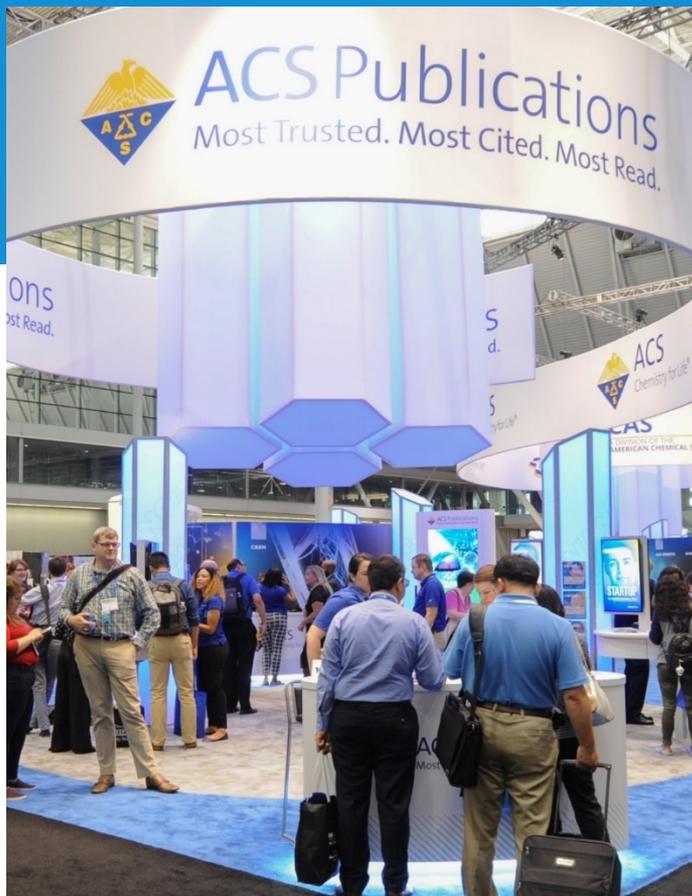


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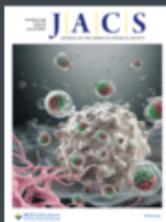
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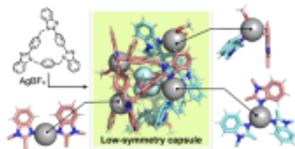
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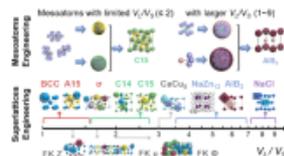
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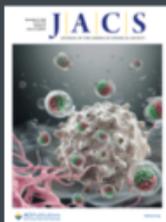


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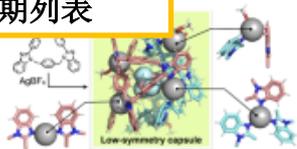
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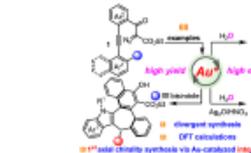
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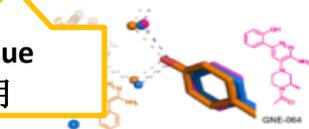
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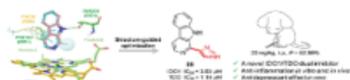
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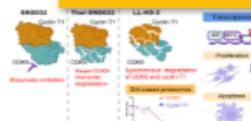
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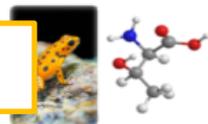


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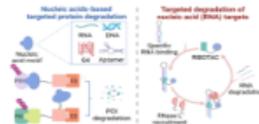
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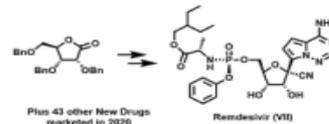
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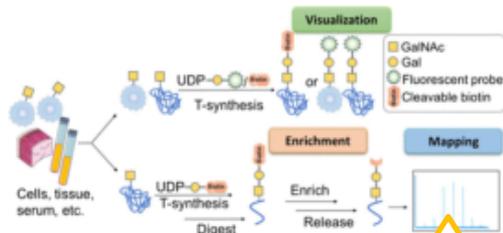
Zhonghua Li*, Qi Du, Xiaoxiao Feng, Xuezheng Song, Zhenggang Ren, and Haojie Lu*

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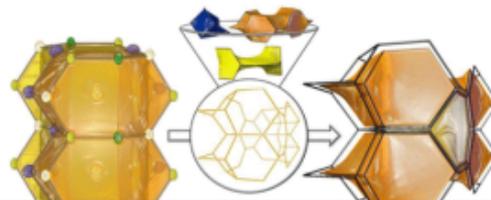
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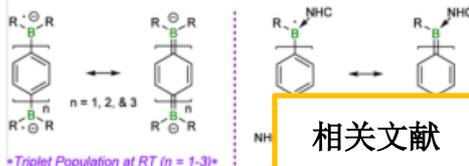
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Herein, we report the syntheses and electronic structures of crystalline dianionic as well as neutral diboron-centered classical diradicaloids as boron analogues of classical Thiele, Chichibabin, and Müller (this only for dianionic diradicaloids!) hydrocarbons. These are based on borane radical anion and NHC-stabilized boryl radical spin carriers, respectively. All these dianionic diboron-centered diradicaloids exhibit triplet population at room temperature regardless of the π -conjugated spacer: *p*-phenylene, *p,p'*-biphenylene, or *p,p'*-terphenylene. In the case of neutral diboron-centered diradicaloids, the

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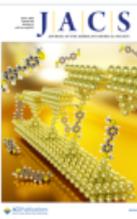
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Patrick Pfäff^{1,†}, Kusal T. G. Samarasinghe^{2,†}, Craig M. Crews^{3,4} and Erick M. Carreira¹

¹, Department of Chemistry and Applied Biosciences, Laboratory of Organic Chemistry, ETH Zürich, Vladimir-Prelog-Weg 3, 8093 Zürich, Switzerland

², Department of Molecular, Cell, and Developmental Biology, Yale University, 260 Whitney Avenue, New Haven, CT 06511, United States

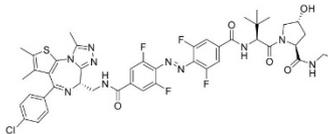
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(2S,4R)-1-((S)-2-(4-((E)-4-(((S)-4-(4-chlorophenyl)-2,3,9-trimethyl-6H-thieno[1,2,4]triazolo[4,3-a][1,4]diazepin-6-yl)methyl)carbonyl)-2,6-difluorophenyl)propanamide)-3,3-dimethylbutanoate)-4-hydroxy-N-(4-(4-methylthiazol-5-yl)benzyl)pyrrolidine-2-carboxamide (photoPROTAC-1)



JQ-1 amine **18** (10.5 mg, 28.0 μ mol, 1.00 equiv) and acid **54** (21.4 mg, 28.0 μ mol, 1.00 equiv) were dissolved in anhydrous DMF (0.28 mL, 0.1 M). DIPEA (12 μ L, 85 μ mol, 3.00 equiv) and HATU (11.3 mg, 30.0 μ mol, 1.05 equiv) were added to the reaction mixture at room temperature. After 2 hours, the reaction mixture was quenched by addition of sat. aq. NaHCO₃ and the aq. phase was extracted three times with EtOAc. The combined org. layers were washed with brine and dried over sodium sulfate. Residual DMF and tetramethylurea were removed by lyophilization after freezing in a water/dioxane mixture. The crude product was further purified by flash column chromatography (94% EtOAc/4% iPrOH/2% H₂O) to afford photoPROTAC-1 as an orange oil (16.0 mg, 14.0 μ mol, 51%).

Rf = 0.36 (85% EtOAc/10% iPrOH/5% H₂O).

¹H NMR (500 MHz, CD₃OD) δ = 8.87 (s, 1H), 7.70 (dd, *J* = 5.1, 1.6 Hz, 2H), 7.67 (dd, *J* = 5.1, 1.6 Hz, 2H), 7.52 (d, *J* = 8.5 Hz, 2H), 7.48 (d, *J* = 8.5 Hz, 2H), 7.44 – 7.40 (m, 4H), 4.91 (s, 1H), 4.65 – 4.50 (m, 4H), 4.43 (dd, *J* = 13.6, 7.0 Hz, 2H), 4.35 (d, *J* = 15.4 Hz, 1H), 3.98 (d, *J* = 11.0 Hz, 1H), 3.87 (dd, *J* = 11.0, 3.8 Hz, 1H), 2.71 (s, 3H), 2.47 (s, 3H), 2.43 (s, 3H), 2.29 – 2.22 (m, 1H), 2.15 – 2.09 (m, 1H), 1.69 (s, 3H), 1.13 (s, 9H).

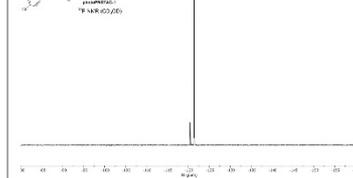
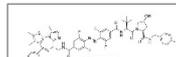
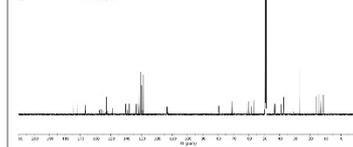
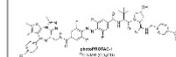
¹³C NMR (126 MHz, CD₃OD) δ = 174.4, 172.0, 166.8, 166.7, 166.5, 157.4, 156.1, 155.3, 153.0, 152.2, 149.0, 140.3, 139.2, 138.1, 138.1, 134.3, 133.5, 133.4, 133.3, 133.3, 132.0, 132.0, 131.5, 131.4, 131.3, 130.4, 129.8, 129.0, 113.4, 113.1, 71.1, 60.9, 59.9, 58.2, 56.8, 43.7, 42.9, 39.0, 37.2, 27.1, 15.8, 14.4, 12.9, 11.6.

¹⁹F NMR (471 MHz, CD₃OD) δ = -121.4, -121.5.

IR: 3322, 2925, 28855, 1665, 1533, 1427, 1343, 1243, 1090, 1047, 967, 843.

ESI-MS/MS: calcd. for C₅₄H₅₂ClF₆N₁₁O₅S₂ [M+H]⁺ 1108.3135, found 1108.3144.

SI-References



Article Pages 文章页面

The screenshot shows the article page for "Three-Component Cross-Electrophile Coupling: Regioselective Electrochemical Dialkylation of Alkenes" by Luoping Li, Yi Wang, Jieqin Zheng, Wen Zhang, Kimberly A. Seo, and Gong Li. The page includes an abstract, a chemical reaction scheme, representative products, and a references section. The article is published in the Journal of the American Chemical Society (JACS), Volume 145, Issue 41, on October 6, 2023. The article has 13k article views, 19 altmetric scores, and 9 citations. The page also features a "Recommended Articles" section and a "Supporting Information" link.



PDF 全文下载

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Abstract 摘要

Abstract
The cross-electrophile dialkylation of alkenes enables the formation of two C(sp²)-C(sp³) bonds from readily available starting materials in a single transformation, thereby providing a modular and expedient approach to building structural complexity in organic synthesis. Herein, we exploit the disparate electronic and steric properties of alkyl halides with varying degrees of substitution to accomplish their selective activation and addition to alkenes under electrochemical conditions. This method enables regioselective dialkylation of alkenes without the use of a transition-metal catalyst and provides access to a diverse range of synthetically useful compounds.



Acknowledgments

Financial support was provided by NIGMS (R01GM135920, to S.L.) and NSF Center for Synthetic Organic Electrochemistry (CHE-2002158, to K.A.S.). S.L. is grateful to FMC Corporation for a New Investigator Award and the Camille and Henry Dreyfus Foundation for a Camille Dreyfus Teacher-Scholar Award. K.A.S. acknowledges support from the David and Lucile Packard Fellowship for Science. We thank K. R. Meinhuis, L. F. T. Novais, J. I. Martinez Alvarado, and J. Rein for manuscript editing, I. Keresztes and D. Wood for assistance in mass spectrometry data collection and analysis, A. J. Resler, S. J. Lee, and Z. Lu for assistance in substrate synthesis, and J. Liu for reproducing experiments.

References

This article references 31 other publications.

- (a) Corey, E. J.; Chang, X.-M. *The Logic of Chemical Synthesis*; Wiley: New York, 1995.
- (b) Chai, J.; Fu, D. C. Transition Metal Catalyzed Alkyl-Alkyl Bond Formation: Another Dimension in Cross-Coupling Chemistry. *Science* **2017**, *256*, eaaf7230, DOI: 10.1126/science.aaf7230
- (c) View | Google Scholar
- (d) For recent reviews, see:
(a) Derosa, J.; Apollinar, O.; Kang, T.; Tran, V. T.; Engle, K. M. Recent Developments in Nickel-Catalyzed Intermolecular Dicarbofunctionalization of Alkenes. *Chem. Sci.* **2020**, *11*, 4207–4256, DOI: 10.1039/C9SC06698E
- (b) View | Google Scholar
- (c) Luo, Y.-C.; Xu, C.; Zhang, X. Nickel-Catalyzed Dicarbofunctionalization of Alkenes. *Chin. J. Chem.* **2020**, *36*, 1371–1394, DOI: 10.1002/cjoc.202000224



Reference 参考文献和链接



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Recommended Articles
On-Catalyzed Hydroformylation of Alkenes: Photocatalytic Method Development and Electroanalytical Mechanistic Investigation
February 1, 2024 | *Journal of the American Chemical Society*
Peter Li, Jian Dong, Devin D'Wood, Yi Wang, Steven H. Lippert, and Gong Li



Figures 高清图片，可下载或下载至 MS Powerpoint



Supporting Information 帮助信息

Scheme 1
(A) Redox-neutral alkene dialkylation (eqs 3–6)
(B) Ni-catalyzed directed reductive dialkylation (eq 7)
(C) Ni-catalyzed non-directed reductive dialkylation (eq 10)

如何开启高级检索并收藏检索式？

Step 1-简单检索

在首页检索栏输入关键词或作者名。

输入过程中触发的联想关键词，可提供相关性更高的检索结果。

refining|



Refining Petroleum for Chemicals

Refining of Synthetic Crudes

Origin and Refining of Petroleum

Rovnaník, Pavel

Ravagnani, Mauro A. S. S.

如何开启高级检索并收藏检索式？

Step 2-筛选

点击一次检索结果页面的Refine Search，展开高级检索条件，如检索词出现的位置、出版日期、期刊名称等。做好进一步筛选后，再次检索。

The screenshot displays the 'REFINE SEARCH' interface. At the top, there are links for 'Advanced Options', 'Search History', and 'Saved Searches'. The main search area includes a dropdown menu for 'Title' with the current search term 'Refining of Synthetic Crudes'. Below this is a search input field with the placeholder 'Enter Search term' and an example 'e.g. Journal of The American Chemical Society'. A list of search locations is shown, with 'Anywhere' selected. To the right, there are radio buttons for 'All Content' (selected) and 'Open Access Content'. Under 'Open Access Content', there are checkboxes for 'ACS Author Choice' and 'ACS Editors' Choice'. At the bottom, there are radio buttons for 'All dates' and 'Last' (selected), along with a 'year' dropdown menu.

如何开启高级检索并收藏检索式？

RESULTS: 1 - 20 of 1323 Follow results: 🔍 📡

REFINE SEARCH ^ PER PAGE: 20 50 100 | SORT: RELEVANCE ▾

[Advanced Options](#) [Search History](#) [Saved Searches](#)

Save this search ✕

Name:

Alert me to new results:
 Never Daily Weekly Monthly

[Save search](#)

Step 3-保存

点击最终检索结果右上方的放大镜按钮，在弹出窗口为检索式命名并设置提醒频率。

点击Save search保存后，除了通过邮件查看该检索式的更新情况，您也可在检索结果和ACS ID账号后台的Saved Searches找到。

Saved Search Name	Frequency	User actions	User actions
2005~2019: Energy & Fuels	M	RUN	DELETE



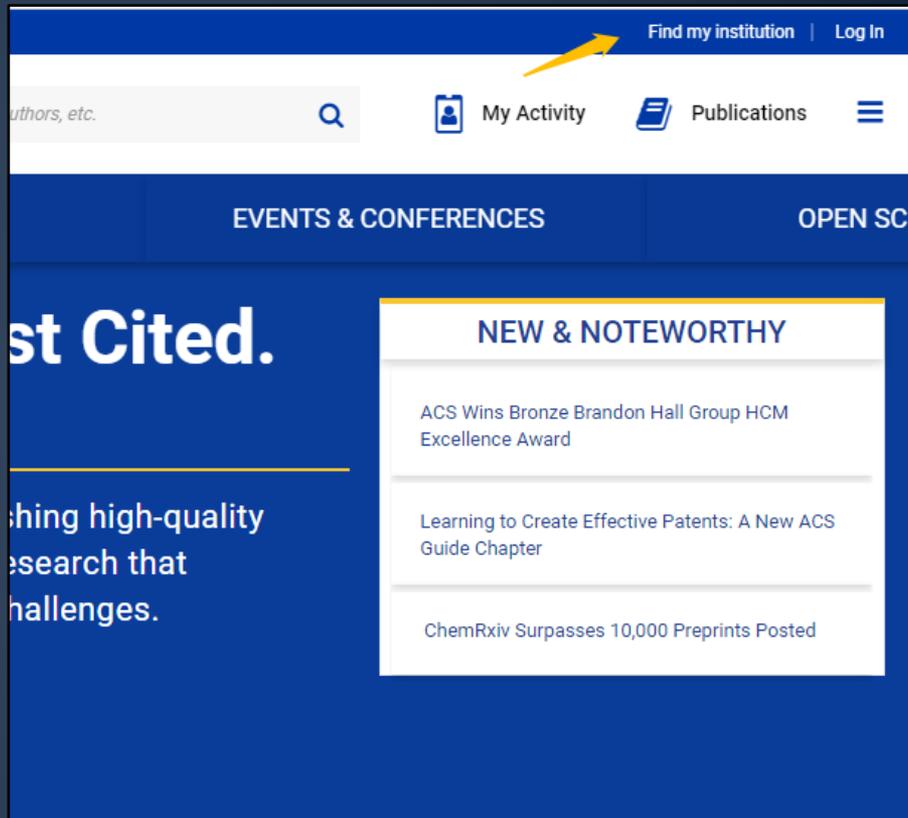
Saved Searches

远程访问

2020年起，ACS 数据库加入CARSII，即“Cernet统一认证与资源共享基础设施联盟”，向该联盟的成员高校提供远程访问认证服务。

Step 1

点击数据库首页右上角的“Find my institution”



The screenshot shows the ACS Publications website interface. At the top right, there is a navigation bar with the text "Find my institution" and "Log In". A yellow arrow points to the "Find my institution" link. Below the navigation bar, there is a search bar with the text "Authors, etc." and a magnifying glass icon. To the right of the search bar are icons for "My Activity" and "Publications", along with a hamburger menu icon. Below the navigation bar, there are two main sections: "EVENTS & CONFERENCES" and "OPEN SCIENCE". The main content area features a large heading "Most Cited." and a sub-heading "Publishing high-quality research that challenges." To the right of the main content area, there is a section titled "NEW & NOTEWORTHY" with three items listed: "ACS Wins Bronze Brandon Hall Group HCM Excellence Award", "Learning to Create Effective Patents: A New ACS Guide Chapter", and "ChemRxiv Surpasses 10,000 Preprints Posted".

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Step 2

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Search By University or Organization

Find Institution via Federation

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- CARS I Federation
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远程访问

Step 3

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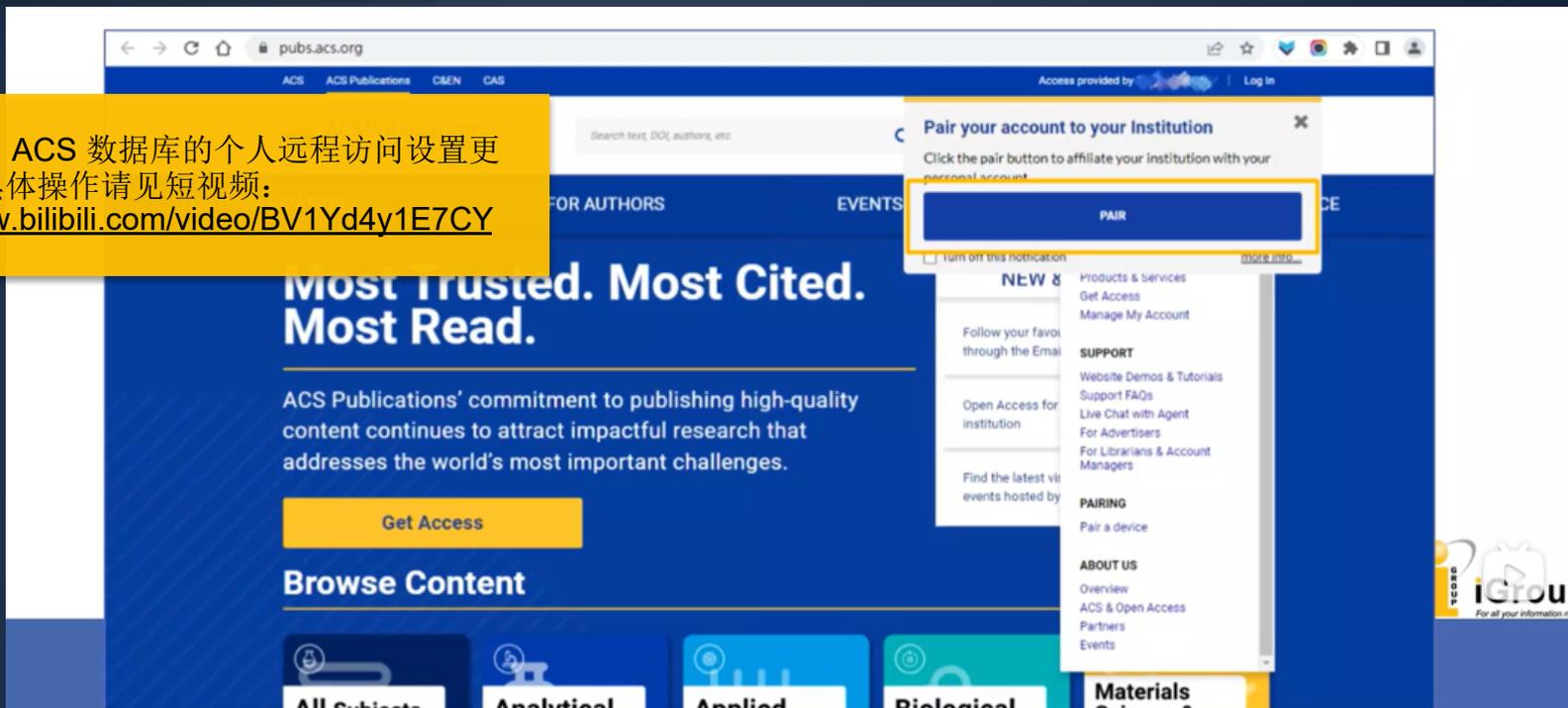
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Journal of the American Chemical Society 美国化学会志

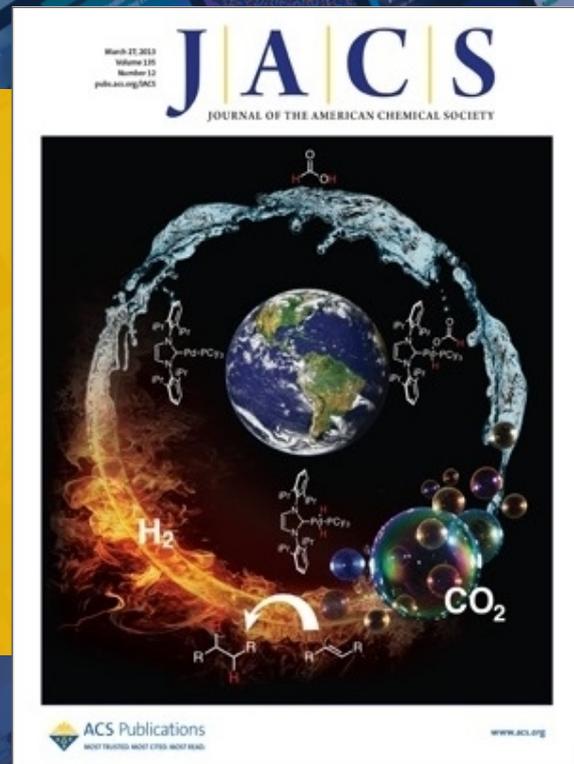
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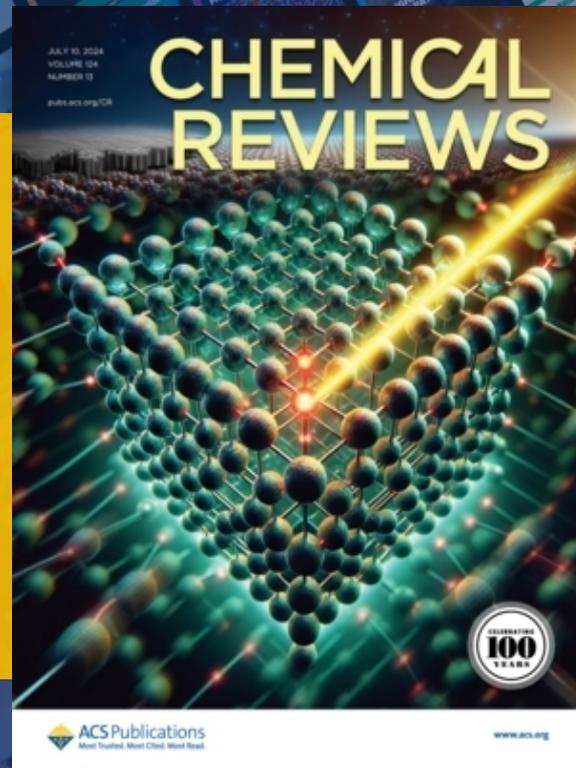
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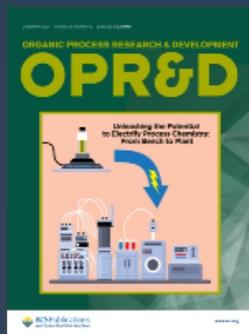
Basic Science of Chemistry 化学的基础科研领域



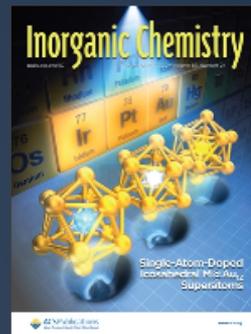
有机化学



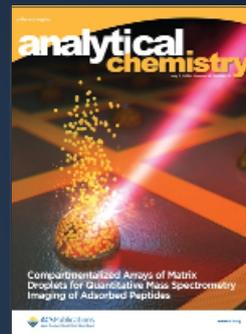
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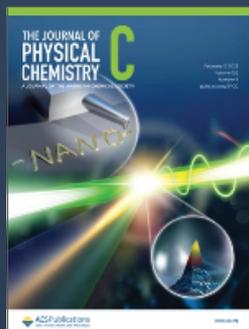
分析化学



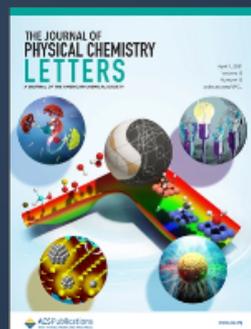
物理化学 A



物理化学 B



物理化学 C



物理化学快报



化工研究

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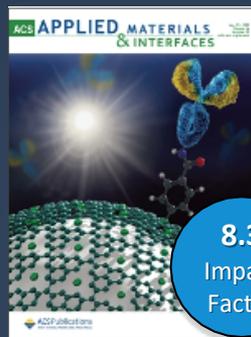
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材料化学



9.6
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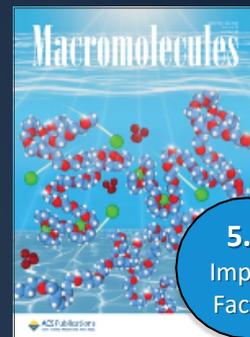
8.3
Impact
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应用材料&界面



15.8
Impact
Factor

纳米材料



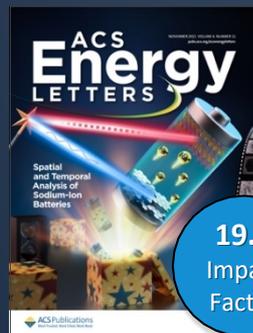
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高分子材料



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生物材料



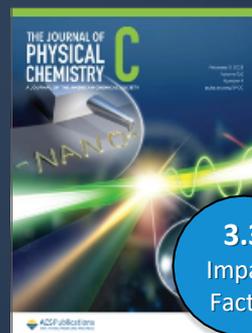
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能源材料快报



11.3
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催化科学



3.3
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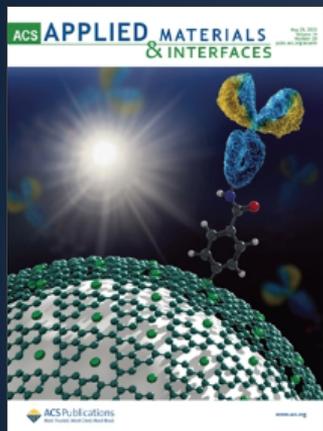
材料物理化学



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Materials &
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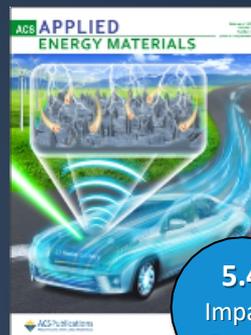
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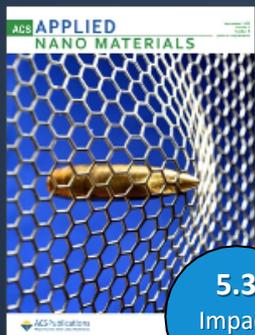
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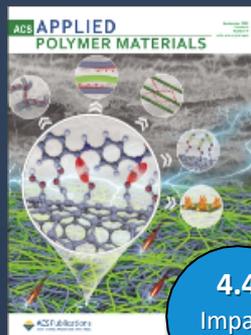
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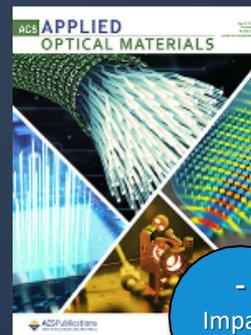
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ACS AMI 子刊

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电子材料 Electronic

能源材料 Energy

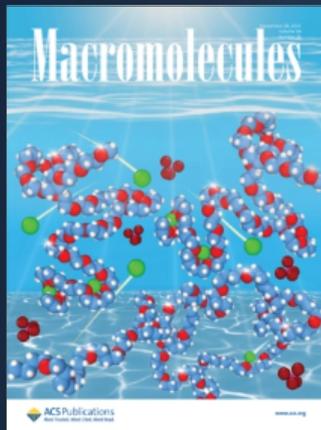
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Polymer Science 高分子科学



Macromolecules

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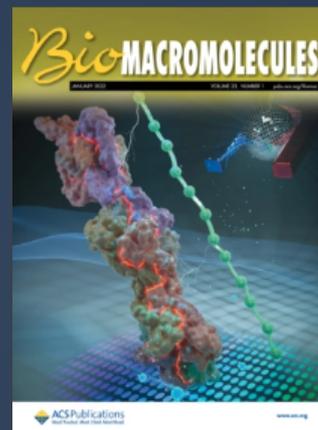
5.1



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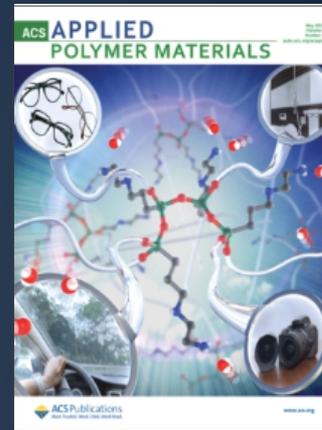
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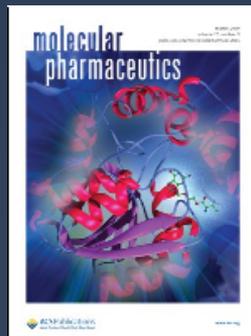
Pharmaceuticals 药物化学



药物化学



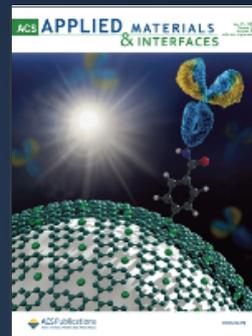
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分子药剂学



药物制剂



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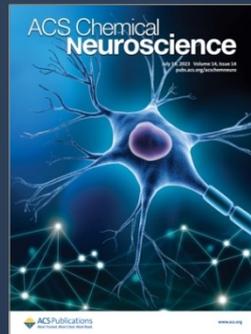
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毒理学



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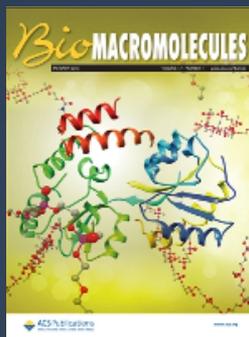


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传染病研究

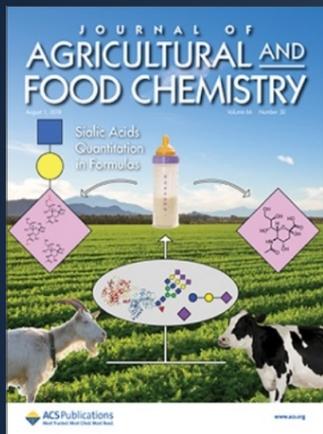
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生物技术与生物化学期刊

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- ACS Chemical Biology
- ACS Chemical Neuroscience
- ACS Synthetic Biology ←
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- Journal of Agricultural and Food Chemistry
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(与美国生药协会合办) ←
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*Journal of
Agricultural and
Food Chemistry*

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Science &
Technology*

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2.4



*ACS Food
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IMPACT FACTOR

2.6



*Journal of Natural
Products*

IMPACT FACTOR

3.4

Environmental Science 环境科学与技术



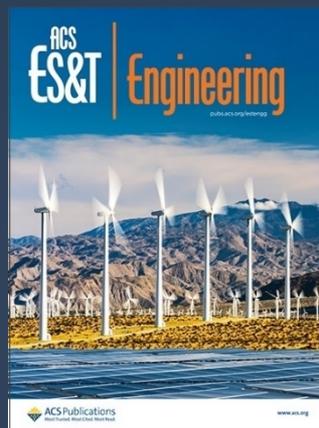
*Environmental
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10.9



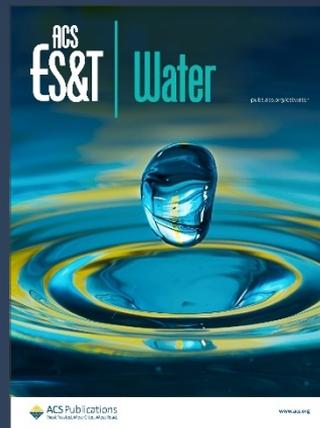
*Environmental
Science &
Technology Letters*

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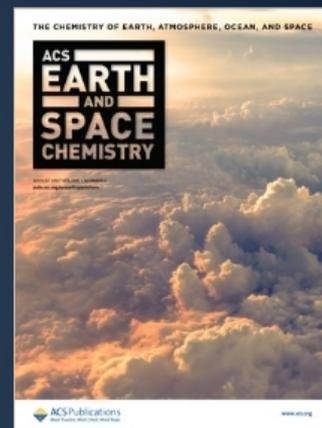
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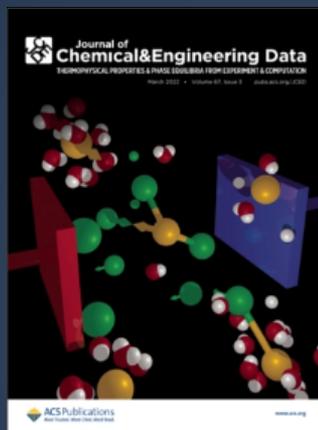
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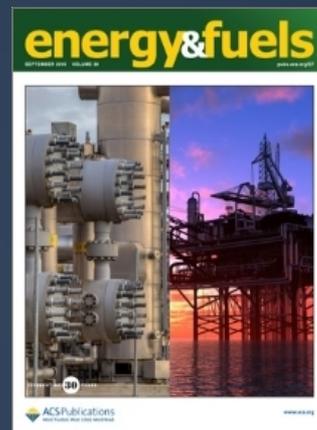
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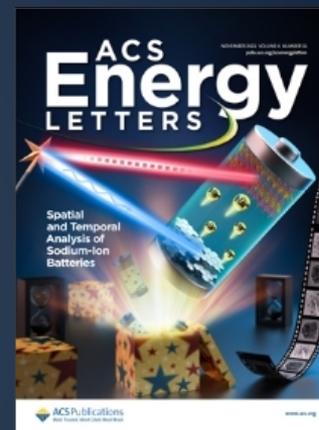
Journal of Chemical & Engineering Data

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2.0



Energy & Fuels

IMPACT FACTOR
5.2



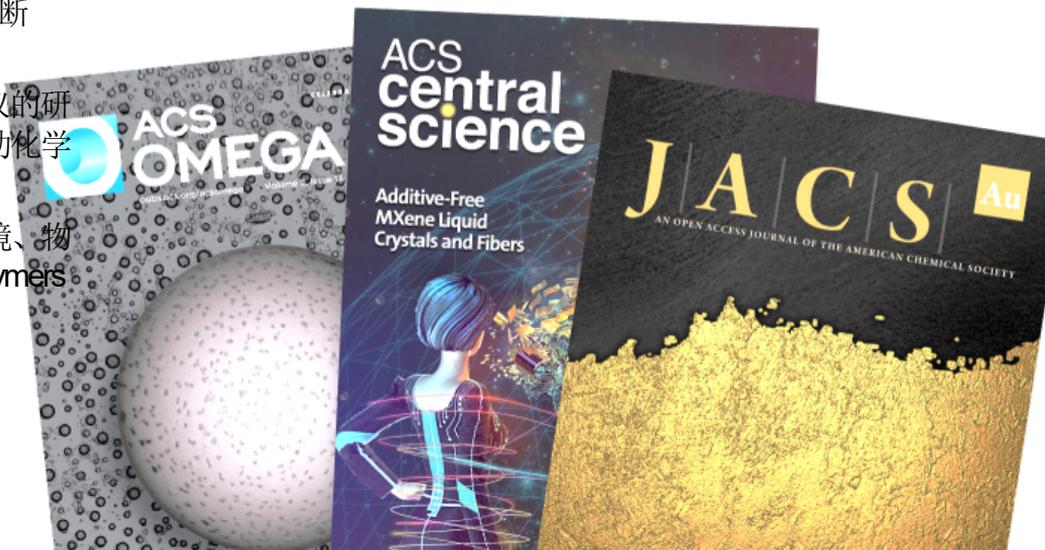
ACS Energy Letters

IMPACT FACTOR
19.5

Open Access Journals

ACS 对全球开放科学呼声的回应

- 学术出版多年来一直在向开放获取迈进，ACS积极应对全球开放获取以及开放科学的呼声，2020年之前，ACS旗下有两本全OA的期刊。
- 2015年上线的ACS Central Science（不收取发表费用），目标是提升化学作为“核心科学”的关注度，自创刊以来不断发表与其他学科交叉领域杰出的研究成果。
- 2016年上线的ACS Omega，旨在快速发表经过同行评议的研究成果，加快新理念和有潜力的研究的传播，从而推动化学科学的前沿。
- 2021年起上线Au（金）系列期刊，提供覆盖有机、环境、物理等各个领域的全OA期刊。目前JACS Au和ACS Polymers Au已获得首个影响因子。



Open Access Journals

美国化学会旗下的开放获取期刊总共有 18 种，分别具有不同的内容和定位。

ACS Central Science, ACS Omega, JACS Au：跨学科化学期刊

ACS Au Journals 期刊：

- ACS Bio & Med Chem Au
- ACS Engineering Au
- ACS Environmental Au
- ACS Materials Au
- ACS Measurement Science Au
- ACS Nanoscience Au
- ACS Organic & Inorganic Au
- ACS Physical Chemistry Au
- ACS Polymers Au

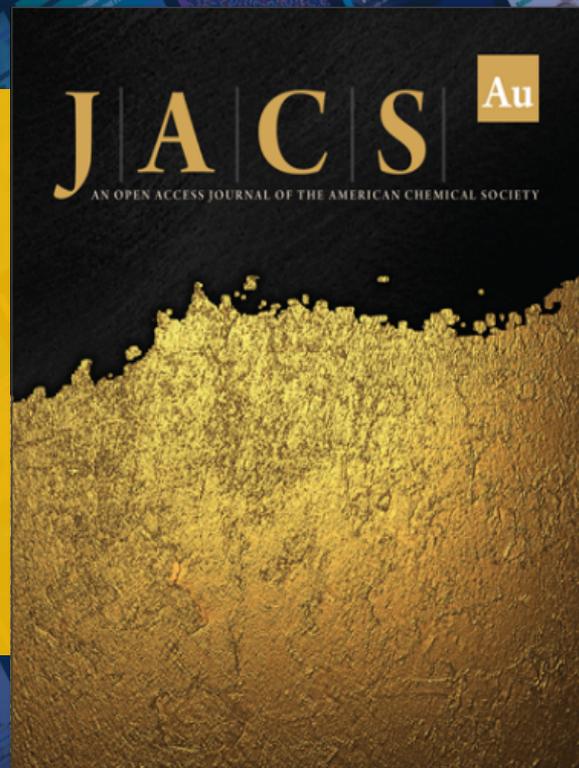


ACS 与中国的高校/科研机构的合作期刊：

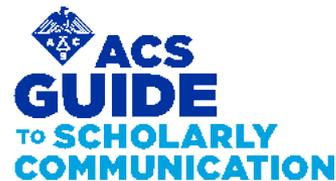
- | | | |
|-------------------------------|------|---|
| Precision Chemistry | 2023 | University of Science and Technology of China |
| Chemical & Biomedical Imaging | 2023 | Nanjing University |
| Environment & Health | 2023 | the Research Center for Eco-Environmental Sciences, CAS |

JACS Au——为各个学科推出Au系列OA期刊

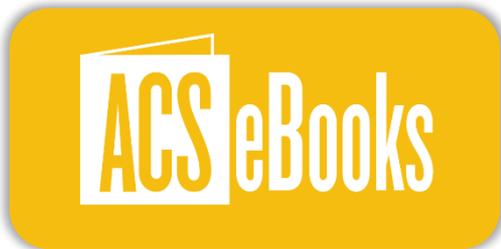
- 2021年1月正式出版首期，每期收录10~20篇文章。
- 在涉及化学领域各分支学科的同时，更看重研究的即时影响力。
- 遵循JACS的传统，发表对全球化学群体都具有广泛影响和相关性的研究。
- JACS Au 拥有一支独立于其他期刊的编辑团队。
- 遵循 ACS AuthorChoice政策。



ACS Publications除了拥有丰富的期刊资源外，还有其它类型的学术资源，例如电子图书、科研写作指南、C&EN新闻杂志等



ACS Guide



ACS eBooks



ACS In Focus

**ACS REAGENT
CHEMICALS**
ACS Reagent Chemicals



C&EN Global Enterprise



<https://pubs.acs.org/series/symposium>

- ACS eBooks 拥有超过 1,600 本专著，37,000 个章节，正文章节都经过同行评审，每年大约新增 30 本新书。
 - 由化学领域顶尖学者编写的专著，包括 40 多名诺贝尔奖获得者。
 - ACS Symposium Series (1974 - 至今)
 - Advances in Chemistry (1949 - 1998)
 - Medicinal Chemical Reviews 系列 (2022 - 至今)
- ACS药化部门出品的制药行业年鉴

37,000

CHAPTERS

1,600

BOOKS

41

NOBEL LAUREATES



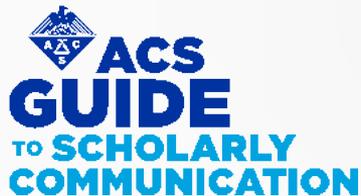
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ACS IN FOCUS

<https://pubs.acs.org/series/infocus>

- **ACS In Focus** 系列电子书是快速掌握最新课题的首选读物，目前已上线70多本。
- 采用浅显易懂的语言，介绍最前沿的新兴科学话题，篇幅精炼，可在4-6小时内读完。
- 填补学生从课堂到期刊文献之间的学习资料空缺。
- 丰富的在线阅读功能：弹出式术语表、视频采访、动画等。





ACS GUIDE TO SCHOLARLY COMMUNICATION

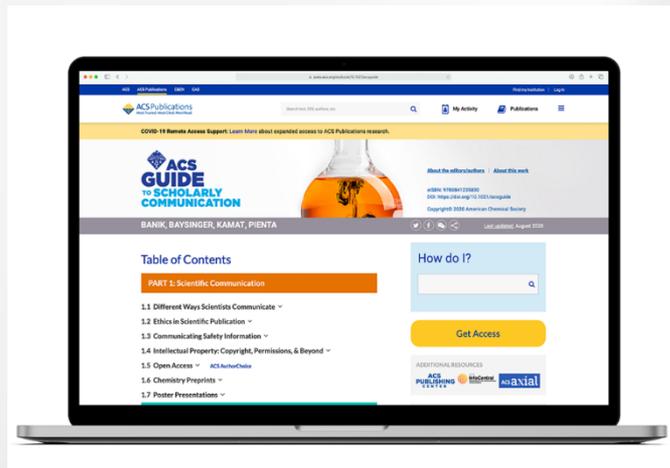
<https://doi.org/10.1021/acsguide>

■ ACS Guide to Scholarly Communication

学术交流指南是一本在线参考工具书，旨在为学生、研究人员、教育工作者和图书馆员提供掌握学术交流所需的指导与建议。

■ 适用于广泛的学科领域，蕴含生动的多媒体资源和科技论文写作的指导。

■ 适用人群：本科生，研究生，教师。



ACS REAGENT CHEMICALS

<https://pubs.acs.org/doi/book/10.1021/acsreagents>

- **ACS Reagent Chemicals** 是一份权威的化学品试剂标准手册。
- 已为**500**多种常用的化学品提供最高级别的纯度标准。
- 提供符合本标准的化学品理化性质，详细的规格参数以及相应的测试方法。
- 美国药典 **USP** 使用符合此标准的化学品用于药物测试。
- 美国食品药品监督管理局 **FDA** 执行 **USP** 的实施准则。



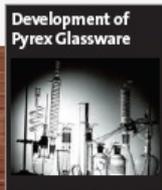


<https://pubs.acs.org/journal/cgeabj>

- **C&EN Global Enterprise** 是美国化学学会旗下的知名杂志。
- 回溯年份自 2016 年起，每周出版一期。
- 关注化学所有领域的科技前沿动态，工业和商业信息以及政府和企业的新闻和政策等。
- 高校用户请注意从上方链接进入访问。



1923



1943



1969



2015



2016

...2016 AND BEYOND

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