



“To be the world’s most trusted source of the comprehensive knowledge needed to cultivate the chemists of tomorrow”



ACS Publications
Most Trusted. Most Cited. Most Read.

Contents

- 1 ACS 数据库资源介绍
- 2 ACS 数据库平台介绍
- 3 ACS 期刊投稿
- 4 化学类文献资料检索

ACS 世界上最大的科技学会

- ✚ 成立于 1876 年
- ✚ 157,000 来自世界各地的 ACS 会员
- ✚ 每年举办两次 ACS National Meetings
- ✚ 32 个下属技术部门



1 ACS 数据库资源介绍

主要出版物：

ACS Journals 期刊

ACS Ebooks 电子图书

C&EN Global Enterprise
化学与工程全面事业平台

ACS PUBLICATIONS, A DIVISION
OF THE ACS, VISION STATEMENT

“To be the world’s most trusted
source of the comprehensive
knowledge needed to cultivate
the chemists of tomorrow”

- **50 种经过严格同行评审的高品质期刊:**
 - New in 2016: *ACS Sensors*, *ACS Energy Letters*, and *ACS Omega*
 - 40,000+ 每年增加的研究类文章数
- **1,000,000+ 原创的研究类文章**
- **在6个化学核心学科和8个相关学科中，**
具有最多的被引用量或最高的影响因子
- **化学领域最多的被引用量**
2015年的被引用量超过270万
比化学领域其他任何期刊都要多
- **被Journal Citation Report(JCR) 评为**
“**化学领域被引用次数最多的期刊**”

We are Stewards of the Most Prestigious Journals in Chemistry-Related Science

**JOURNAL OF THE AMERICAN
CHEMICAL SOCIETY**
美国化学会志

CHEMICAL REVIEWS
化学评论

**ACCOUNTS OF CHEMICAL
RESEARCH**
化学研究述评

“To be the world’s most trusted source of the comprehensive knowledge needed to cultivate the chemists of tomorrow”

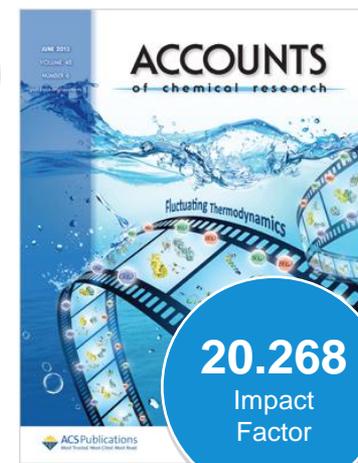


13.858
Impact
Factor

**JACS began
publication in 1879**



47.928
Impact
Factor

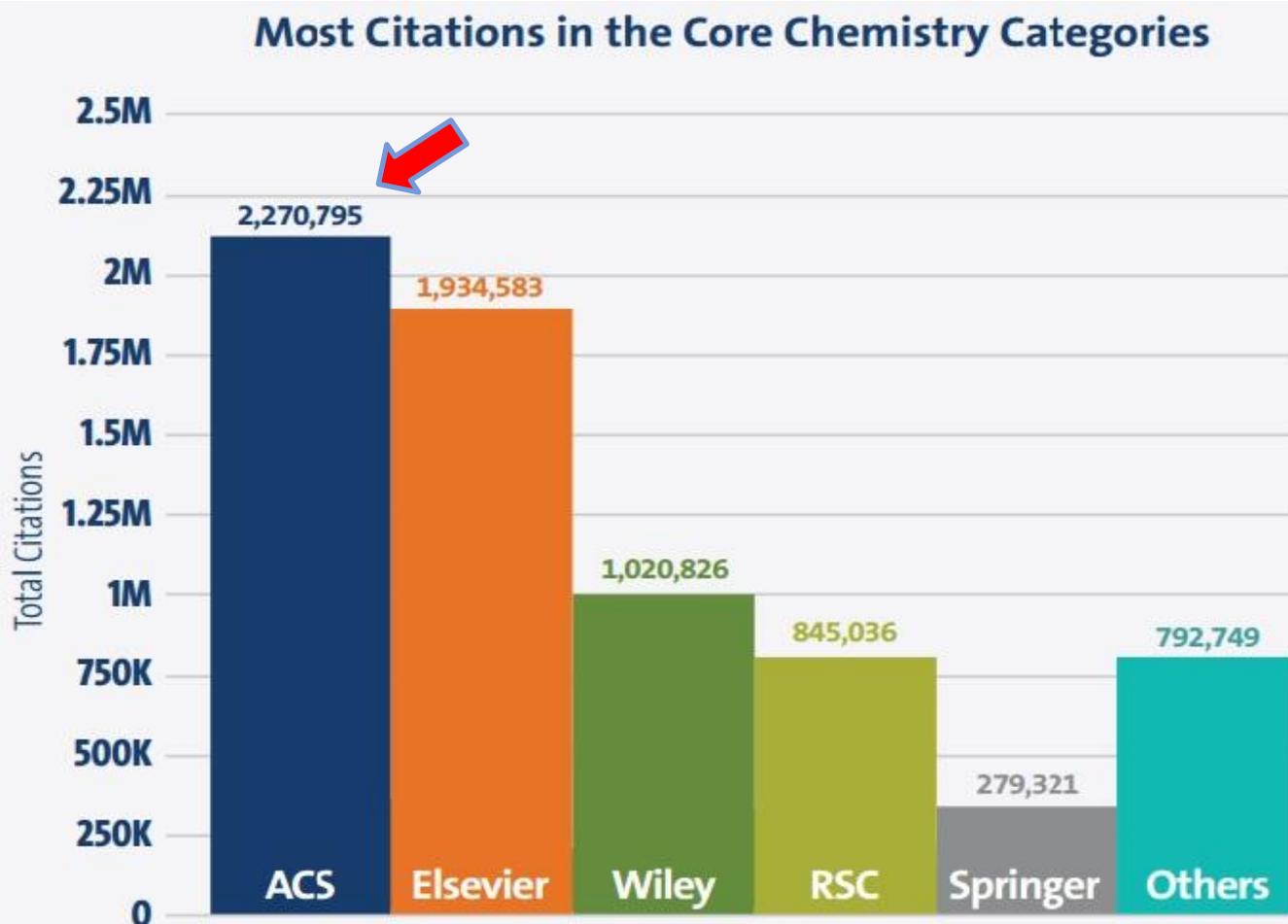


20.268
Impact
Factor

Publishing disciplines

- ✚ Agriculture
- ✚ Analytical Chemistry
- ✚ Biochemistry, Molecular Biology
- ✚ Biotechnology Applied
- ✚ Microbiology
- ✚ Chemical Engineering
- ✚ Chemical Information
- ✚ Chemistry (General)
- ✚ Clinical Chemistry
- ✚ Computational Chemistry
- ✚ Crystallography
- ✚ Energy and Fuels
- ✚ Environmental Science
- ✚ Food Science and Technology
- ✚ Inorganic Chemistry
- ✚ Materials Science
- ✚ Medicinal Chemistry
- ✚ Nanoscience
- ✚ Organic Chemistry
- ✚ Pharmacology and Pharmacy
- ✚ Physical Chemistry
- ✚ Polymer Science
- ✚ Theoretical Chemistry
- ✚ Toxicology

数据：ACS期刊 2015 IF 和 Total Citations



2015 Journal Citations Reports® (Thomson Reuters, 2016)

ACS Publications maintains the highest editorial standards, resulting in the highest-quality published research. Year after year, ACS Publications remains the most cited publisher in chemistry.

ACS 期刊 学科分类

Classic Chemistry : 无机化学 , 有机化学 , 物理化学 , 分析化学

期刊名称	期刊名称 (中文)	2015 IF	2015 Cites
Crystal Growth & Design	《晶体生长与设计》	4.425	27,425
Inorganic Chemistry	《无机化学》	4.82	94,152
Organic Letters	《有机物快报》	6.732	93,278
Organic Process Research & Development	《有机工艺研究与开发》	2.922	5,477
Organometallics	《有机金属》	4.186	44,032
The Journal of Organic Chemistry	《有机化学》	4.785	103,378
ACS Photonics	《ACS光子学》	5.404	1364
The Journal of Physical Chemistry A	《物理化学A》	2.883	58,787
The Journal of Physical Chemistry B	《物理化学B》	3.187	117,928
The Journal of Physical Chemistry C	《物理化学C》	4.509	122,454
The Journal of Physical Chemistry Letters	《物理化学快报》	8.539	26,225
ACS Sensor	《ACS传感器》	x	x
Analytical Chemistry	《分析化学》	5.886	113,519

ACS 期刊 学科分类

催化，化工，能源，环境科学

期刊名称	期刊名称 (中文)	2015 IF	2015 Cites
ACS Catalysis	《ACS催化》	9.307	15,646
ACS Sustainable Chemistry & Engineering	《ACS可持续化学和化工》	5.267	3,261
Industrial & Engineering Chemistry Research	《化工研究》	2.567	54,145
Journal of Chemical & Engineering Data	《化工数据》	1.835	17,089
ACS Energy Letters	《ACS能源快报》	×	×
Energy & Fuels	《能源和燃料》	2.835	28,325
Environmental Science & Technology	《环境科学和技术》	5.393	127,061
Environmental Science & Technology Letters	《环境科学和技术快报》	4.839	493

高分子，材料化学，纳米科学

期刊名称	期刊名称 (中文)	2015 IF	2015 Cites
ACS Macro Letters	《ACS大分子快报》	5.766	5,075
Macromolecules	《大分子》	5.554	100,687
ACS Applied Materials & Interfaces	《ACS应用材料和界面》	7.145	54,997
Chemistry of Materials	《材料化学》	9.407	88,075
Langmuir	《朗缪尔》	3.993	115,942
ACS Nano	《ACS纳米》	13.334	97,676
Nano Letters	《纳米快报》	13.779	129,399

ACS 期刊 学科分类

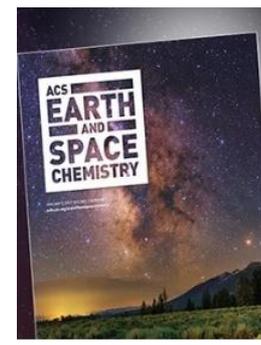
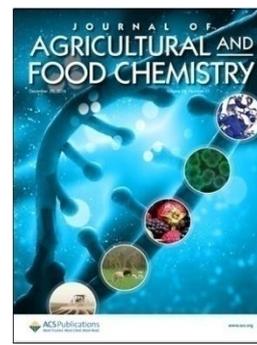
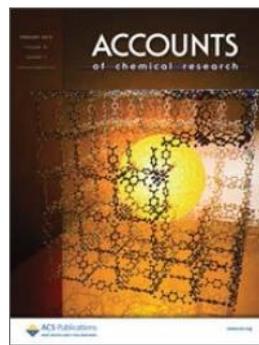
生物化学，药物化学

期刊名称	期刊名称 (中文)	2015 IF	2015 Cites
ACS Biomaterials Science & Engineering	《ACS生物材料科学和工程》	×	×
ACS Chemical Biology	《ACS化学生物学》	5.09	7,546
ACS Synthetic Biology	《ACS合成生物学》	6.076	1,508
Biochemistry	《生物化学》	2.876	79,348
Bioconjugate Chemistry	《生物共轭化学》	4.5	14,322
Biomacromolecules	《生物大分子》	5.583	32,282
Journal of Natural Products	《天然产物》	3.662	21,811
Journal of Proteome Research	《蛋白质组研究》	4.173	20,394
ACS Chemical Neuroscience	《ACS化学神经科学》	4.348	2,574
ACS Infectious Diseases	《ACS传染疾病》	×	×
ACS Medicinal Chemistry Letters	《ACS药物化学快报》	3.355	3,206
Chemical Research in Toxicology	《毒物学领域的化学研究》	3.025	10,982
Journal of Medicinal Chemistry	《药物化学》	5.589	64,326
Molecular Pharmaceutics	《分子药剂学》	4.342	11,551

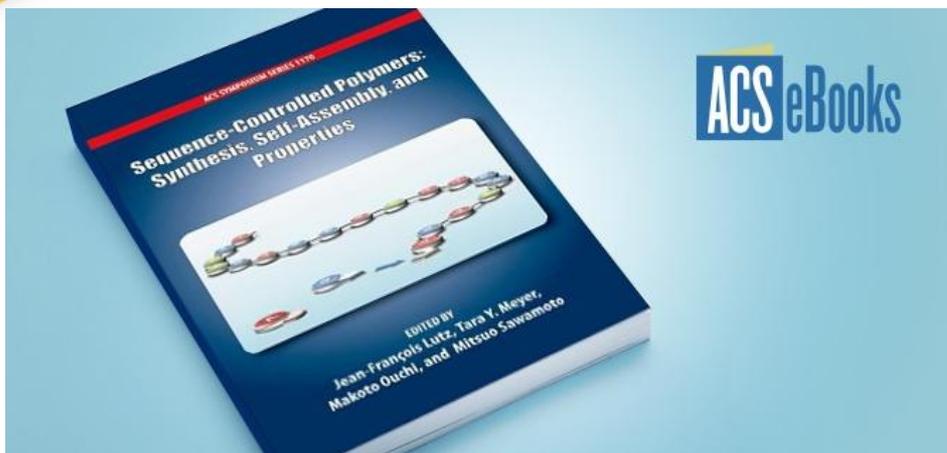
ACS 期刊 学科分类

信息与理论化学，食品化学，地球化学，化学教育，跨学科化学期刊

期刊名称	期刊名称 (中文)	2015 IF	2015 Cites
Journal of Chemical Information and Modeling	《化学信息与建模》	3.657	13,322
Journal of Chemical Theory and Computation	《化学理论与计算》	5.301	20,778
Journal of Agricultural and Food Chemistry	《农业与食品化学》	2.857	90,665
ACS Earth & Space Chemistry	《ACS地球和空间化学》	×	×
Accounts of Chemical Research	《化学研究述评》	22.003	58,876
ACS Combinatorial Science	《ACS组合科学》	3.317	1,253
Chemical Reviews	《化学评论》	37.369	148,154
Journal of Chemical Education	《化学教育》	1.225	8,556
Journal of the American Chemical Society	《美国化学学会会志》	13.038	504,778



ACS 电子图书介绍



ACS电子图书资源内容

涵盖生物医药、环境技术、材料科学、农业与食品科学、高分子化学、化学教育等多个应用领域，记录了半个多世纪的化学发展历程和最新技术成果，被誉为“**资讯的金矿**”

既可为化学科研人员提供专业资料参考
又可为化学教育和学科建设提供素材和范例

资源丰富：

Advances in Chemistry (1949 — 1998)
ACS Symposium Series (1974 — 至今)

- ✚ 1400 多本电子书
- ✚ 27000 多个章节
- ✚ 每年新增30-35本新书

权威性高：

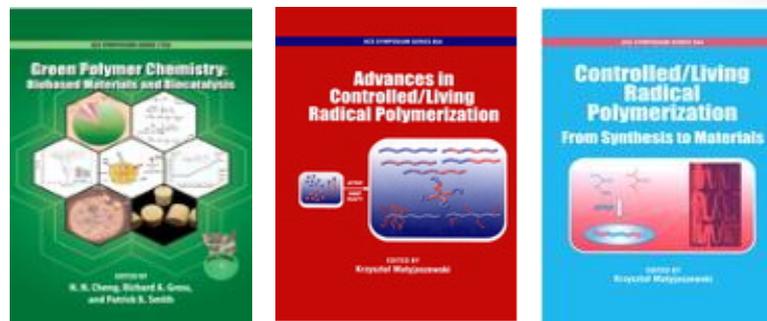
ACS电子书的正文章节由化学领域顶尖学者编写，其中包括34位诺贝尔奖得主，并且均经过同行评审。每本ACS电子书至少有一个主办方，除ACS下属技术部门，还有35个美国及其他国家的科研机构，如美国物理学会、美国航空航天协会、美国生物科学协会等参与编撰

ACS 电子图书介绍

学科领域	ACS 部门主办方	电子书数量	适用的国内学科
生物、医药	BIOT 生物技术 ANLY 分析化学 CINF 化学信息学等	16000章 (超过400本)	生物医学工程、药剂学、 计算机应用技术
环境、农业	ENVR 环境科学 AGRO 农学 AGFD 农业和食品科学等	超过14000章	有机化学、食品科学、 植物学、毒理学
工业、材料	I&EC 无机化学和化工研究 POLY 高分子化学 PMSE 高分子材料科学	10000章 (超过300本)	工业催化、凝聚态物理、 材料加工工程、材料科学
物理、天文	HIST 化学史 PHYS 物理化学等	3000章	原子和分子物理、 放射化学、核技术
地质、能源	GEOC 地球化学 FUEL 燃料化学	1900章	石油与天然气工程
其他(教育学、经济学)	CHED 化学教育 HIST 化学史 SCHB 小型化学企业等	1500章	化学(师范)

ACS 电子图书介绍

学科领域	出版数
化学教育	26
农业与食品	20
环境科学	17
高分子与材料	16
生物与医药	14
化学史	8
化学信息学	6
化工与能源	5
纳米技术	4
物理	3



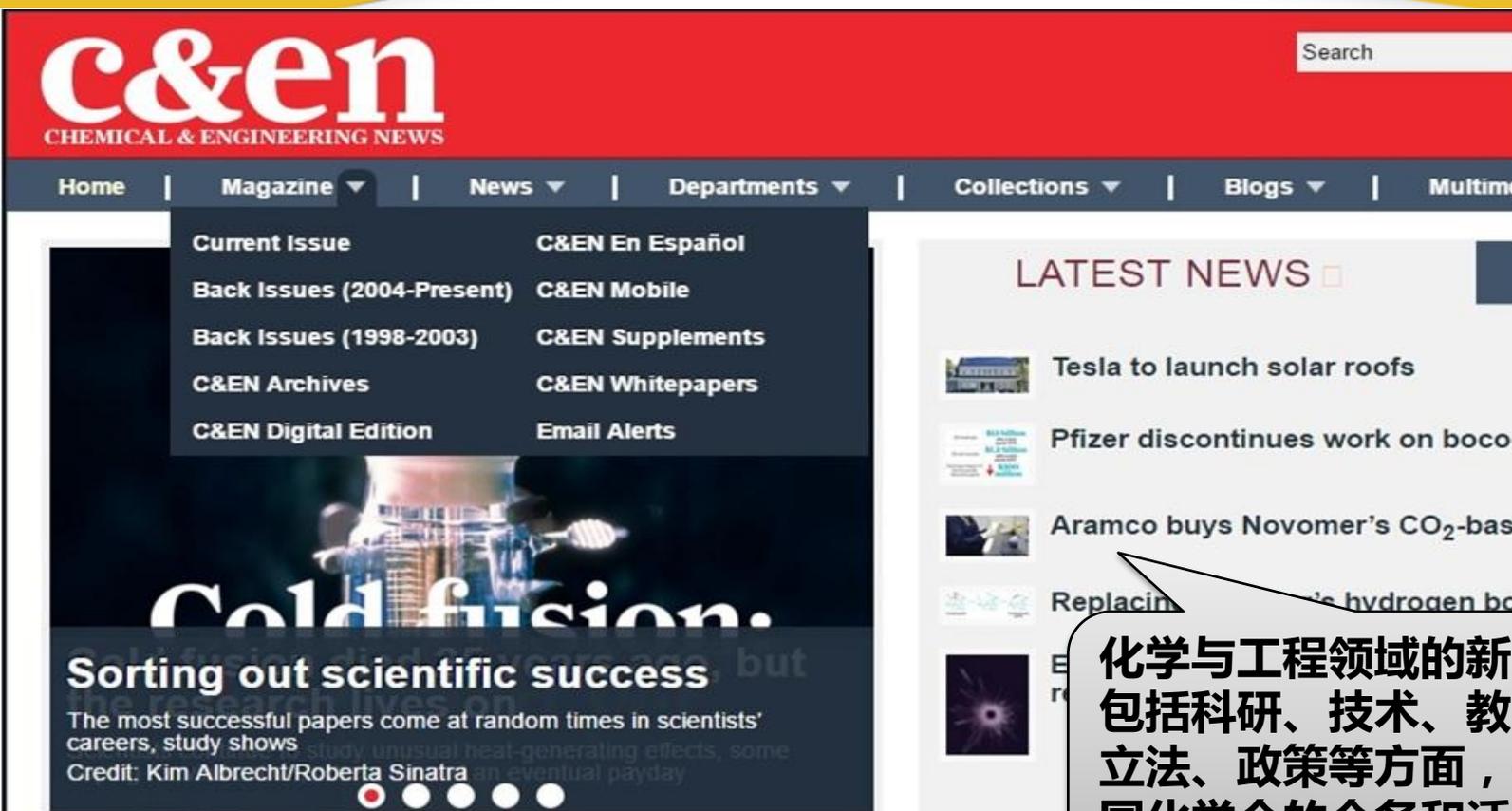
在2013 — 2016 最近四年的新书里

以下领域每年都有新的电子图书出版

-  **化学教育**
-  **农业与食品**
-  **环境科学**
-  **高分子与材料**
-  **生物与医药**

这些领域作为当今化学科研领域中的热门，由电子书的编者和各个学科领域里顶尖的知名学者为读者撰写，记录了相关领域的发展和最近技术成果，揭示并领导了学科的发展方向

C&EN 化学与工程新闻

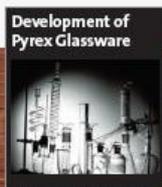


The screenshot shows the C&EN website interface. At the top left is the 'c&en' logo with 'CHEMICAL & ENGINEERING NEWS' underneath. A search bar is located at the top right. Below the logo is a navigation menu with options: Home, Magazine, News, Departments, Collections, Blogs, and Multimedia. A dropdown menu for 'Magazine' is open, listing: Current Issue, Back Issues (2004-Present), Back Issues (1998-2003), C&EN Archives, C&EN Digital Edition, C&EN En Español, C&EN Mobile, C&EN Supplements, C&EN Whitepapers, and Email Alerts. The main content area features a large article titled 'Cold fusion: Sorting out scientific success' with a sub-headline 'The most successful papers come at random times in scientists' careers, study shows'. To the right, a 'LATEST NEWS' section lists several articles with small thumbnail images: 'Tesla to launch solar roofs', 'Pfizer discontinues work on bococ...', 'Aramco buys Novomer's CO₂-base...', and 'Replacing... hydrogen bo...'. A callout box points to the 'Aramco' article.

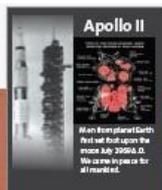
化学与工程领域的新闻和讯息，包括科研、技术、教育、商务、立法、政策等方面，并报道美国化学会的会务和活动



1923



1943



1969



2015

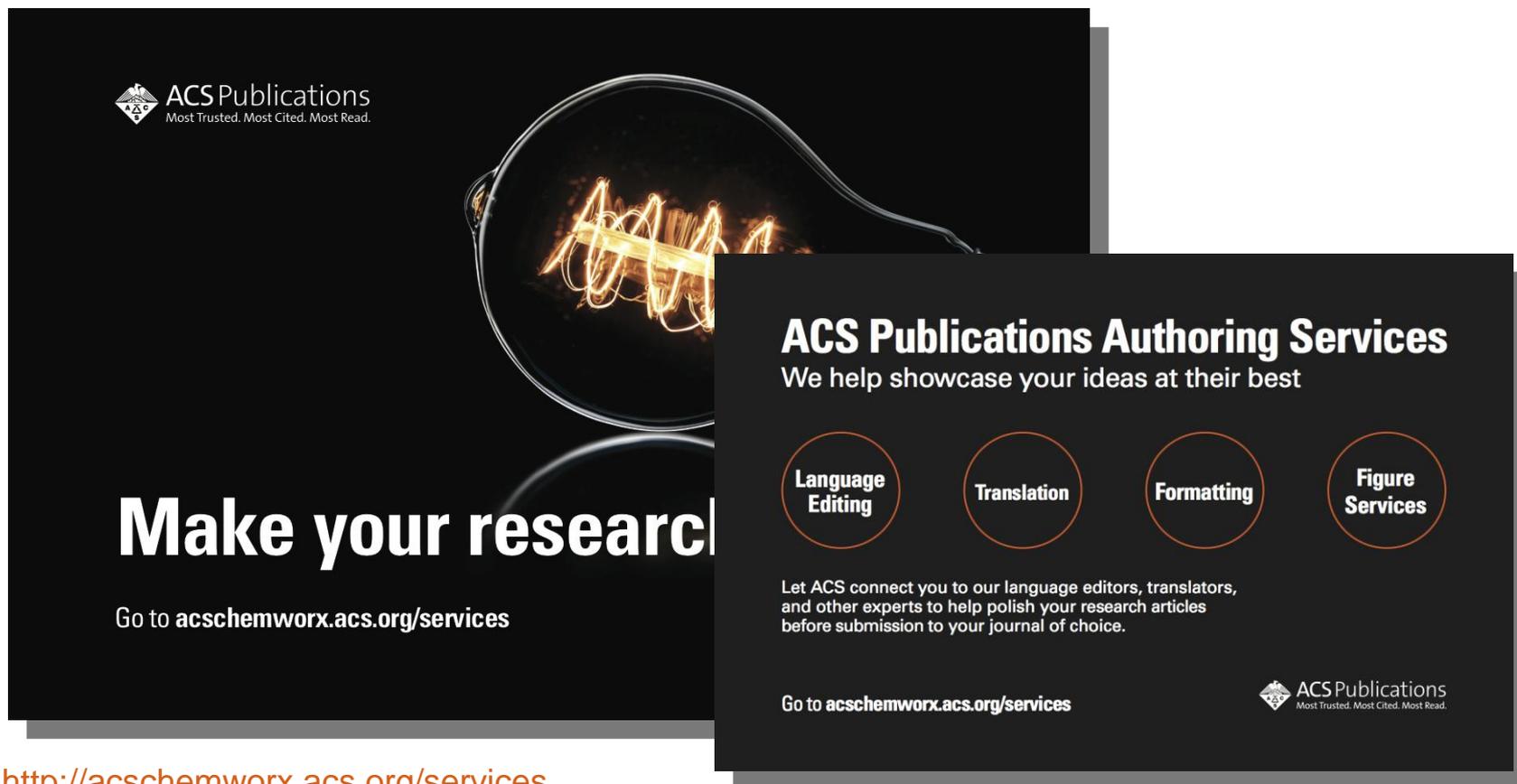


2016

...2016 AND BEYOND



Tools for Authors



 ACS Publications
Most Trusted. Most Cited. Most Read.

Make your research

Go to acschemworx.acs.org/services

ACS Publications Authoring Services

We help showcase your ideas at their best

- Language Editing
- Translation
- Formatting
- Figure Services

Let ACS connect you to our language editors, translators, and other experts to help polish your research articles before submission to your journal of choice.

Go to acschemworx.acs.org/services

 ACS Publications
Most Trusted. Most Cited. Most Read.

<http://acschemworx.acs.org/services>

Manuscript Transfer



**FIND THE
BEST FIT
FOR YOUR RESEARCH.**

Piece together your publishing success
with ACS Manuscript Transfer Service

pubs.acs.org/transfer

 ACS Publications
Most Trusted. Most Cited. Most Read.

ACS 出版物的新内容

New in 2016

Journals

- ✚ **ACS Sensors**
first issue January 2016
- ✚ **ACS Energy Letters**
first issue July 2016
- ✚ **ACS Omega**: first issue July 2016

ACS Sensors and ACS Energy Letters are included in ACS All Publications

ACS Omega is gold open access and available to everyone



ACS 出版物的新内容

New in 2017

Journals & C&EN

- ✦ **C&EN Global Enterprise**
- ✦ **ACS Earth and Space Chemistry:**
first issue now available

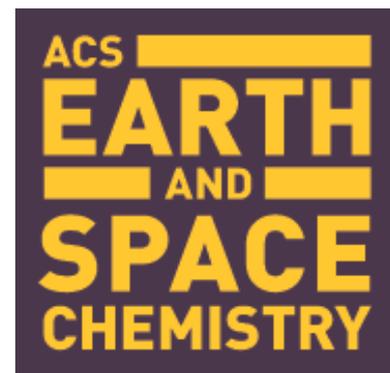
C&EN Global Enterprise and ACS Earth and Space Chemistry are included in ACS All Publications

Products

- ✦ **ACS Reagent Chemicals**



c&en
GLOBAL ENTERPRISE

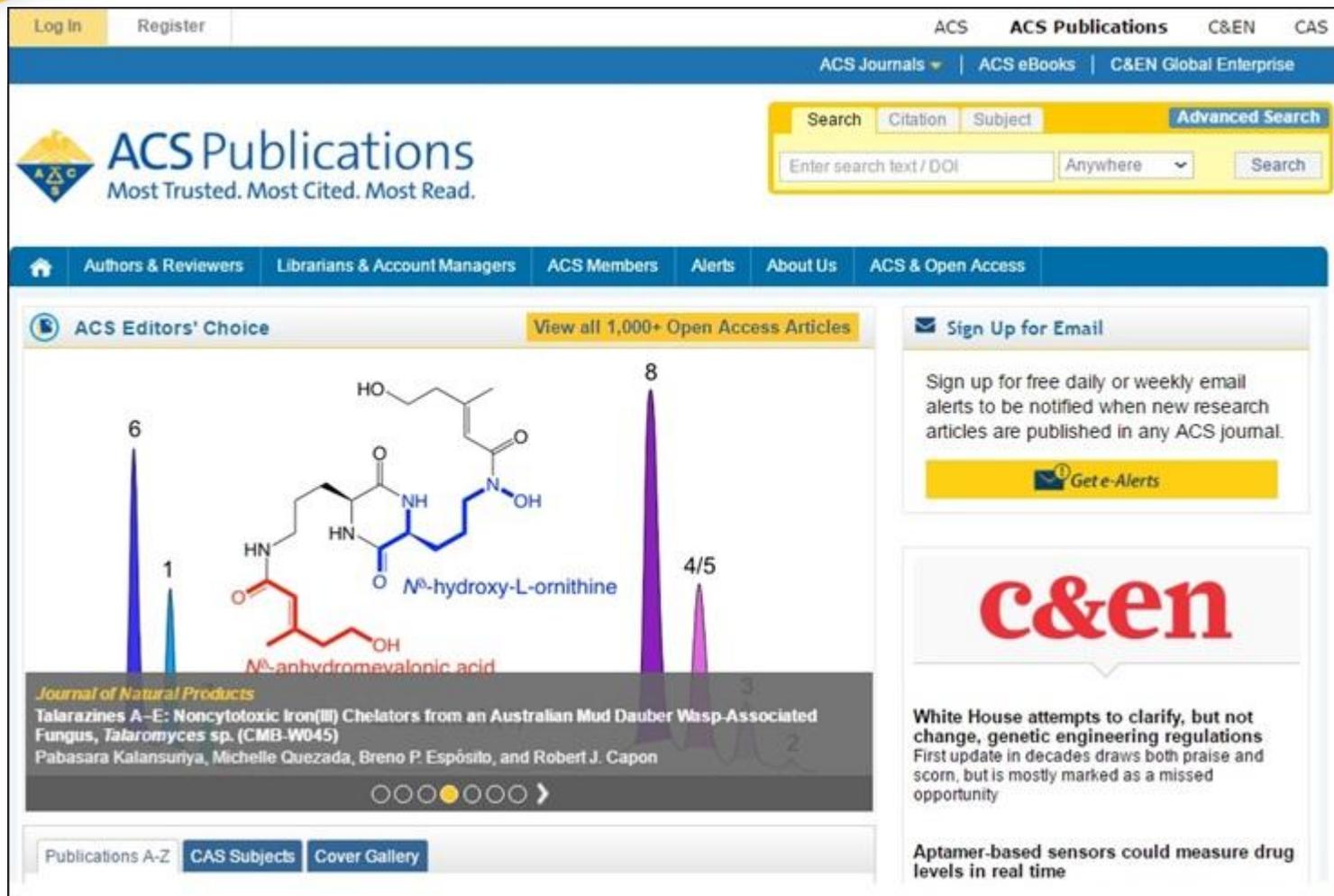


ACS
EARTH
AND
SPACE
CHEMISTRY



ACS REAGENT
CHEMICALS

2 ACS 数据库平台介绍



The screenshot displays the ACS Publications website interface. At the top, there are navigation links for "Log In", "Register", "ACS Publications", "C&EN", and "CAS". Below this is a search bar with options for "Search", "Citation", "Subject", and "Advanced Search". The main header features the ACS Publications logo and the tagline "Most Trusted. Most Cited. Most Read." A navigation menu includes "Authors & Reviewers", "Librarians & Account Managers", "ACS Members", "Alerts", "About Us", and "ACS & Open Access".

The main content area is titled "ACS Editors' Choice" and features a featured article from the *Journal of Natural Products*. The article title is "Talarazines A–E: Noncytotoxic Iron(III) Chelators from an Australian Mud Dauber Wasp-Associated Fungus, *Talaromyces* sp. (CMB-W045)" by Pabasara Kalansuriya, Michelle Quezada, Breno P. Espósito, and Robert J. Capon. The article is accompanied by a chemical structure diagram of N⁶-hydroxy-L-ornithine and N⁶-anhydromevalonic acid, and a chromatogram showing peaks labeled 1, 2, 3, 4/5, 6, and 8.

On the right side of the interface, there is a "Sign Up for Email" section with a "Get e-Alerts" button. Below this is a "c&en" logo and a news snippet titled "White House attempts to clarify, but not change, genetic engineering regulations". At the bottom, there are navigation links for "Publications A-Z", "CAS Subjects", and "Cover Gallery".

IP范围内通过图书馆资源平台找到外文数据库中的ACS数据库

平台界面

导航栏
检索栏

OA 部分：
Editors' Choice
各刊精选文章

ACS所有期刊
包括新刊、过刊

The screenshot shows the ACS Publications website. At the top, there are navigation links for 'Log In', 'Register', 'ACS', 'ACS Publications', 'C&EN', and 'CAS'. Below this is a search bar with 'Search', 'Citation', 'Subject', and 'Advanced Search' buttons. The main header features the ACS Publications logo and the tagline 'Most Trusted. Most Cited. Most Read.'. A secondary navigation bar includes 'Home', 'Authors & Reviewers', 'Librarians & Account Managers', 'ACS Members', 'Alerts', 'About Us', and 'ACS & Open Access'. The main content area is divided into several sections: 1. 'ACS Editors' Choice' featuring a featured article with a chemical structure of N⁶-hydroxy-L-ornithine and a chromatogram with peaks labeled 1, 6, 8, and 4/5. 2. 'Sign Up for Email' with a 'Get e-Alerts' button. 3. 'c&en' section with news items: 'White House attempts to clarify, but not change, genetic engineering regulations' and 'Aptamer-based sensors could measure drug levels in real time'. 4. 'Publications A-Z' section with tabs for 'CAS Subjects' and 'Cover Gallery', listing journals under 'A' (Accounts of Chemical Research, ACS Applied Materials & Interfaces, ACS Biomaterials Science & Engineering, ACS Catalysis) and 'I' (Industrial & Engineering Chemistry, Industrial & Engineering Chemistry Research, Inorganic Chemistry).

C&EN
化学与工程新闻

导航栏和检索栏

注册与登录

期刊

电子图书

C&EN

Log In

Register

ACS

ACS Publications

C&EN

CAS

ACS Journals

ACS eBooks

C&EN Global Enterprise



ACS Publications
Most Trusted. Most Cited. Most Read.

检索栏

Search

Citation

Subject

Advanced Search

Enter search text / DOI

Anywhere

Search



Authors & Reviewers

Librarians & Account Managers

ACS Members

Alerts

About Us

ACS & Open Access

CAS学科检索

高级检索

ACS 投稿平台
期刊投稿指南

馆员登陆后可管理
IP和使用统计

OA栏目内容
与OA政策

期刊的主页面



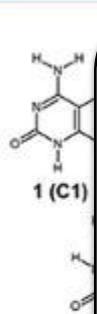
浏览期刊的卷期

Search Citation Subject **Advanced Search**

Enter search text / DOI Anywhere Search

J. Am. Chem. Soc. All Publications/Website

[Browse the Journal](#)
[Articles ASAP](#)
[Current Issue](#)
[Submission & Review](#)
[Open Access](#)
[About the Journal](#)



1 (C1)

Articles ASAP >> 在纸本期刊出版前看到当月最新文章，已经过技术编排

Just Accepted >> 该刊最新收录的文章，经过同行审阅，未交付技术编排

Most Read >> 被访问最多的文章

ACS Editors' Choice >> 期刊编辑为读者挑选的文章，可免费获取



Editor-in-Chief:
Peter Stang

Ed
Re
Au

期刊最新 **IF**
被引用量
发表文章量

Total Citations 504,778	Impact Factor 13.038	Articles Published 2,379
-----------------------------------	--------------------------------	------------------------------------

2015 Journal Citation Reports® by Thomson
ADVERTISEMENT Reuters, 2016



Honeywell

Free shipping
on all orders placed through
December 31, 2016.*

DISCOVER MORE

[Articles ASAP](#)
[Just Accepted](#)
[Current Issue](#)
[Most Read](#)
[Virtual Issues](#)

[ACS Editors' Choice](#)

Articles ASAP (As Soon As Publishable)
ASAP articles are edited and published online ahead of issue. See all ASAP articles.

Asymmetric Synthesis of Rauhut-Currier type Products by a Regioselective Mukaiyama Reaction under Bifunctional Catalysis

Abstract | Supporting Info

ACS ActiveView PDF

期刊的卷期列表

J | A | C | S

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

Search Citation Subject

Advanced Search

Enter search text / DOI

Anywhere

Search

 J. Am. Chem. Soc. All Publications/Website

Browse the Journal

Articles ASAP

Current Issue

Submission & Review

Open Access

About the Journal

List of Issues

Just Accepted Manuscripts
Articles ASAP (As Soon As Possible)

2016: Volume 138

2015: Volume 137

2014: Volume 136

2013: Volume 135

2012: Volume 134

2011: Volume 133

2010: Volume 132

2009: Volume 131

2008: Volume 130

2007: Volume 129

2006: Volume 128

2005: Volume 127

ADVERTISEMENT

HoneywellDiscover the
perfect formula

BUY NOW

窗口可直接选择
出版年份和卷期

Select Decade

Select Volume

Select Issue

Go

期刊文章的体裁，标题，作者，卷期

J | A | C | S
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

期刊名
JACS

Search Citation Subject **Advanced Search**

Enter search text / DOI Anywhere Search

J. Am. Chem. Soc. All Publications/Website

[Home](#)
[Browse the Journal](#)
[Articles ASAP](#)
[Current Issue](#)
[Submission & Review](#)
[Open Access](#)
[About the Journal](#)

Article

文章体裁

标题

[< Previous Article](#)
[Next Article >](#)
[Table of Contents](#)

Paramagnetic Palladacycles with Pd^{III} Centers Are Highly Active Catalysts for Asymmetric Aza-Claisen Rearrangements

作者和机构

Simon H. Eitel[†], Matthias Bauer*[‡], David Schweinfurth[§], Naina Gebel[§], Hans-Jörg Krüger*[¶], Wolfgang Frey[†], and René Peters*[†]

[†] Institut für Organische Chemie, Universität Stuttgart, Pfaffenwaldring 55, 70569 Stuttgart, Germany

[‡] Fachbereich Chemie, Technische Universität Kaiserslautern, Erwin-Schrödinger Straße Gebäude 54/684, 67663 Kaiserslautern, Germany

[§] Institut für Anorganische Chemie, Universität Stuttgart, Pfaffenwaldring 55, 70569 Stuttgart, Germany

[¶] Fachbereich Chemie, Technische Universität Kaiserslautern, Erwin-Schrödinger Straße Gebäude 54/655, 67663 Kaiserslautern, Germany

J. Am. Chem. Soc., **2012**, 134 (10), pp 4683–4693

DOI: 10.1021/ja2098222

Publication Date (Web): February 9, 2012

Copyright © 2012 American Chemical Society

全文数据库
下载PDF

年份 卷期 页数
DOI号 出版日期

[†] Author Present Address

Institut für Anorganische Chemie, Freie Universität Berlin, Germany.



Article Options

ACS ActiveView PDF
Hi-Res Print, Annotate, Reference QuickView

Abstract

Supporting Info

Figures

References

Citing Articles

PDF (1616 KB)

PDF w/ Links (701 KB)

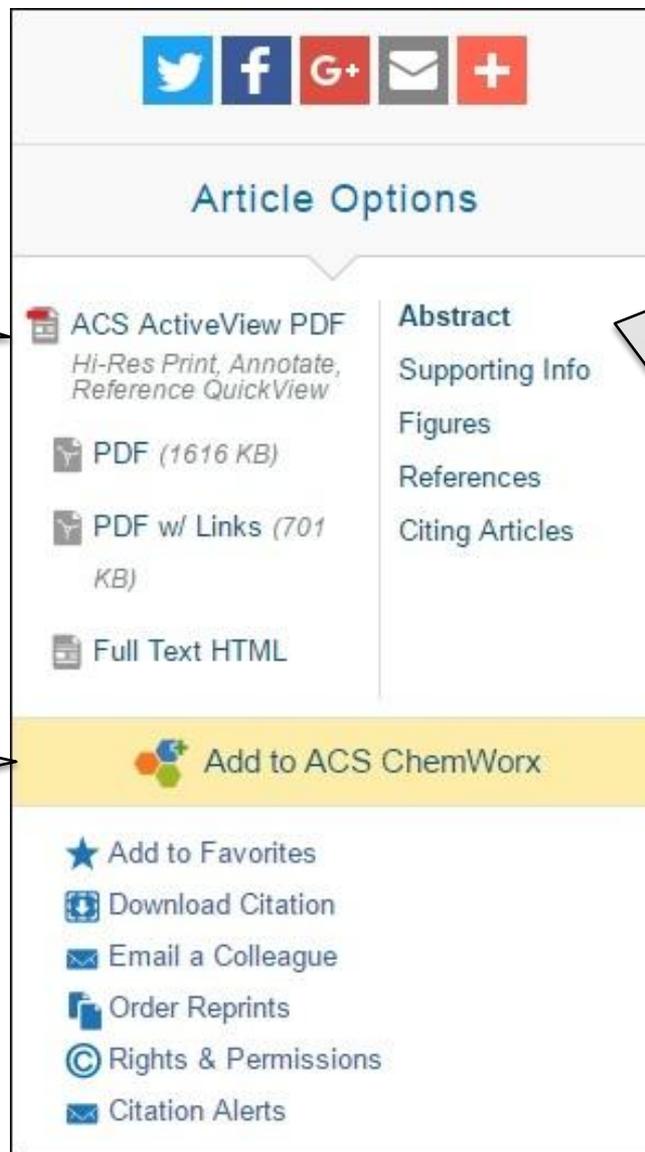
Full Text HTML

Add to ACS ChemWorx

期刊文章的可下载内容 Article Options

四种全文下载方式

ACS ChemWorx
引文管理工具



The screenshot shows the 'Article Options' menu for a journal article. At the top, there are social media sharing icons for Twitter, Facebook, Google+, Email, and a plus sign. Below this is the title 'Article Options'. The main content is divided into two columns. The left column lists four download options: 'ACS ActiveView PDF' (with subtext 'Hi-Res Print, Annotate, Reference QuickView'), 'PDF (1616 KB)', 'PDF w/ Links (701 KB)', and 'Full Text HTML'. The right column lists article components: 'Abstract', 'Supporting Info', 'Figures', 'References', and 'Citing Articles'. At the bottom, there is a yellow bar with the 'Add to ACS ChemWorx' button, followed by a list of utility options: 'Add to Favorites', 'Download Citation', 'Email a Colleague', 'Order Reprints', 'Rights & Permissions', and 'Citation Alerts'.

✚ 文摘 Abstract

✚ 帮助信息
Supporting
Information

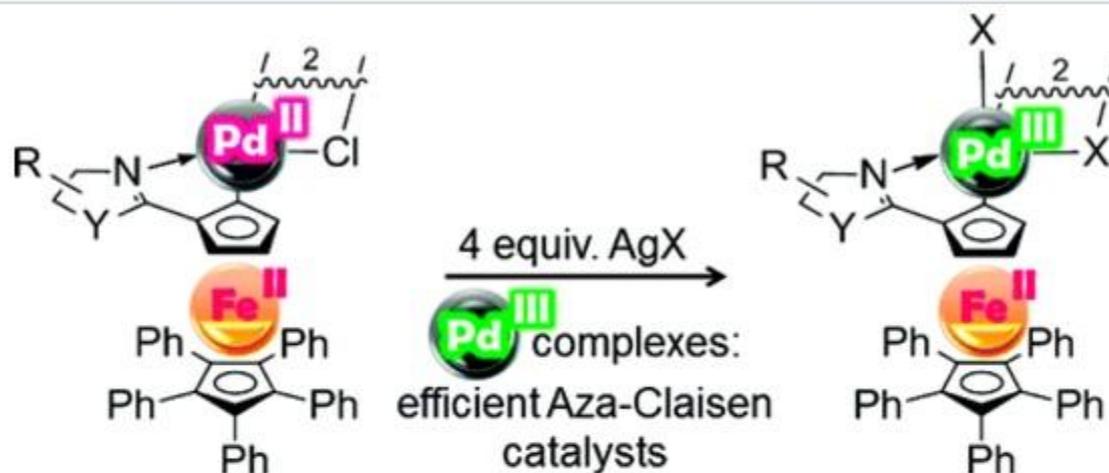
✚ 图片 Figures

✚ 参考文献
References

✚ 施引文献
Citing Articles

期刊文章的 Abstract

Abstract



A combination of spectroscopic and electrochemical methods—XANES, EXAFS, X-ray, ^1H NMR, EPR, Mössbauer, and cyclic voltammetry—demonstrate that the most efficient Pd catalysts for the asymmetric rearrangement of allylic trifluoroacetimidates unexpectedly possess in the activated oxidized form a Pd^{III} center bound to a ferrocene core which remains unchanged (Fe^{II}) during the oxidative activation. These are the first recognized Pd^{III} complexes acting as enantioselective catalysts.

View: [ACS ActiveView PDF](#) | [PDF](#) | [PDF w/ Links](#) | [Full Text HTML](#)

期刊文章的 SI , Figures , References

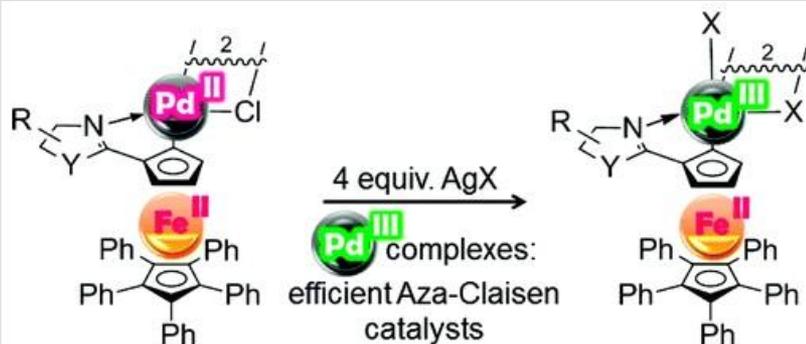
Supporting Information

Material, analytical Methods,
general Experimental, Synthetic, spectral Information,
extra Information for optimization of reaction conditions ...

Figures

提供 Figure, Scheme 的下载

Figure 1 of 20



view hi-res image

download to MS PowerPoint

References

提供 Reference QuickView

Reference QuickView Powered By SciFinder®

1a. Bimetallic Pd(III) complexes in palladium-catalysed

Powers, David C.; Ritter, Tobias

Nature Chemistry (2009), 1 (4), 302-309, S302/1-S302/127 CODEN: NC

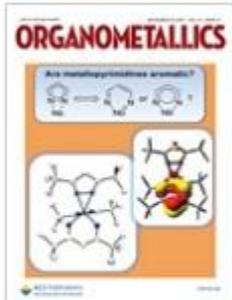
Palladium is a common transition metal for catalysis, and the fundamental role of Pd(II) in catalysis has been well established. The potential role of Pd(III) in catalysis has not been investigated previously. In this article we present the formation of carbon-heteroatom bonds via the involvement of two palladium atoms of the bimetallic core during both the oxidative and reductive steps of the catalytic cycle. This mechanistic insight provides an opportunity to explore rationally the potential of Pd(III) in catalysis.

>> [More from SciFinder®](#)

期刊文章的 Citing Articles

施引文献 Citing Articles

Citing Articles
Related Content



Asymmetric Synthesis of Heterobimetallic Planar Chiral Ferrocene Pallada-/Platinacycles and Their Application to Enantioselective Aza-Claisen Rearrangements

Marcel Weiss, Wolfgang Frey, and René Peters

Organometallics **2012** 31 (17), 6365-6372

[Abstract](#) | [Full Text HTML](#) | [PDF](#) | [PDF w/ Links](#)

站内施引文献：
 点击PDF/HTML全文

站外施引文献：
 点击站外文献链接

Electrochemical studies and potential anticancer activity in ferrocene derivatives

Sara Realista, Susana Quintal, Paulo N. Martinho, Ana I. Melato, Adrià Gil, Teresa Esteves, Maria de Deus Carvalho, Liliana P. Ferreira, Pedro D. Vaz, Maria José Calhorda

Journal of Coordination Chemistry **2017** 70 (2), 314-327

期刊文章的 Metrics

被访问次数

Metrics

Article Views: 2,717 Times

Received 19 October 2011
Published online 9 February 2012
Published in print 14 March 2012

[Learn more about these metrics](#)

+  More Article Metrics



SCIFINDER[®]
A CAS SOLUTION

Sign in

Retrieve Detailed Record of this Article

Retrieve Substances Indexed for this Article

Retrieve Reactions Indexed for this Article

Retrieve All References Cited for this Article

Retrieve All References Citing this Article

Explore by:

- Author of this Article
- Any Author
- Research Topic

Eitel, Simon H. ▼

Search

投稿时间

出版时间

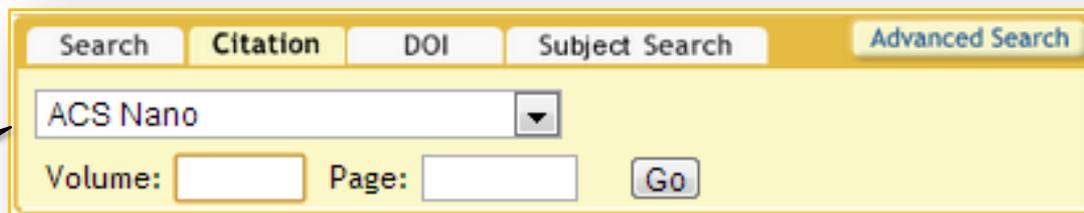
链接到
SciFinder

本文其他作者的
发文情况

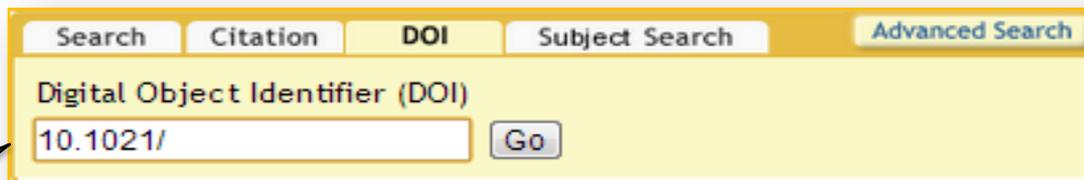
检索栏功能



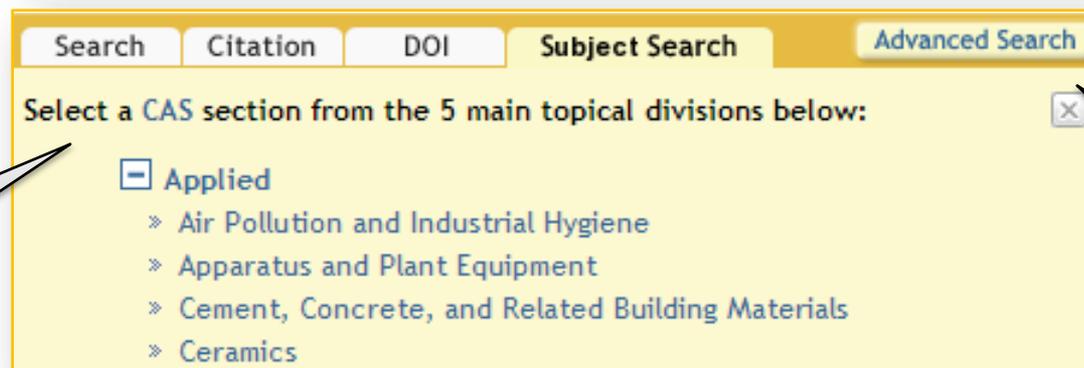
输入**关键词**
选择检索范围



选择**期刊名称**，
输入**年卷**，**页码**



通过**DOI** 编号
快速找到文章



按**CAS**学科分类

高级检索

关键词检索 和 检索结果统计

Search
Citation
Subject
Advanced Search

Anywhere ▾
Anywhere
Title
Author
Abstract

Search Results		MANUSCRIPT TYPE
Results: 1 – 20 of 3172		Research Article 2253
		Rapid Communication 418
		Review Article 114
		Unknown Type 103
		Front Matter 100
		MORE (12) ▾
CONTENT TYPE		SUBJECTS
Journal Article 3016	C&EN Article 142	Biochemical Methods 230
Book Chapter 14		Electrochemical, Radiational, And Thermal Energy Technology 225
AUTHOR		Optical, Electron, And Mass Spectroscopy And Other Related Properties 189
Zhao, Dongyuan 146	Zhou, Mingfei 124	Pharmaceuticals 177
Jiang, Ming 78	Yang, Pengyuan 61	Surface Chemistry And Colloids 160
Li, Fuyou 60		MORE (15) ▾
MORE (95) ▾		PUBLICATION DATE
PUBLICATION		Last Year 429
ACS Appl. Mater. Interfaces 249	J. Am. Chem. Soc. 247	Last 6 Months 271
J. Phys. Chem. C 247	Macromolecules 222	Last 3 Months 174
J. Phys. Chem. B 199	MORE (15) ▾	Last Month 66

输入检索**关键词 / DOI**并选择字段检索范围：
全站、标题、作者、文摘

检索结果的页面左侧有相关统计：

- Content Type** >> **资料类型**
- Author** >> **文章作者**
- Publication** >> **所在期刊**
- Manuscript Type** >> **文章体裁**
- Subjects** >> **学科分类**
- Publication Date** >> **发表时间**
(Last Year, Last 6 months, Last 3 months)

高级检索

Advanced Search

Anywhere ▾ Enter search term

Use AND, OR, and NOT to perform a boolean search.

Anywhere ▾ "optical responsive"

Use quotations marks to search for specific phrases.

Author ▾ Yang OR Wang

During author searching, separate each author name with either AND or OR to search on multiple authors at once.

Anywhere ▾ Enter search term

Use a question mark (?) in a search term to replace only one character with a wildcard. Otherwise, use an asterisk (*).

输入连续字段时，
可加**引号**精确检索

使用**逻辑词**
AND, OR, NOT

Content Type

- Search within sources: [Modify Selection](#)
- > All Journals, Books and C&EN Archives
- Search within section: [Modify Selection](#)
- > Search All sections

选择**出版物范围**
或**学科范围**

Access Type

- All Content
- Open Access Content
 -  ACS Author Choice
 -  ACS Editors' Choice

选择**OA内容**

Publication Date

- All dates
- Last:
- Custom range: To:
 - Use Print Publication Date (instead of Web Publication Date)

选择**出版日期**

Ahead of Issue

- Search only Articles ASAP and Just Accepted Manuscripts

C&EN Archives Options

- Include Tables of Contents in search results
- Include full-page advertisements in search results

按CAS的五大学科分类检索：应用化学

Search
Citation
Subject
Advanced Search

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
 - Electrochemical, Radiational, and Thermal Energy Technology
 - Essential Oils and Cosmetics
 - Extractive Metallurgy
 - Ferrous Metals and Alloys
 - Fossil Fuels, Derivatives, and Related Products
 - Industrial Inorganic Chemicals
 - Mineralogical and Geological Chemistry
 - Nonferrous Metals and Alloys
 - Pharmaceutical Analysis
 - Pharmaceuticals
 - Propellants and Explosives
 - Unit Operations and Processes
 - Waste Treatment and Disposal
 - Water
- Biochemistry**
- Macromolecular**
- Organic**
- Physical, Inorganic, and Analytical**

采用美国化学文摘
CAS的学科分类方法

五大类 80小类
 可选择所需学科：

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

按CAS的五大学科分类检索：应用化学

Water

Follow results:  

Results: 1 – 20 of 10863
 Filter(s) Applied:

Water

PUBLICATION

Environ. Sci. Technol.	8615
Anal. Chem.	813
Ind. Eng. Chem. Res.	436
J. Agric. Food Chem.	197
ACS Appl. Mater. Interfaces	155
MORE (15) ▾	

MANUSCRIPT TYPE

Research Article	9824
Review Article	176

AUTHOR

Schwarzenbach, René P	57
Muir, Derek C G	54

Refine Search ^

REFINE SEARCH
SEARCH HISTORY
SAVED SEARCHES

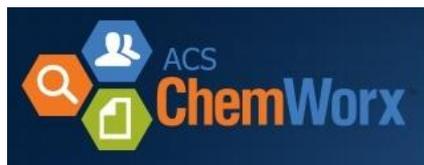
Anywhere ▾	<input type="text" value="Enter search term"/>	<input type="button" value="X"/>
Title ▾	<input type="text" value="Enter search term"/>	<input type="button" value="X"/>
Abstract ▾	<input type="text" value="Enter search term"/>	<input type="button" value="X"/>
Figure/Table Capt ▾	<input type="text" value="Enter search term"/>	<input type="button" value="+"/>

Enable stemming (include root terms)

保存检索结果

进一步精确检索

ACS数据库平台上的科研工具和资讯信息



ACS ChemWorx
集成管理工具



ACS on Campus
高校推广活动



CAS 美国化学文摘社



ACS Axial
出版物博客



ACS InfoCentral
资源信息中心

ACS in the News

ACS 新闻小站



ACS2GO
移动访问工具



Figshare
开放共享平台

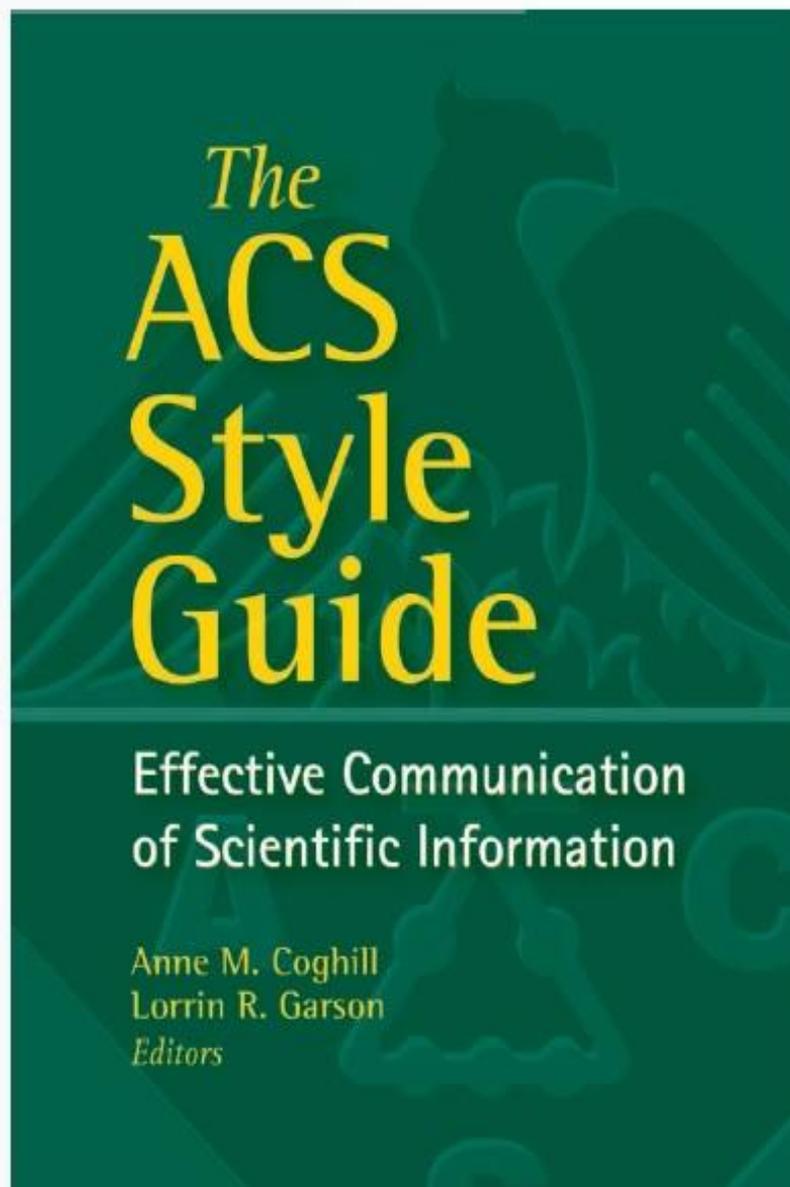
ACS Style Guide

Part 1: Scientific Communication

- > **Chapter 1:** Ethics in Scientific Publication
- > **Chapter 2:** Scientific Papers
- > **Chapter 3:** The Editorial Process
- > **Chapter 4:** Writing Style and Word Usage
- > **Chapter 5:** Electronic Submission of Manuscripts Using Web-Based Systems
- > **Chapter 6:** Peer Review
- > **Chapter 7:** Copyright Basics
- > **Chapter 8:** Markup Languages and the Datument

Part 2: Style Guidelines

- > **Chapter 9:** Grammar, Punctuation, and Spelling
- > **Chapter 10:** Editorial Style
- > **Chapter 11:** Numbers, Mathematics, and Units of Measure
- > **Chapter 12:** Names and Numbers for Chemical Compounds
- > **Chapter 13:** Conventions in Chemistry
- > **Chapter 14:** References
- > **Chapter 15:** Figures
- > **Chapter 16:** Tables
- > **Chapter 17:** Chemical Structures
- > **Chapter 18:** Selected Bibliography



ACS ChemWorx 集成管理工具



Manage Your Research Life

ACS ChemWorx is a collaborative reference manager coupled with timesaving tools and services for authors.

Register Free
(even for non-ACS members)

ACS ChemWorx 概述

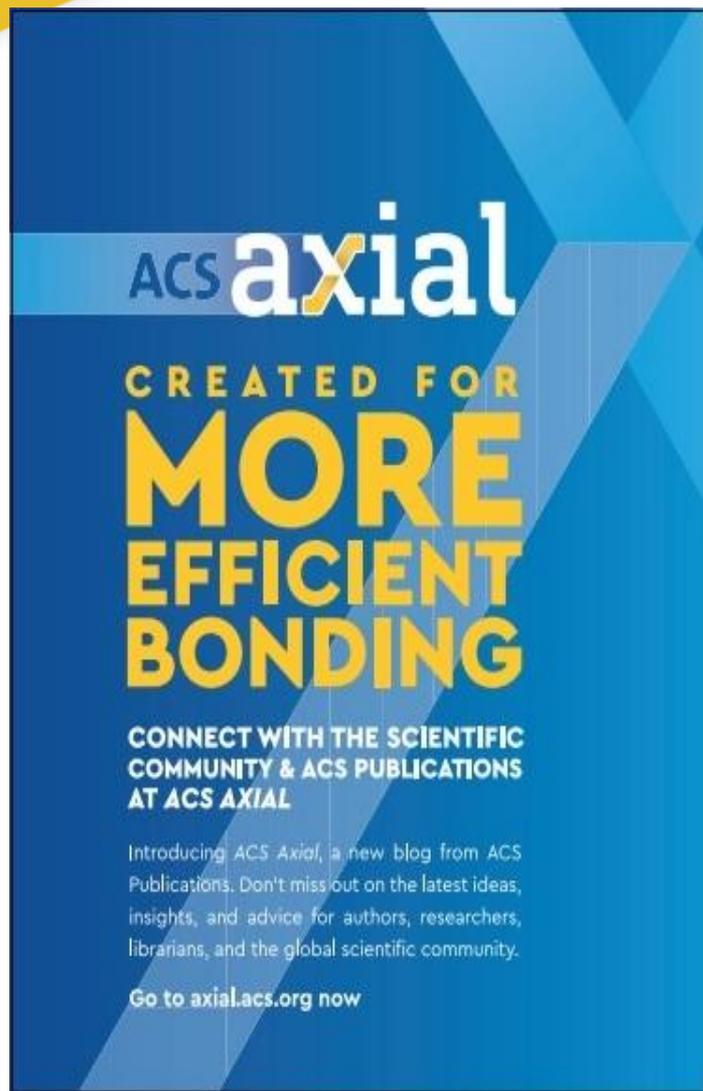
ACS 于 2013 年推出的集成管理工具，帮助用户管理全站检索结果、储存文献资料

- ✦ 大范围搜索参考文献并统一管理
- ✦ 接收期刊和新闻的 RSS Feeds 讯息
- ✦ 作为ACS会员组织的权益
- ✦ 网页版和桌面版同步更新
- ✦ 在合著者、同事之间建立联络网

免费注册ChemWorx账号（等同ACS账号）

<https://hp.acschemworx.acs.org/>

ACS Axial 科学交流的在线播客平台



ACS **axial**

CREATED FOR
**MORE
EFFICIENT
BONDING**

CONNECT WITH THE SCIENTIFIC
COMMUNITY & ACS PUBLICATIONS
AT ACS AXIAL

Introducing ACS Axial, a new blog from ACS Publications. Don't miss out on the latest ideas, insights, and advice for authors, researchers, librarians, and the global scientific community.

Go to axial.acs.org now

ACS **axial**

Ideas, Insights & Advice for
the Scientific Community

提供最新资讯

将您与化学界相连的在线播客平台

- ✦ 展现当前研究亮点的新闻播报
- ✦ 编辑访谈实录，实验室参观录像
- ✦ 编辑对文章投稿的建议和要点
- ✦ 读者可阅读到白皮书，电子书及在线讲座
- ✦ 了解 ACS 出版社的编辑团队和最新获奖者
- ✦ 关注 ACS National Meetings
- ✦ 获得 ACS on Campus 的信息资讯

精彩内容详情请见：<http://axial.acs.org/>

ACS in the News



ACS in the News

- ✚ 新闻中的 ACS 小站，查看最近科技新闻
- ✚ ACS期刊文章成为了哪些报纸、网站科技新闻的素材
- ✚ 可通过期刊、机构、学科主题进行搜索

内容详情请见：[_http://acsinthenews.org/](http://acsinthenews.org/)

Journals

Select Category ▼

Institution

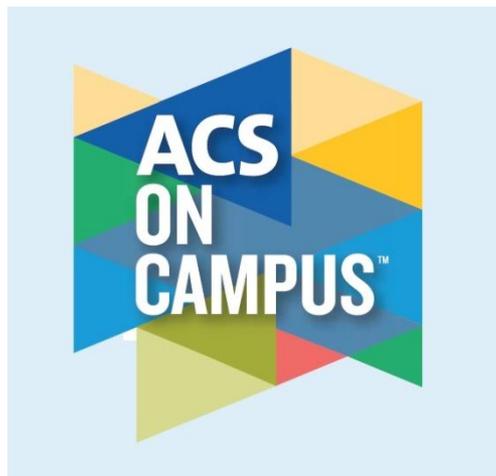
Please Choose ▼

Topics

Select Category ▼

Past News

Select Month ▼



ACS 校园行

- ✚ ACS出版社编辑与高校师生进行讲座交流
- ✚ 化学方面的科研交流、出版信息、工作机会
- ✚ 科研工具的使用技能：Scifinder, ACS Chemworx等
- ✚ 了解就业的变化格局，建立行业伙伴关系

内容详情请见：[_http://acsoncampus.acs.org/](http://acsoncampus.acs.org/)

如何随时随地访问ACS数据库

使用 ACS2GO 移动访问（无需 APP）



ACS2GO 移动访问工具

- ✦ 在移动端打开任意一个网页浏览器
- ✦ 登录 **pubs.acs.org** 进入 **ACS2GO** 界面
(如未能进入, 清除Cookies重试)
- ✦ 在机构IP范围内的电脑端获取 **Pairing Code**
- ✦ 把 **Pairing Code** 输入移动端, 使其与电脑配对
拥有授权IP外的访问权限
- ✦ ACS机构订购用户可在IP范围外使用移动访问
120天无需重复登录

电脑端获取配对码 : <https://pubs.acs.org/action/mobileDevicePairingRequest>

如何随时随地访问ACS数据库

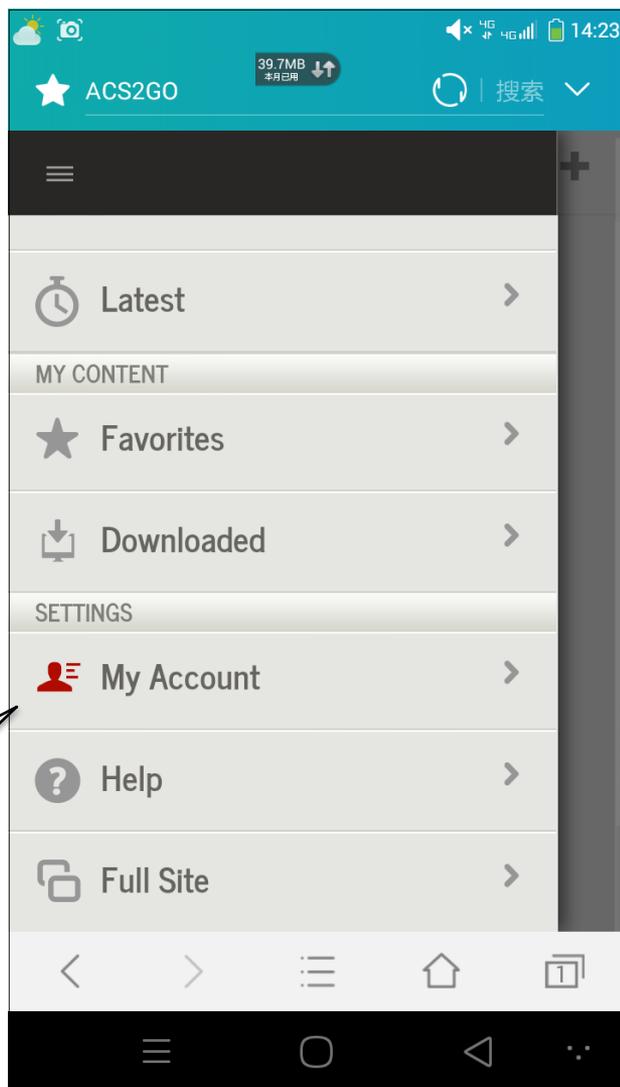


进入 ACS2GO
点击“主按键”



检索，浏览和下载

如何随时随地访问ACS数据库

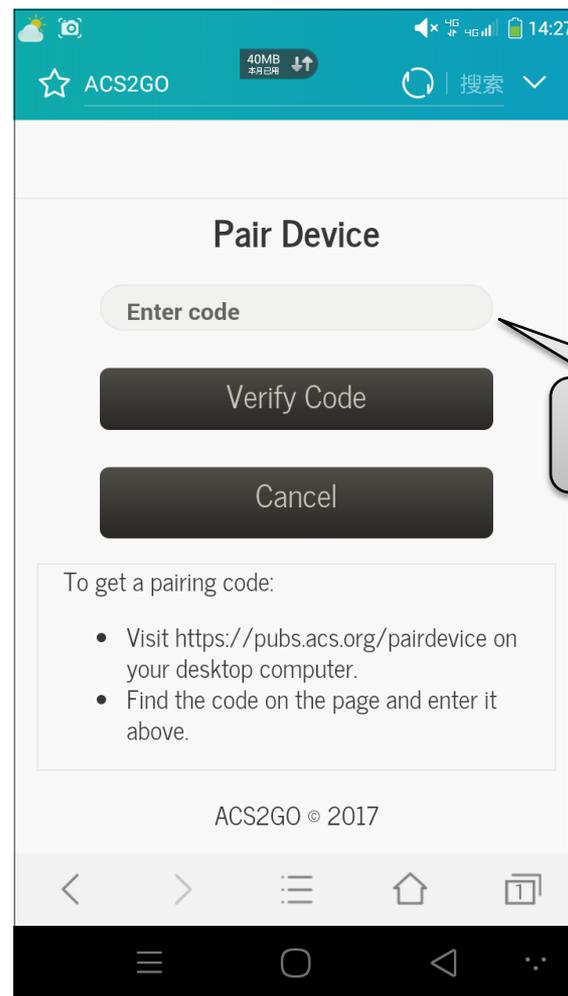
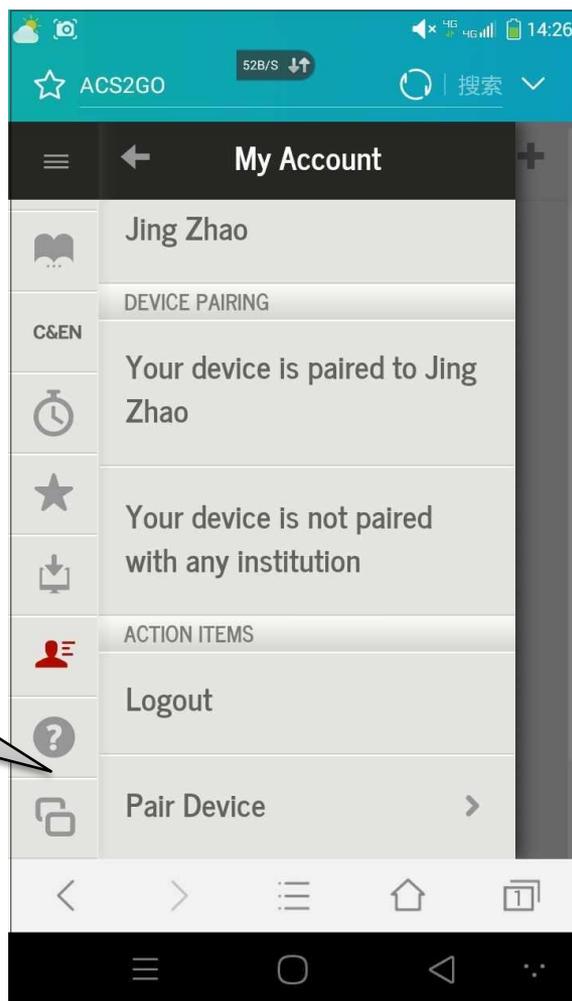


登录
个人账户



点击此处
注册与登录

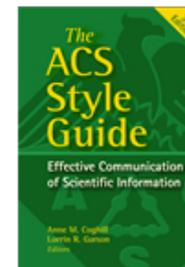
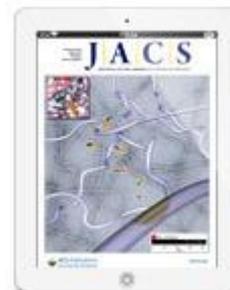
如何随时随地访问ACS数据库



电脑端获取配对码：<https://pubs.acs.org/action/mobileDevicePairingRequest>



ACS
InfoCentral
RESOURCES FOR INSTITUTIONAL
SUBSCRIBERS





通过SciFinder, 用户可以轻松访问CAS数据库, 同时还能:

- 提高工作效率
- 实现更快的突破
- 做出更为明智的决策

借助SciFinder, 您可以轻松获得以下信息:

- 更多化学反应
- 更多物质
- 更多生物医学内容

即刻获得比其他数据库更多的信息



全球知识产权专业人士和专利审查人员均依赖STN满足其科技信息需求, 因为STN提供:

- 独一无二的内容集合
- 无与伦比的检索能力
- 久经考验的可靠性

STN提供信息方面的优势, 使您能够:

- 解决关键业务问题
- 规避遗漏信息带来的风险
- 保护有价值的知识产权

3 ACS期刊投稿



ACS
Author & Reviewer
RESOURCE CENTER

选择所要
投稿的期刊

学术道德
出版政策

如何准备
稿件内容

如何使用
投稿平台

出版前后的
注意事项



ACS Author & Reviewer RESOURCE CENTER

Author Services

Resources & Templates

Submission & Review

ACS & Open Access

Submit Your Research

Give It the Global Impact It Deserves

ACS Publications is dedicated to advancing science and serving the needs of the scientific community. We provide the highest-quality peer review, technical editing, and production services—and no mandatory author charges for your manuscript.

Explore our Resources
& Templates

Read All ACS
Author Benefits

ACS投稿平台和信息: <http://pubs.acs.org/page/4authors/index.html>

ACS期刊投稿流程的步骤

第一步: 选择所要投稿的期刊

期刊的范围 Journal Scope

期刊的投稿指南 Author Guidelines



第二步: 学术道德/出版政策

学术道德指南 Ethical Guidelines

期刊出版协议 Copyright and Permissions

资金提供来源 Funder Reporting Requirement

第三步: 如何准备稿件内容

文件的模板 Document Templates

所接受的软件和TEX/LATEX

书写和语言 Writing Style and Language

投稿信 Cover Letter



投稿的文章架构 Manuscript Components

图表 Graphics

第四步: 如何使用投稿平台

登录 ACS Paragon Plus 投稿平台

在投稿平台里上传投稿

同行评审的过程讲解 Peer Review



第五步: 出版前后的注意事项

Just Accepted Manuscripts

ASAP Publication

校对稿件

是否开放资源共享

出版日期确认

文章的更正

分享您所发表的文章

投稿平台 ACS Paragon Plus

ACS ChemWorx Authoring Services

Present your research ideas at their best.



ACS ChemWorx



Editing



Translation



Formatting



Figure Services

ACS Open Access Programs

Explore the five ACS open access initiatives.



ACS
AuthorChoice



ACS
Author Rewards



ACS
Editors' Choice



ACS
Central Science



ACS
Omega

Log in to the ACS Paragon Plus Portal

Ready to submit your manuscript or review? Log in or register for online submission.

[Submit Your Research](#)

Journal Instructions & Templates

Select the appropriate journal template for submission

Select a Journal 

投稿平台 **ACS Paragon Plus**
可快速免费注册，登录

选择一篇期刊，可找到该期刊的
作者投稿指南 和 **投稿模板**

投稿平台 ACS Paragon Plus

选择投稿的期刊

并按平台提示
上传稿件内容

查阅稿件状态

Personal publishing activity for
Mr. Jing Zhao [Edit Your Account](#) [Log Out](#)

To submit a NEW manuscript: [GO](#)

My Authoring Activity

My Reviewing Assignments

- 0 Invited Manuscripts Awaiting Submission
- 2 [Incomplete Manuscript Submissions](#)
- 0 Unsubmitted Manuscripts
- 0 Submitted to Editorial Office
- 0 Forms Awaiting Completion
- 0 Revisions and Resubmissions Requested by Editorial Office
- 0 Incomplete Revisions and Resubmissions
- 0 Revisions and Resubmissions Received by Editorial Office
- 0 Accepted Manuscripts
- 0 Proof Ready for Review
- 0 Proof Comments Received
- 0 Expired Revisions and Manuscripts No Longer Under Consideration
- 0 Recently Published Articles

ACS投稿内容的详细指导，请见 http://pubs.acs.org/paragonplus/submission/acs_step-by-step_guide_to_manuscript_submission.pdf

Online投稿流程简介

Step 1: Type, Title, & Abstract

Authors are asked to review the [Information for Authors](#), and to adhere to these guidelines when submitting manuscripts to be published as **Just Accepted** manuscripts. Please review these submission requirements before beginning the submission process: [Requirements for Just Accepted Manuscripts](#)

In publishing only original research, ACS is committed to deterring plagiarism, including self-plagiarism. ACS Publications uses CrossCheck's iThenticate software to screen submitted manuscripts for similarity to published material. Note that your manuscript may be screened during the submission process. [Learn more.](#)



* = Required Fields

Submission

Step 1: Type, Title, & Abstract >

Step 1 :

Type	文章类型
Title	标题
Abstract	文摘

* Type:

CHOICE	TYPE
<input type="radio"/>	Additions and Corrections
<input checked="" type="radio"/>	Article
<input type="radio"/>	Brief Communication
<input type="radio"/>	Featured Article
<input type="radio"/>	JOCSynopsis
<input type="radio"/>	Note
<input type="radio"/>	Perspective

Online投稿流程简介

Submission

✓ Step 1: Type, Title, & Abstract >

Step 2: Authors & Institutions >

Step 3: Reviewers & Editors >

Step 4: Details & Comments >

Step 5: File Upload >

Step 6: Review & Submit >

Step 2 : Authors

通信作者
联合作者

机构，地址，联系方式

Step 2: Authors & Institutions

Co-Authors: You must provide contact information for **all** co-authors. Then use the Order dropdown list beside each author's name to match the order in which they are listed on the manuscript.

Submitting Agent: If you are submitting this manuscript for someone else, you must enter the Contact Author's information.

* = Required Fields

Submitting Agent

* Agent Question

- Author** I, Mr. Jing Zhao, am submitting this manuscript on behalf of myself and my co-authors.
- Submitting Agent** I, Mr. Jing Zhao, am not an author on this manuscript. I am submitting this manuscript on behalf of an author.

Authors

* Selected Authors

	ORDER	ACTIONS	AUTHOR	INSTITUTION
↑ Drag	1	Select...	Mr. Jing Zhao (Corresponding Author) rudy@igroup.com.cn	1. iGroup shanghai china Xie Tu Road, No.2899 room B-601 Shanghai, CN 200030

Add Author

Find using Author's email address

AuthorsEmail@example.com

< Previous Step

Save

Save & Continue >

Online投稿流程简介

Submission

- ✓ Step 1: Type, Title, & Abstract >
- ✓ Step 2: Authors & Institutions >
- Step 3: Reviewers & Editors >
- Step 4: Details & Comments >
- Step 5: File Upload >
- Step 6: Review & Submit >

Step 3: Reviewers & Editors

You must suggest at least **5** reviewers before completing the submission of your manuscript.

* = Required Fields

* Preferred Reviewers

RECOMMENDED: 1 OUT OF 5 MIN

ACTIONS	PREFERENCE	REVIEWER	INSTITUTION
<input type="text" value="Select..."/>	Preferred Reason: XXXXXX	Mustermann Chemistry Mustermann.Chemistry@igroup.com.cn	Institution of Organic Chemistry University of XXX 123-456-789

Add Reviewer

< Previous Step

Save

Save & Continue >

Step 3 : Reviewers & Editors

填写您想选择的
投稿评审人和编辑

Online投稿流程简介

Submission

- ✓ Step 1: Type, Title, & Abstract >
- ✓ Step 2: Authors & Institutions >
- ✓ Step 3: Reviewers & Editors >
- Step 4: Details & Comments >**
- Step 5: File Upload >
- Step 6: Review & Submit >

Step 4: Details & Comments

Enter your cover letter text into the "Cover Letter" box below **OR** attach a file containing your cover letter. Answer any remaining questions appropriately.

* = Required Fields

*** Cover Letter**

Write Cover Letter

Preview Ω Special Characters

0 OUT OF 32768 CHARACTERS

Upload Cover Letter

1. Select File 2. Attach File

Funding

Is there funding to report for this submission?

Yes No

Funders

ACTIONS	FUNDER	GRANT / AWARD NUMBER
No Funders Entered		
<input type="button" value="Add Funder"/>		

Conflict of Interest

Do you have any competing and/or relevant financial interest(s) to disclose? (Please see the [ACS Ethical Guidelines.](#))

Yes

No

Step 4 :

Cover Letter

Funding

Conflict of Interest

.....

Online投稿流程简介

Step 5: File Upload

Please upload all required files for your Manuscript Submission, plus Supporting Information and Review-Only material.

Required Documents for Manuscript Submission

- **Manuscript File and All Graphics** [See [Acceptable Software, Choosing File Designations, TeX/LaTeX](#)]
- **Compound Characterization Checklist** [[Details](#)]
Note: A Compound Characterization Checklist Form is required for manuscripts reporting the characterization of compounds or the results of theoretical calculations.
- **Electronic or PDF Journal Publishing Agreement** [See [Instructions & Forms](#)]

Requirements for Revised Manuscripts

If you are uploading a new file, first delete the original version and then upload the revision.

* = Required Fields

Submission

- ✓ Step 1: Type, Title, & Abstract >
- ✓ Step 2: Authors & Institutions >
- ✓ Step 3: Reviewers & Editors >
- ✓ Step 4: Details & Comments >
- Step 5: File Upload** >
- Step 6: Review & Submit >

Step 5 : 稿件上传

投稿文章 , 图片(包括Tables, Figures...)
Supporting Information , Checklist...

注意上传文件的格式
详见各期刊的作者投稿指南

Online投稿流程简介

Step 6: Review & Submit

Review the information below for correctness and make changes as needed. **The manuscript PDF proof at the bottom of this page must be reviewed before completing your submission. Please click 'SUBMIT' to complete your submission.**

* = Required Fields

* Verify Step Information

Submission

✓ Step 1: Type, Title, & Abstract >

✓ Step 2: Authors & Institutions >

✓ Step 3: Reviewers & Editors >

✓ Step 4: Details & Comments >

✓ Step 5: File Upload >

Step 6: Review & Submit >

Step 6 : 校对并确认提交

查看校对前面的步骤

确认填写正确无误

稿件的通信作者作为联系人

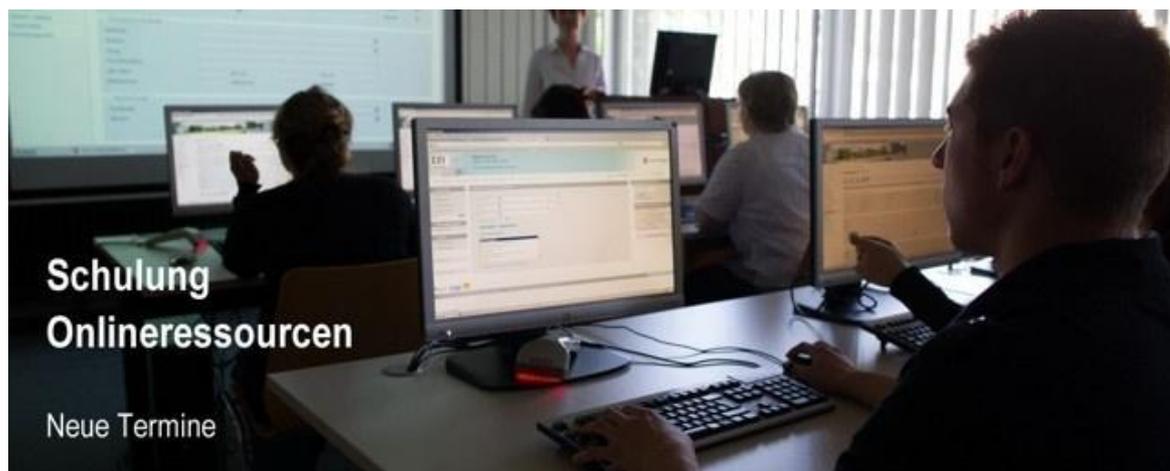
留意进度，及时回应

4 化学类文献资料检索



从前

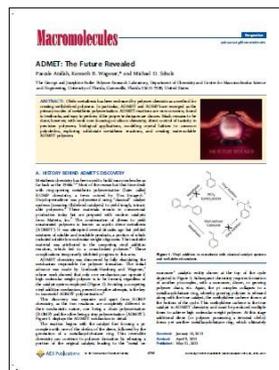
现在



查找综述类文献了解研究课题领域

参考文献（往旧的查）

*Cited
References*

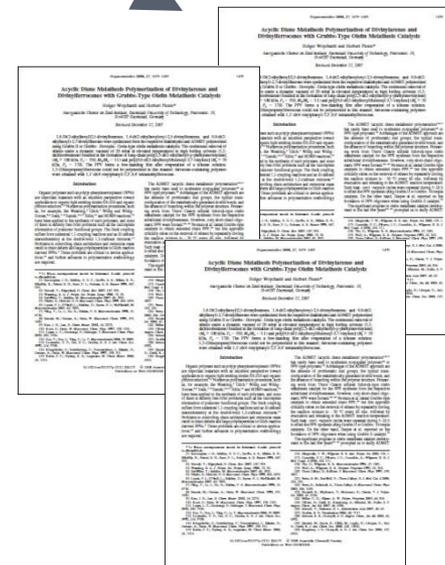
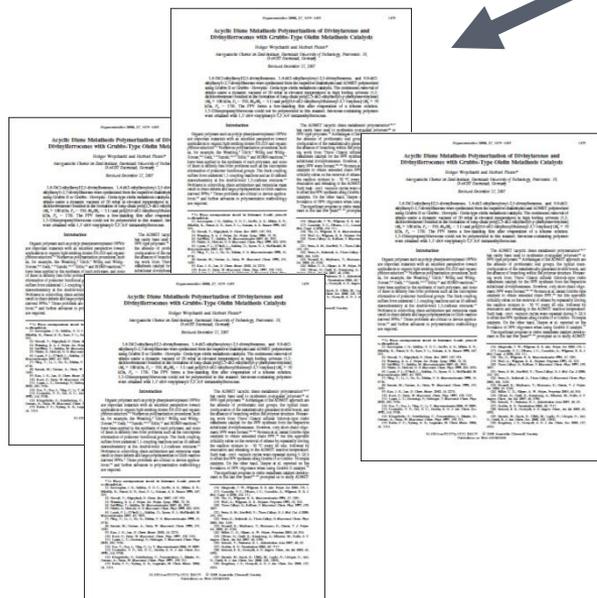


施引文献（往新的查）

*Citing
Articles*

具代表性的
综述类文献

同样可能具有相关性



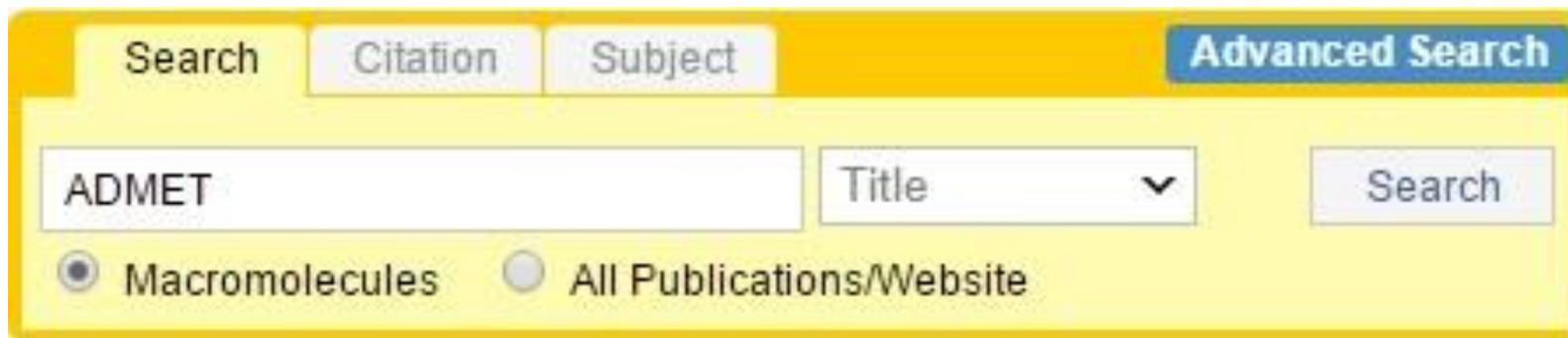
查找综述类文献了解研究课题领域

文献资料调研：search Review Article

- ✦ 从研究领域的综述类文献开始
- ✦ 文献作者已对这一领域进行了系统性的全面客观评述
- ✦ 总结和提供了该领域的当前研究进展，并形成新的讨论
- ✦ 站在他人的研究基础上，作为自身的新起点
- ✦ 引用了重要的参考文献，比搜索引擎更有效
- ✦ 通过文章的施引文献，了解新的关注，新的进展和新的研究成果

检索实例 (ACS站内检索)

主题检索： 高分子化学 ADMET Polymerisation (单刊检索)



The screenshot shows the ACS search interface with the following details:

- Navigation tabs: Search, Citation, Subject, **Advanced Search**
- Search input field: ADMET
- Search area dropdown: Title
- Search button: Search
- Journal selection: Macromolecules, All Publications/Website

检索期刊: **Macromolecules**
关键词: **ADMET**
检索区域: **Title**

检索实例 (ACS站内检索)

Search Results

Results: 1 – 20 of 41
 Filter(s) Applied:
 Macromolecules x

Follow results:  

AUTHOR

Wagener, K B 15

Wagener, Kenneth B 11

Brzezinska, K 3

Du, Fu-Sheng 3

Li, Zi-Chen 3

MORE (94) v

SORT: Relevance Date

PER PAGE: 20 50 100

1 2 3 Next >

Select All View Abstracts Download Citation Add to A

ADMET: The Future Revealed

Pascale Atallah, Kenneth B. Wagener, and Michael D. Schulz
Macromolecules, 2013, 46 (12), pp 4735-4741
 Publication Date (Web): May 21, 2013 (Perspective)
 DOI: 10.1021/ma400067b
 Olefin metathesis has been embraced by polymer chemists as a method for creating well-defined polymers. In particular, ADMET and ROMP have emerged as the primary modes of metathesis polymerization. ADMET reactions are now common, found in textbooks, and ...

ACS ActiveView PDF
 Hi-Res Print, Annotate, Reference QuickView

PDF[3639K]

PDF w/ Links[366K]

Full Text HTML

MANUSCRIPT TYPE

Research Article 39

Rapid Communication 1

Review Article 1

SUBJECTS

Chemistry Of Synthetic High Polymers 26

Physical Properties Of Synthetic High Polymers 2

Plastics Manufacture And Processing 1

41 篇检索结果

关注发文最多的作者

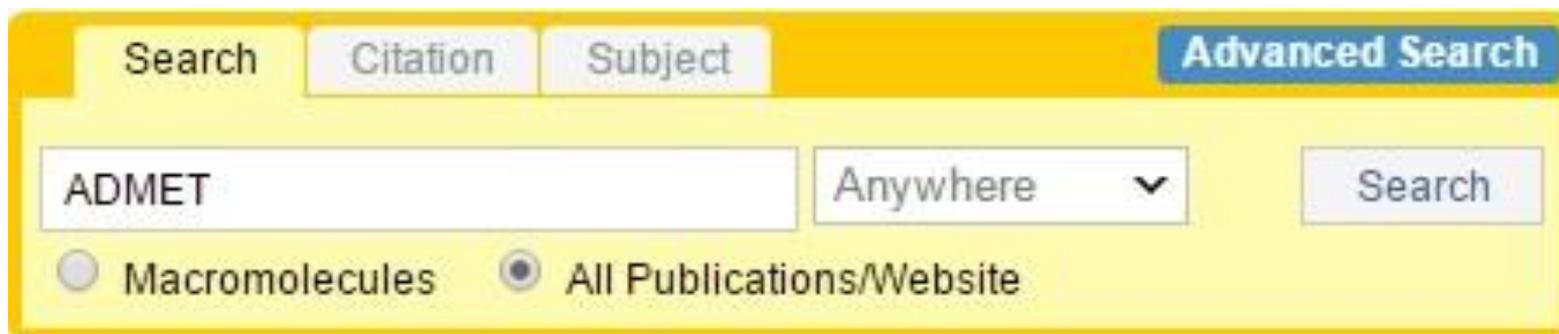
关注文章体裁

默认按关联性和重要性排列

检索排位中的第一篇 Review 综述类文献

检索实例（ACS站内检索）

主题检索：高分子化学 ADMET Polymerisation（全站检索）



The screenshot shows the ACS search interface with the following details:

- Navigation tabs: Search, Citation, Subject, **Advanced Search** (highlighted)
- Search input field: ADMET
- Search scope dropdown: Anywhere (with a downward arrow)
- Search button: Search
- Radio buttons for search scope:
 - Macromolecules
 - All Publications/Website

检索期刊：**ACS**所有期刊
关键词：**ADMET**
检索区域：**Anywhere**

检索实例 (ACS站内检索)

Search Results

Results: 1 - 20 of 1082

Follow results: [Q+](#) [RSS](#)

ADVERTISEMENT

CONTENT TYPE

Journal Article	983
C&EN Archives Article	69
Book Chapter	25

AUTHOR

Wagener, Kenneth B	72
Grubbs, Robert H	29
Wagener, K B	22
Kozikowski, Alan P	14
Hillmyer, Marc A	12

MORE (95) ▾

PUBLICATION

J. Med. Chem.	216
Macromolecules	196
J. Chem. Inf. Model.	165
Chem. Eng. News	69
J. Am. Chem. Soc.	66

MORE (15) ▾

MANUSCRIPT TYPE

SORT: Relevance Date

PER PAGE: 20 50 100

1 2 3 4 5 6 7 8 ... 55 Next >

Select All
 View Abstracts
 Download Citation
 Add to ACS

ADMET: The Future Revealed

Pascale Atallah, Kenneth B. Wagener, and Michael D. Schulz

Macromolecules, 2013, 46 (12), pp 4735-4741

Publication Date (Web): May 21, 2013 (Perspective)

DOI: 10.1021/ma400067b

Olefin metathesis has been embraced by polymer chemists as a method for creating well-defined polymers. In particular, ADMET and ROMP have emerged as the primary modes of metathesis polymerization. ADMET reactions are now common, found in textbooks, and ...

ACS ActiveView PDF
Hi-Res Print, Annotate, Reference QuickView

PDF[3639K]

PDF w/ Links[366K]

Full Text HTML

Add to ACS ChemWorx

1082 篇检索结果

发文最多的作者

期刊的分布

检索排位中的第一篇
Review 综述类文献

综述类文献 Review Article 的内容

综述类文献 Review Article

1 研究领域的概念和重要原理

2 研究领域的历史和最新进展

3 本领域中的重要研究的介绍

4 该研究在各个应用领域的进展

5 作者对研究课题的总结与展望

Macromolecules Perspective
pubs.acs.org/journal/maac

ADMET: The Future Revealed
 Farida Atalik, Kenneth S. Wagener,* and Michael D. Schick

The George and Jeanette Baker Wilson Research Laboratory, Department of Chemistry and Center for Macromolecular Science and Engineering, University of Florida, Gainesville, Florida 32611-7020, United States

ABSTRACT: Chain extendable has been made more fully polystyrene chains as a method for creating functional polystyrene. In particular, ADMET and SCMP have emerged as the primary means of creating the polystyrene chains. ADMET reactions are more common, based on kinetics, and may produce a full range of chain lengths. While common to be done, however, with much more limiting on chain chemistry, about control of flexibility in polystyrene polystyrene, biological applications, modeling crystal lattices, to common polystyrene, modeling solubility materials reactions, and creating soluble ADMET polystyrene.

A. HISTORY BEHIND ADMET'S DISCOVERY

Macromolecular chemistry has been used to build macromolecules as far back as the 19thth century. Most of the focus has been on the study of ring-opening reactions polymerization (also called SCMP chemistry, a term coined by Tim Swager).¹ Diethyl azodicarboxylate was first proposed as a "classical" catalyst system (forming a diethyl azodicarboxylate to yield highly branched alicyclic polymers).² These materials remain a commercial production today but are prepared with modern catalysts from diethyl azodicarboxylate. The introduction of diethyl azodicarboxylate to form a soluble linear macromolecule (ADMET), it was able to yield linear macromolecules but yielded mixtures of soluble and insoluble products, a problem of which molecular weight and molecular weight alignment. The molecular weight was attributed to the competing vinyl addition reactions, which led to a crosslinked polymer.³ These complications impeded by inhibited progress in this area.

ADMET chemistry was discovered by fully elucidating the mechanism responsible for polymer formation. The initial advance was made by Frederick Hamberg and "Wagner,"⁴ whose work showed that only one mechanism can create a high molecular weight polymer is to be formed regardless of the catalyst system employed (Figure 1). Avoiding a competing vinyl addition mechanism, proved to be an attempt, is the key to successful ADMET polymerization.⁵

This discovery was separate and apart from SCMP chemistry, as the two reactions are completely different in their molecular nature, one being a chain polymerization (SCMP) and the other being a step polymerization (ADMET). Figure 1 depicts the ADMET mechanism in detail.

The reaction begins with the catalyst that forms a pi-complex with one of the alkenes of the diene, followed by the generation of a zwitterionic intermediate. This zwitterionic intermediate can continue to polymerize further by adding a portion of the original catalyst, leading to the "total on-

macromolecule" soluble polystyrene at the top of the cycle depicted in Figure 1. Subsequent chemistry requires formation of another pi-complex, with a monomer, diene, or growing polymer chain, etc. Again, the pi-complex collapses to a zwitterionic intermediate ring, allowing growing polymer to be added along with the next catalyst. The zwitterionic surface is now at the bottom of the cycle. This zwitterionic surface is the true catalyst in ADMET chemistry and must be protected multiple times to allow high molecular weight polymer. At this stage additional diene (or polymer possessing a terminal olefin) forms yet another zwitterionic surface, which ultimately

Figure 1. Vinyl addition to a diene with classical catalyst systems and total diene of catalyst.

Received: January 10, 2013
 Revised: April 5, 2013
 Published: May 11, 2013

ACS Publications | www.acs.org/journal/maac

ACS数据库出版物在中国
由iGroup公司独家代理
<http://www.igroup.com.cn>

主讲人: ACS培训专员 赵璟
毕业于德国斯图加特大学化学系
Email: rudy@igroup.com.cn

ACS数据库培训交流QQ群
QQ群号: 487350036
欢迎加入ACS的网络培训课

更多学术信息检索
论文写作与投稿答疑
请关注微信公众号
学术猫



Thanks for your listening

iGroup服务

iGroup信息服务



“iGroup信息服务” 微信公众号是国内最受欢迎的学术图书馆员职业培训和互动交流平台之一。

学术猫



“学术猫” 微信公众平台专注于为学术研究者提供信息检索、讲座培训以及论文写作投稿与就业方面的知识经验。