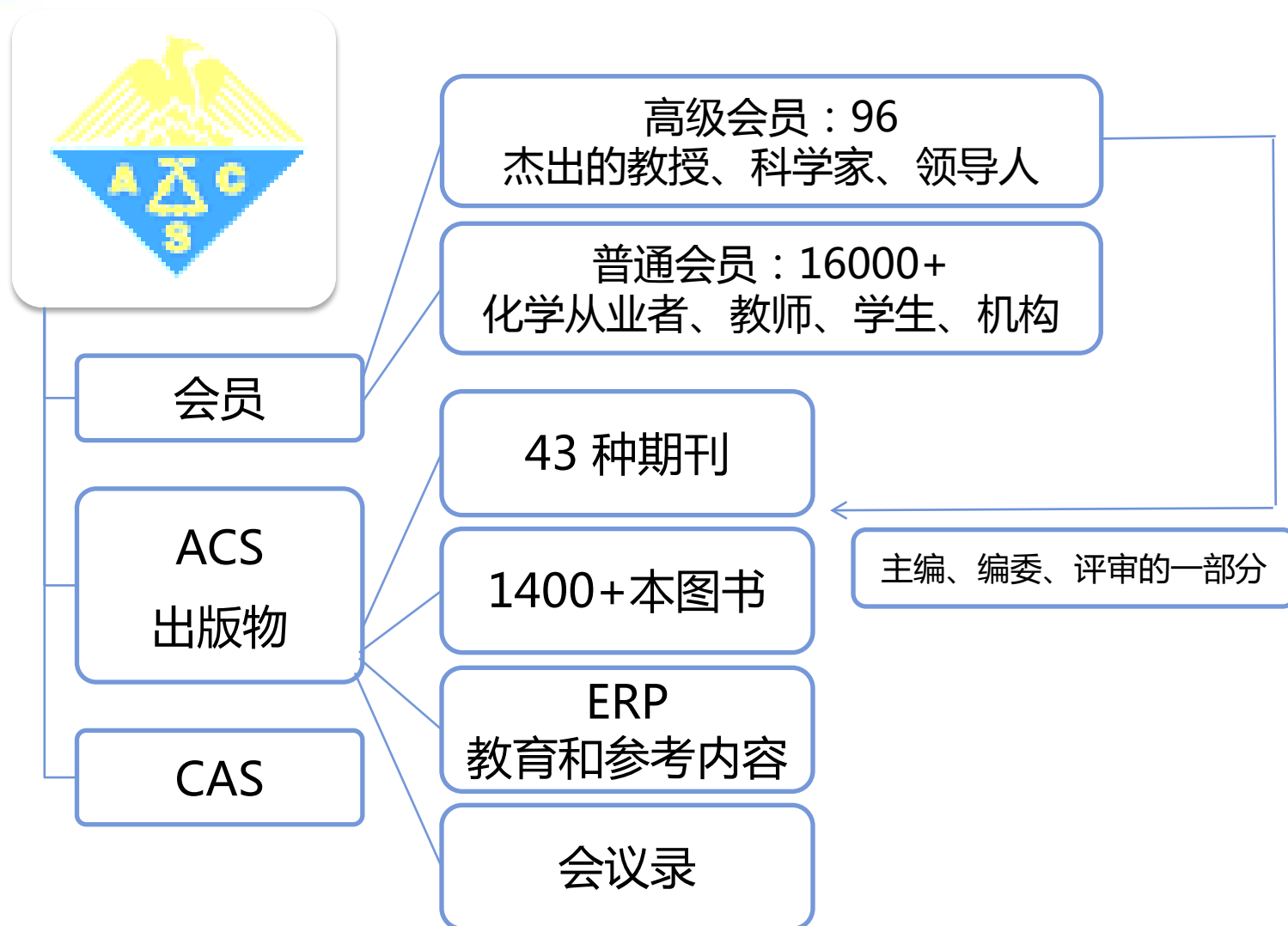
- 学会及其出版物介绍
- 数据库平台的使用
- 常见使用问题

学会简介

美国化学学会 (American Chemical Society) 简称 ACS，成立于1876年，拥有超过**16万**全球会员，是世界上最大的科技学会之一，其权威性和影响力受到全球化学界人士认可和推崇。

iGroup **独家**代理 ACS出版的期刊、电子书和会议录，及其下属美国化学文摘社 (CAS) 数据库。

学会构成 – 2013~2014



ACS 期刊概览

2013 年最高 IF - 45.661

CHEMICAL REVIEWS

截至 2013 年最高总引用量 - 462,510

J | A | C | S

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

2011-2012 发文量最多 - 6449

THE JOURNAL OF PHYSICAL CHEMISTRY C

ACS期刊地位一览

	期刊种数 2014	被SCI 收录	Q1 期刊	影响因 子 > 5
数量	46	44	37	19

2013 年产生的对前一年发表文的引用
量平均上涨 ↑ 11%

2013年IF 平均上涨 ↑ 4.14%

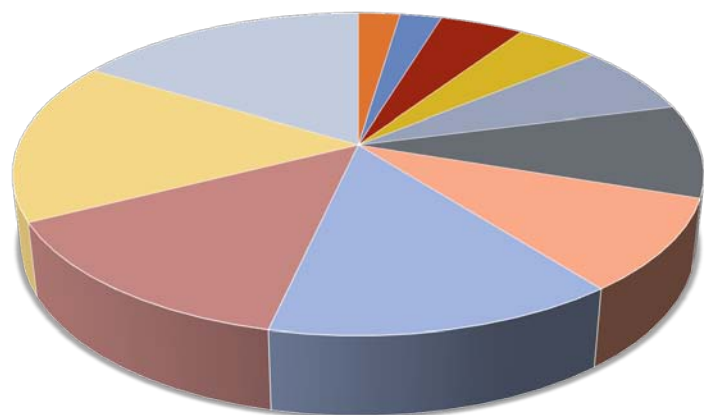
ACS 期刊概览

期刊名称	期刊地位
Chemical Reviews	跨学科化学类期刊影响因子第1名
Journal of Agricultural and Food Chemistry	跨学科农业学类期刊影响因子第2名、引用量和发文数量第1名
Journal of Medicinal Chemistry ACS Chemical Neuroscience Chemical Research in Toxicology Journal of Chemical Information & Modeling	包揽医药化学类期刊影响因子第3至第6名
Environmental Science and Technology	环境工程类期刊影响因子第2名、引用量和发文数量第1名
Industrial & Engineering Chemistry Research	化工类期刊引用量第1名
Langmuir	跨学科材料学类期刊引用量第1名
The Journal of Organic Chemistry	有机化学类期刊引用量第1名

被期刊引用报告 (JCR) 评为 “化学领域被引用最多的期刊”

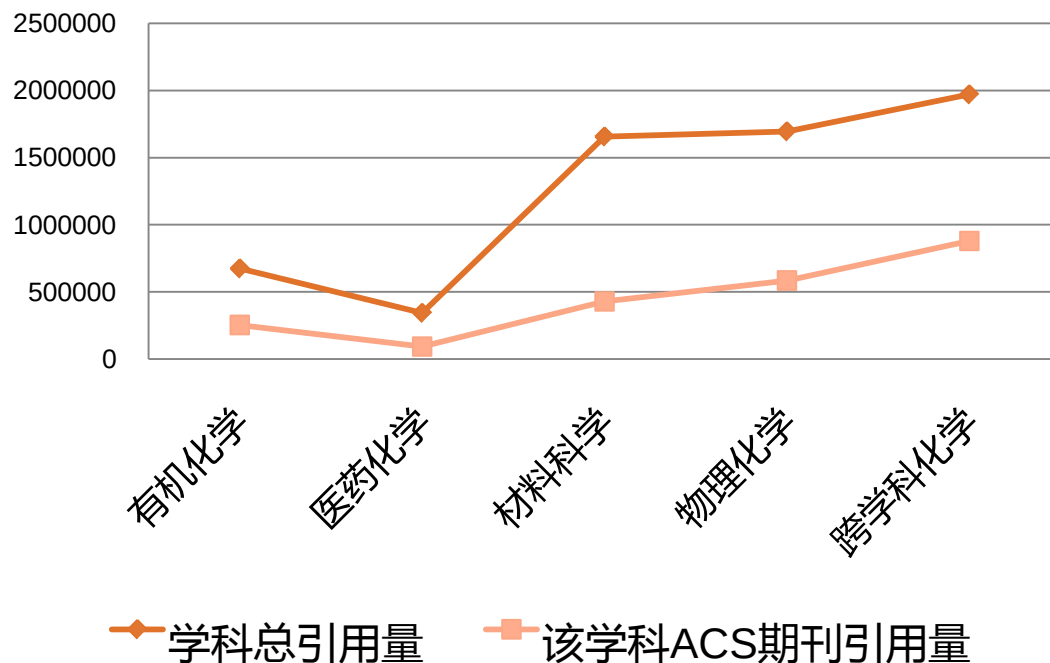
ACS 期刊概览

ACS期刊的学科分布



- 分析化学
- 环境工程
- 有机化学
- 材料科学
- 物理化学
- 医药化学
- 食品科学
- 高分子科学
- 化学工程
- 生物化学
- 跨学科化学 (综合)

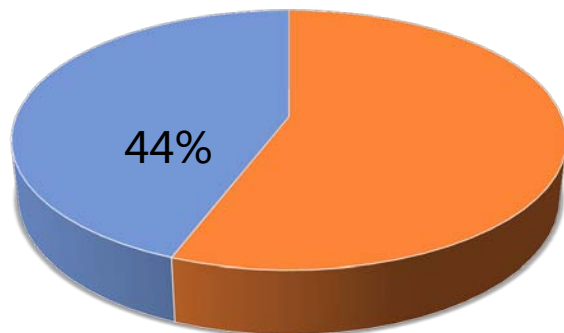
引用量占学科的比例



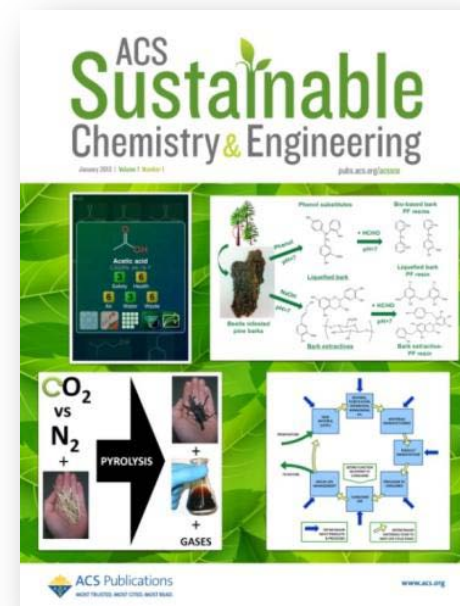
2013 年新刊

- 《ACS 可持续化学和化工》 (ACS Sustainable Chemistry & Engineering) 2013 年正式出版
- 关注领域涵盖绿色化工、新能源、废物处理、生物材料等，为研究者和企业的生产和工程规划指出高效合理的解决之道，以应对各类环保命题
- <http://pubs.acs.org/journal/ascecg>

年份分布

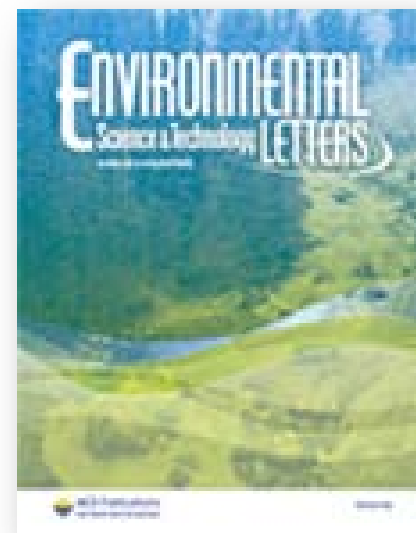


■ 2000年前创刊 ■ 2000年后创刊



2014 年新刊

- 2014 年，ACS 将推出新刊《环境科学和技术快报》(Environmental Science & Technology Letters，简称ES&T Letters，仅出版电子刊)
- 由宾夕法尼亚州立大学土木与环境工程系主任 Bruce Logan 担任主编
- 以快报形式，为全球跨学科化学的研究者提供了一个发布新颖和重要成果的便捷途径，以求推动整个环境科学领域的发展进程
- ASAP文章现已上线！
<http://pubs.acs.org/journal/estlcu>



互补刊

- 《环境科学和技术》
- 《ACS可持续化学和化工》

2014 年新刊

- 《ACS 光子学》主要研究光学现象与物质性能的相互作用
- 主编Harry A. Atwater为加州理工大学应用物理学教授，在太阳能电池方面有深入的研究，2012 年获得了国际光学工程学会的绿色光学奖 (SPIE Green Photonics Award)
- 研究对象包括高分子光电材料、等离子体超级材料、光学晶体、光学交换和光学储存、量子光学作用...
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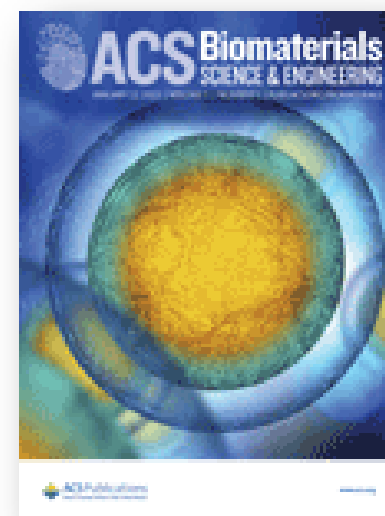
互补刊

- 《物理化学A》
- 《物理化学快报》

2015 年新刊

- 《ACS生物材料科学和工程》
- 创刊主编David Kaplan，美国塔夫斯大学生物医学工程教授、博导，苏州大学现代丝绸国家工程实验室客座教授
- 话题涵盖生物材料建模、新型生物材料的合成和建模、仿生材料研发、生物材料的界面和相互作用、再生医学等
- 2014年10月起接受投稿

<http://pubs.acs.org/journal/abseba>



互补刊

- 《生物大分子》
- 《ACS应用材料和界面》

2015 年新刊

- 《ACS传热疾病》
- 创刊主编Courtney C. Aldrich，明尼苏达大学药学院的副教授，主要研究方向是用于肺结核治疗的新型抗菌药物
- 话题涵盖抗菌素的研发、药物靶点区分、抗药性机制、宿主与病原体的相互作用、小分子疫苗佐剂等
- 2014年10月起接受投稿

<http://pubs.acs.org/journal/aidcbc>



互补刊

- 《药物化学》
- 《蛋白质组研究》

2015 年新刊

- 《ACS核心科学》
- ACS的第一种全OA期刊
- 每年发文100~200篇
- 不向作者收取任何版面费
- 跨学科期刊，涵盖生物化学、生物制药、纳米技术、化学工程、能源工程、大气化学等
- 2014年11月起接受投稿

<http://pubs.acs.org/journal/aidcbc>



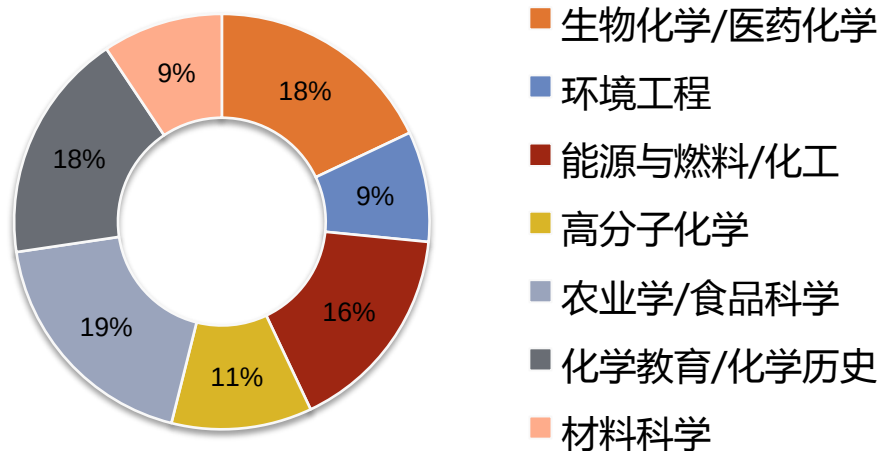
ACS 图书概览

Advances
in Chemistry

ACS
Symposium
SERIES

- 包括Symposium系列和Advance in Chemistry系列，从1949年至今，共1400多本；现每年更新30本。
- 内容涵盖半个多世纪的化学发展历程、教学资料和研究成果。
- 农业和食品科学、生物化学、高分子化学、新型材料、环境科学与工程等领域的精华。
- 国科图仅收录其中320多本纸质书，且年代不连贯。

ACS Symposium Series 图书 (2010~2013) 学科比例



ACS 图书概览

ACS主办：下属技术部门	联合主办或外部主办：其他权威学协会
化学历史部门	美国物理协会
生物技术部门	美国化学工程师学会
环境科学部门	美国环保署
化学健康与安全部门	美国国家安全委员会
化学教育部门	美国塑料工程师学会
化工研究部门	美国核学会
食品科学部门	美国食品科学学会
大分子秘书处	国际纯粹与应用化学联合会
ACS各地分会	大型化学企业
...	...

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ACS 数据库平台概览

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125,000

2012年当年平台访问人次

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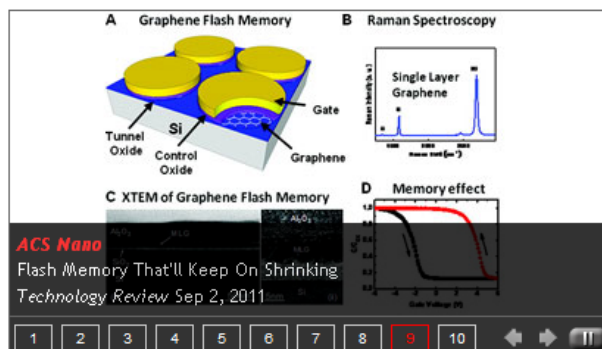
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ACS Applied Materials & Interfaces
ACS Catalysis—New in 2011
ACS Chemical Biology

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View the [video profile](#) of JACS Editor-in-Chief, Peter J. Stang and [watch the White House ceremony](#) at which President Obama honors the seven National Medal of Science recipients.



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Digital Object Identifier (DOI)

10.1021/

D

分学科查看

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Select a CAS section from the 5 main topical divisions below:

- ☒ Applied
 - » Air Pollution and Industrial Hygiene
 - » Apparatus and Plant Equipment
 - » Cement, Concrete, and Related Building Materials
 - » Ceramics

E

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DOI

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Search Filters

New Search

Filters Applied:

Abstract: PM 2.5 [Remove]

Content Type

Book Chapter (2)

C&EN Archives Article (1)

Journal Article (63)

Section

Air Pollution and Industrial Hygiene (27)

Amino Acids, Peptides, and Proteins (1)

Biochemical Genetics (1)

Biochemical Methods (4)

Catalysis, Reaction Kinetics, and Inorganic Reaction Mechanisms (1)

Chemistry of Synthetic High Polymers (1)

Electric Phenomena (1)

Food and Feed Chemistry (1)

Fossil Fuels, Derivatives, and Related Products (4)

在一次检索结果页面的右侧筛选
 Content Type>>从检索结果选择ACS
 电子书、C&EN存档刊或期刊的文章
 Section>>选择所在学科
 Publication>>选择所在期刊
 Manuscript Type>>选择文章体裁。
 Author>>选择某位作者
 Date Range>>选择某个时段的文章

检索方式 A

Search Results  Sort By:

5 journal, special issue, book series, and/or book titles match your search [- Hide Titles](#)

Book Titles

- > [Allelochemicals: Role in Agriculture and Forestry](#)
- > [Crop Protection Products for Organic Agriculture](#)
- > [Mycotoxin Prevention and Control in Agriculture](#)
- > [Oligosaccharides in Food and Agriculture](#)
- > [PESTICIDES IN TROPICAL AGRICULTURE](#)

如果检索结果中含有特刊或电子书，可点开右栏的 show title 查看标题

Search Results  Sort By:

[All \(66\)](#) [Research \(65\)](#) [News, Features, Commentary \(1\)](#)

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Relevance
Publication Date
Manuscript Type
Publication Title
First Author's Last Name

检索结果按相关程度、文章发表时间、体裁等排列

检索方式 D

推荐

Search Citation DOI **Subject Search** Advanced Search

Select a CAS section from the 5 main topical divisions below: [X]

- ☒ Applied
- ☒ Biochemistry
 - > Agrochemical Bioregulators
 - > Animal Nutrition
 - > Biochemical Genetics
 - > Biochemical Methods
 - > Enzymes
 - > Fermentation and Bioindustrial Chemistry
 - > Fertilizers, Soils, and Plant Nutrition
 - > Food and Feed Chemistry
 - > General Biochemistry
 - > History, Education, and Documentation
 - > Immunochemistry
 - > Mammalian Biochemistry
 - > Mammalian Hormones
 - > Mammalian Pathological Biochemistry
 - > Microbial, Algal, and Fungal Biochemistry
 - > Nonmammalian Biochemistry
 - > Pharmacology
 - > Plant Biochemistry
 - > Radiation Biochemistry
 - > Toxicology
- ☒ Macromolecular
- ☒ Organic
- ☒ Physical, Inorganic, and Analytical

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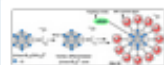
- 应用化学
- 生物化学
- 大分子
- 有机化学
- 物理+无机+分析化学

检索方式 D 推荐

This section includes the biochemical effects of high- and low-energy radiation, and the metabolism and biochemical effects of radioisotopes and radioactive fallout. The section also includes biochemical studies with radioprotectants, radiomimetics, radiosensitizers, radioisotope

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Research Article

[cRGD Peptide-Conjugated Icosahedral \$\text{closo-B}_{12}^{2-}\$ Core Carrying Multiple \$\text{Gd}^{3+}\$ -DOTA Chelates for \$\alpha_v\beta_3\$ Integrin-Targeted Tumor Imaging \(MRI\)](#)

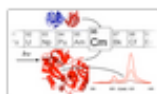
Lalit N. Goswami, Lixin Ma, Quanyu Cai, Saurav J. Sarma, Satish S. Jalisatgi, and M. Frederick Hawthorne

Inorg. Chem.

Publication Date (Web): February 7, 2013

DOI: 10.1021/ic302340c

A vertex-differentiated icosahedral closo-B_{12}^{2-} core was utilized to construct a $\alpha_v\beta_3$ integrin receptor-targeted (via cRGD peptide) high payload MRI contrast agent (CA-12) carrying 11 copies of Gd^{3+} -DOTA chelates attached to the closo-B_{12}^{2-} surface via ...



Research Article

[Sensitizing Curium Luminescence through an Antenna Protein To Investigate Biological Actinide Transport Mechanisms](#)

Manuel Sturzbecher-Hoehne, Christophe Goujon, Gauthier J.-P. Deblonde, Anne B. Mason, and Rebecca J. Abergel

J. Am. Chem. Soc.

Publication Date (Web): January 30, 2013

DOI: 10.1021/ja310957f

Worldwide stocks of actinides and lanthanide fission products produced through conventional nuclear spent fuel are increasing continuously, resulting in a growing risk of environmental and human exposure to these toxic radioactive metal ions. ...

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Radiation Biochemistry

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2013, 7 (10), pp 8313-8316
Publication Date (Web): October 22, 2013 (Editorial)
DOI: 10.1021/nn405306e

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Wolfgang J. Parak, Warren C. W. Chan, Jason H. Hafner, Paula T. Hammond, Mark C. Hersam, Ali Javey, Ali Khademhosseini, Nicholas A. Kotov, Paul Mulvaney, Andre E. Nel, Peter J. Nordlander, Reginald M. Penner, Andrey L. Rogach, Raymond E. Schaak, Molly M. Stevens, Andrew T. S. Wee, C. Grant Willson, Paul S. Weiss

2013, 7 (10), pp 8313-8316
Publication Date (Web): October 22, 2013 (Editorial)
DOI: 10.1021/nn405306e

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January 17, 2013
Volume 27, Issue 1
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Kai Zhang and Changfu You

pp 20-26

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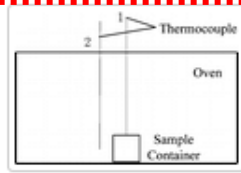
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The spontaneous ignition that occurs with upgraded lignite products is a concern for its storage, handling, and transportation. The Basket testing method and Oxidation Kinetics testing method were used to identify the propensity for upgraded lignite products to spontaneously ignite. The evaluation index for the Basket testing method was spontaneous ignition temperatures and duration. The fundamental evaluation index (I) for the Oxidation Kinetics testing method was used to evaluate the propensity for spontaneous ignition. For both testing methods, all three of the lignite samples (Huolinhe lignite, Hailaer lignite, and Indonesia lignite) showed that the propensity for spontaneous ignition decreased linearly with the increase in water content of the upgraded lignite product. Commonly used Chinese bituminous coals, which are not prone to spontaneous ignition, were used as a benchmark for determining the recommended water content for upgraded lignite products. For Huolinhe lignite, Hailaer lignite, and Indonesia lignite, the recommended water contents of the upgraded products are 6.53%, 4.28%, and 7.83%, respectively. The method that was developed to determine the recommended water content could be used to guide engineering design and operations when using upgraded lignite that is highly susceptible to spontaneous ignition.

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Effect of Upgraded Lignite Product Water Content on the Propensity for Spontaneous Ignition

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Markus Ritzefeld †, Volker Walhorn ‡, Christin Kleiberg ‡, Adeline Bieker ‡, Klaus Kock §, Christian Herrmann §, Dario Anselmetti ‡, and Norbert Sewald *†

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Markus Ritzefeld †, Volker Walhorn ‡, Christin Kleiberg ‡, Adeline Bieker ‡, Klaus Kock §, Christian Herrmann §, Dario Anselmetti ‡, and Norbert Sewald *†

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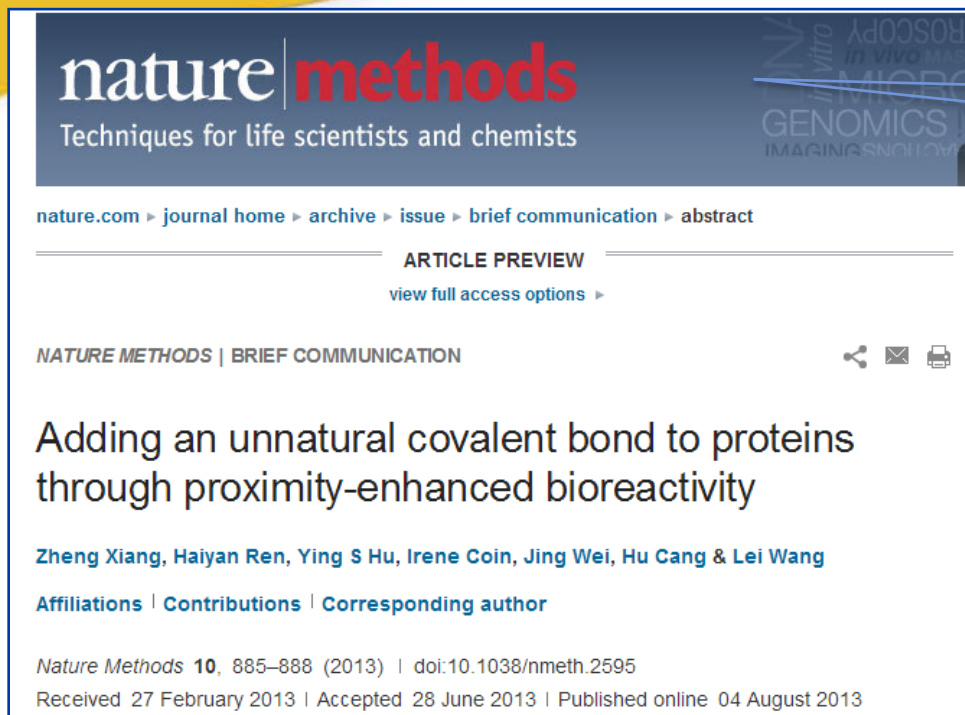
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Jeffrey K. Takimoto †, Nikki Dellas †, Joseph P. Noel †, and Lei Wang †*

The Jack H. Skirball Center for Chemical Biology & Proteomics
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Xiao-Rong Kang †, Guang-Ming Zhang *†, Lin Chen †, Wen-Yi Dong †, and Wen-De Tian †
†School of Municipal and Environmental Engineering, and *Harbin Institute of Technology Shenzhen Graduate School, Harbin Institute of Technology, Harbin 150090, China

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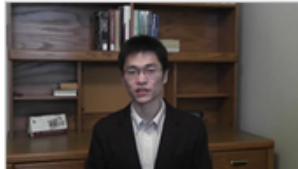
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