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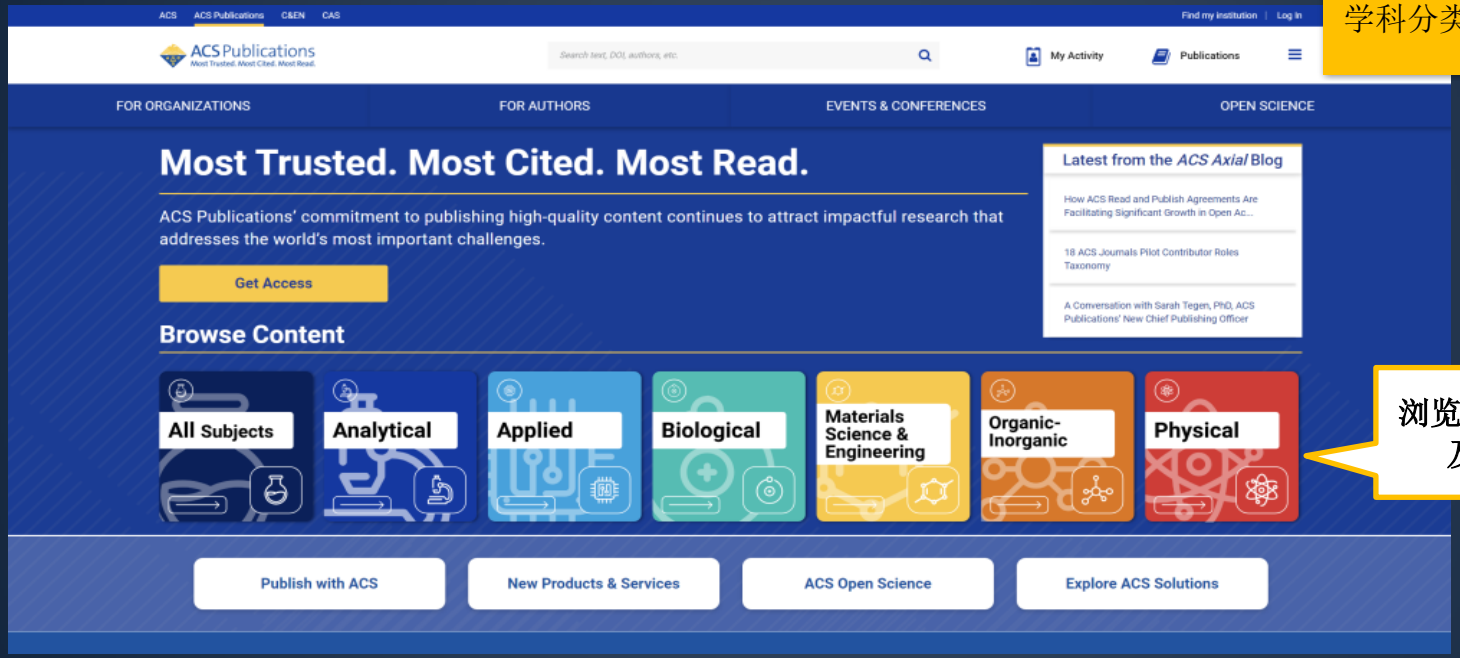

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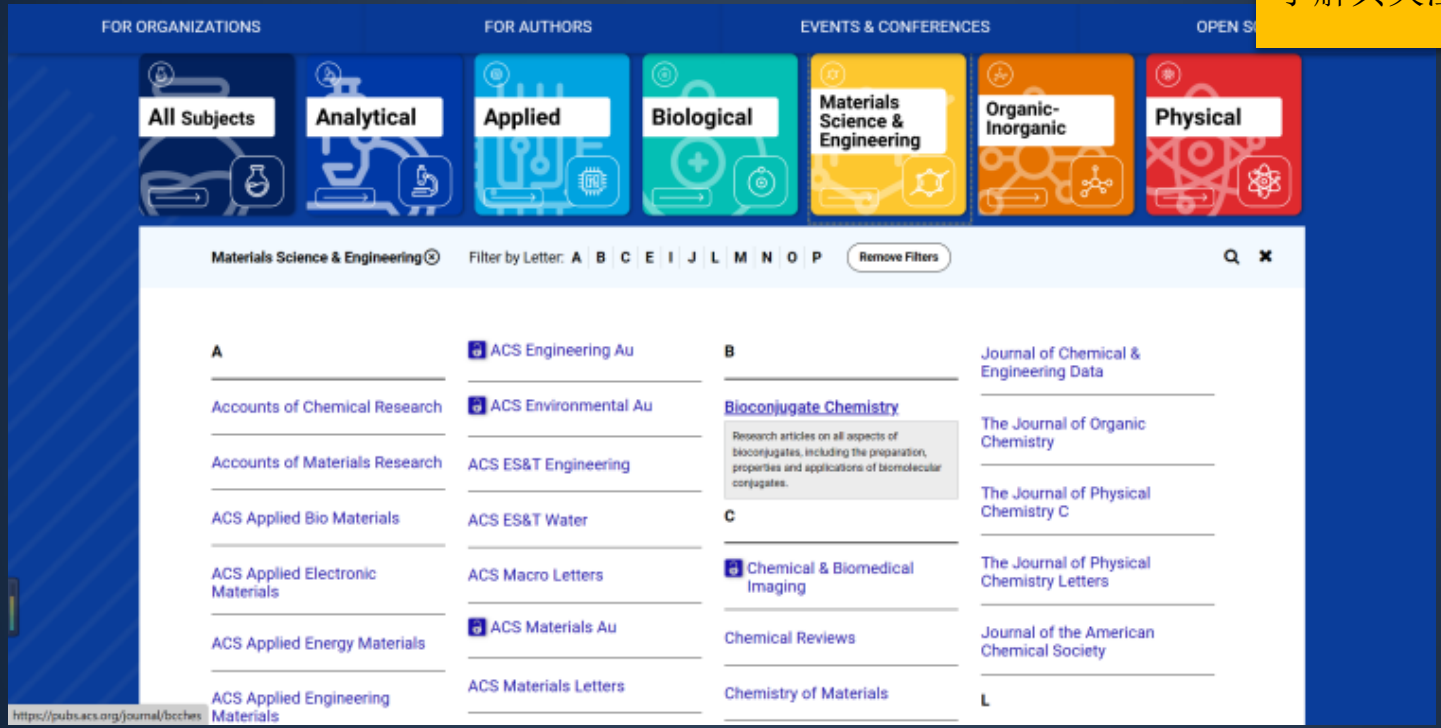

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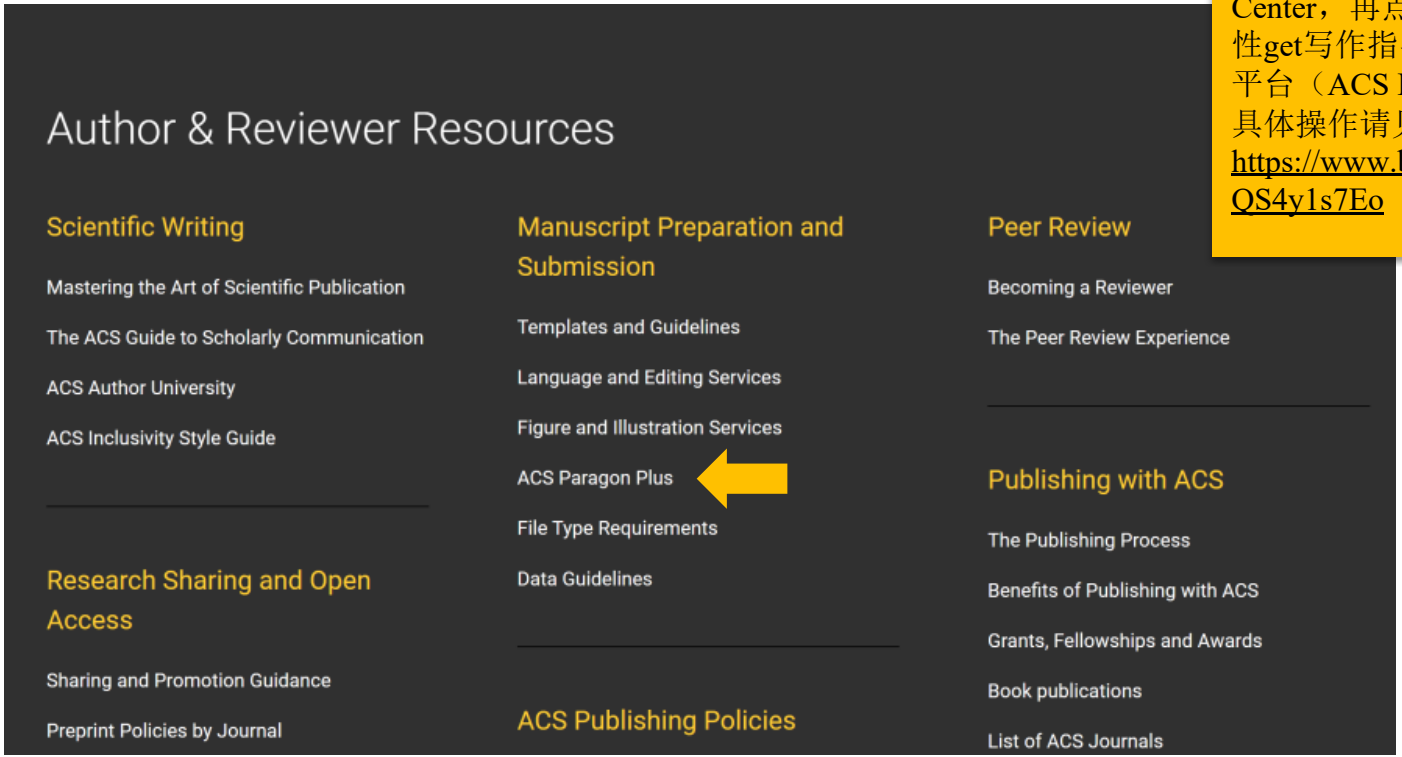

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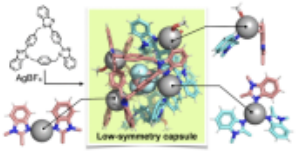

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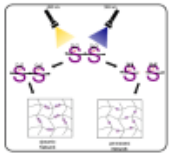

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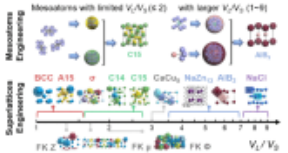

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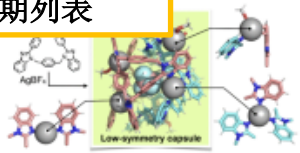

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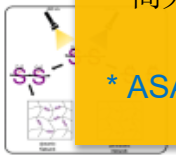

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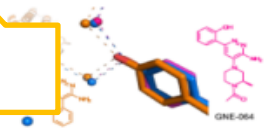

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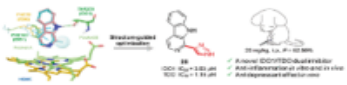

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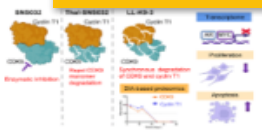

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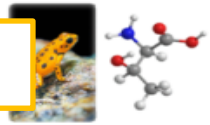

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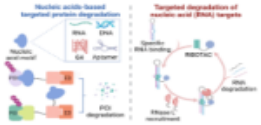

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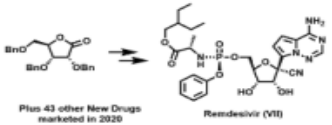

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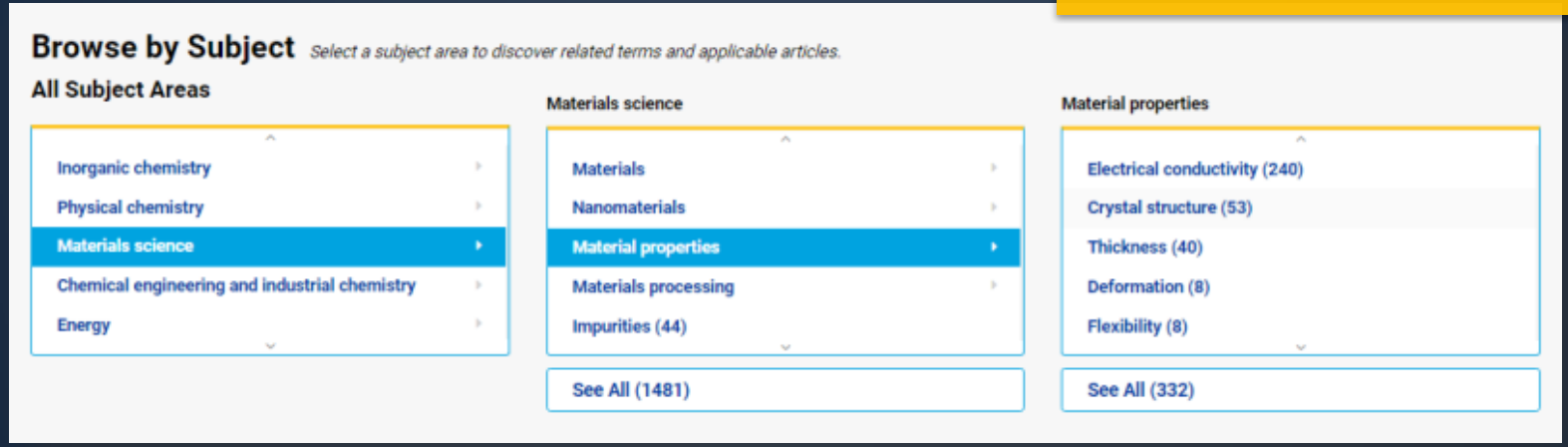

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Zhonghua Li*, Qi Du, Xiaoxiao Feng, Xuezheng Song, Zhenggang Ren, and Haojie Lu*

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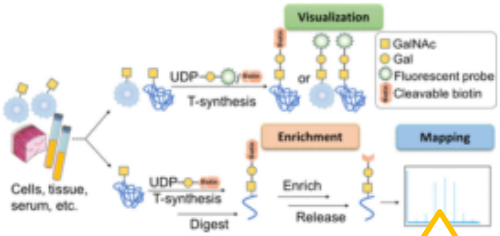

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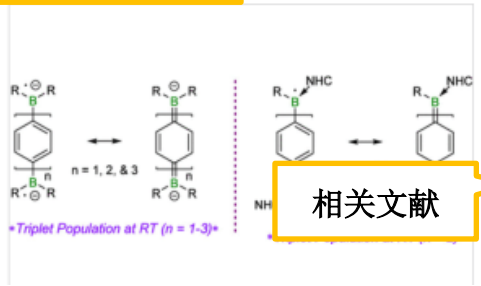
Abstract

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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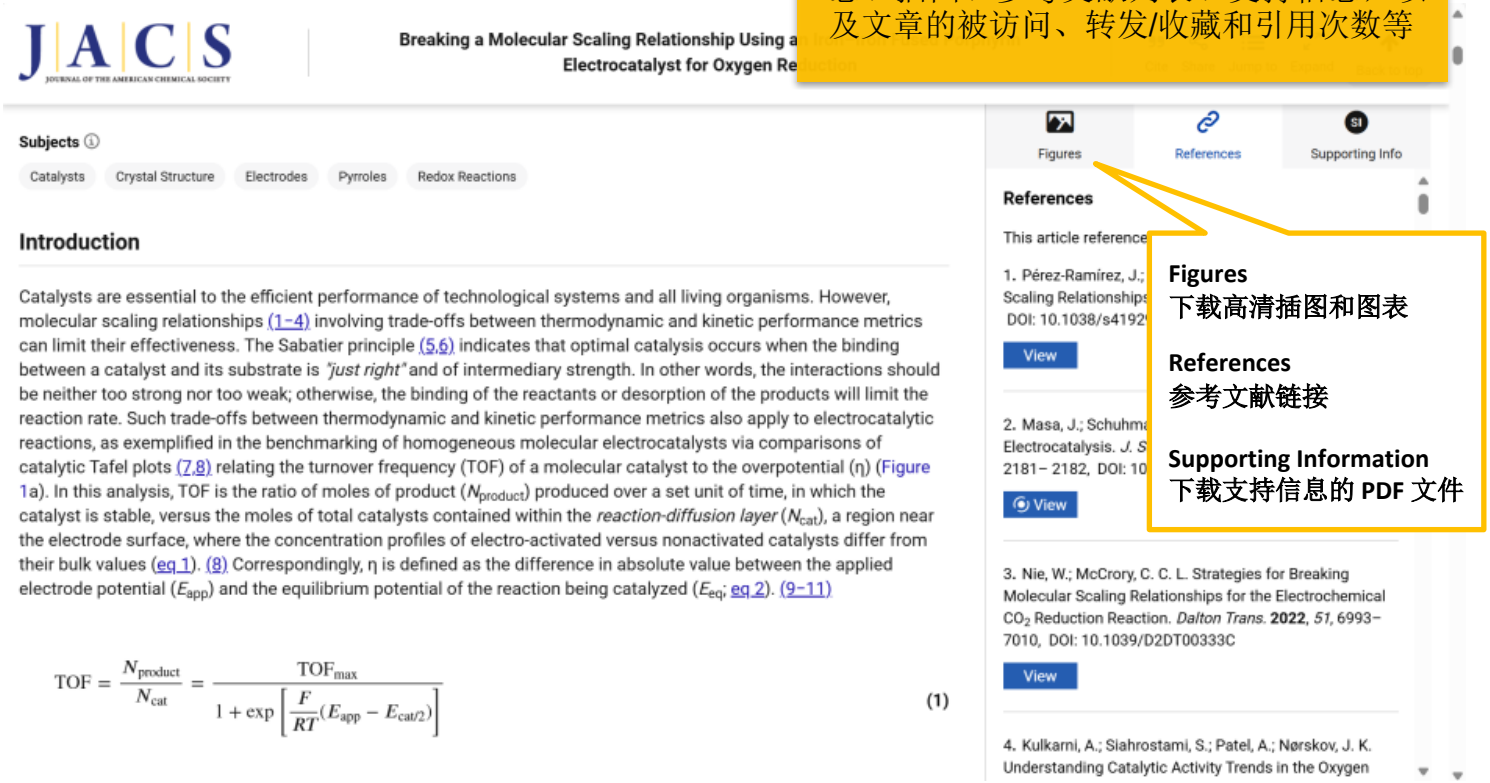

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Reversible Spatiotemporal Control of Induced Protein Degradation by Bistable PhotoPROTACs

Patrick Pfaff[1,*], Kusal T. G. Samarasinghe[2,*], Craig M. Crews[2,3,4] and Erick M. Carreira[1]

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

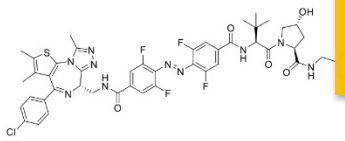
[2], Department of Molecular, Cell, and Developmental Biology, Yale University, 260 Whitney Avenue, New Haven, CT 06511, United States

[3], Dept of Chemistry, Yale University, New Haven, CT 06511, United States

[4], Dept of Pharmacology, Yale University, New Haven, CT 06511, United States

Content

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



JQ-1 amine **18** (10.5 mg, 28.0 µmol, 1.00 equiv) and acid **S4** (21.4 mg, 28.0 µmol, 1.00 equiv) were dissolved in anhydrous DMF (0.28 ml, 0.1 M). DIPEA (12 µl, 85 µmol, 3.00 equiv) and HATU (11.3 mg, 30.0 µmol, 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. $NaHCO_3$ 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% H_2O) to afford **photoPROTAC-1** as an orange oil (16.0 mg, 14.0 µmol, 51%).

Rf = 0.36 (85% EtOAc/10% iPrOH/5% H_2O).

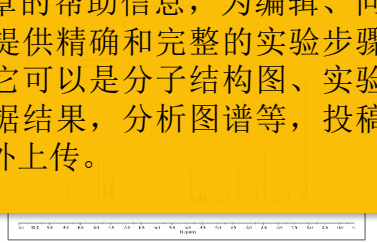
^{1}H NMR (500 MHz, CD_3OD) δ = 8.87 (s, 1H), 7.70 (dd, J = 5.1, 1.6 Hz, 2H), 7.67 (dd, J = 5.1, 1.6 Hz, 2H), 7.52 (d, J = 8.5 Hz, 2H), 7.48 (d, J = 8.5 Hz, 2H), 7.44 – 7.40 (m, 4H), 4.91 (s, 1H), 4.65 – 4.50 (m, 4H), 4.43 (dd, J = 13.6, 7.0 Hz, 2H), 4.35 (d, J = 15.4 Hz, 1H), 3.98 (d, J = 11.0 Hz, 1H), 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).

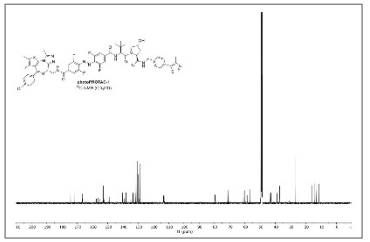
^{13}C NMR (126 MHz, CD_3OD) δ = 174.4, 172.0, 166.8, 166.7, 166.5, 157.4, 156.1, 155.3, 153.0, 152.2, 149.0, 140.3, 139.2, 138.1, 138.1, 134.3, 133.5, 133.4, 133.3, 133.3, 132.0, 132.0, 131.5, 131.4, 131.3, 130.4, 129.8, 129.0, 113.4, 113.1, 71.1, 60.9, 59.9, 58.2, 56.8, 43.7, 42.9, 39.0, 37.2, 27.1, 15.8, 14.4, 12.9, 11.6.

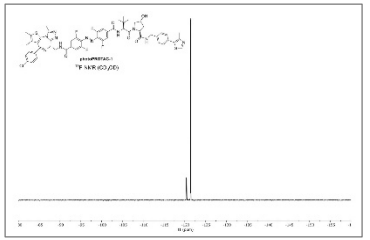
19F NMR (471 MHz, CD_3OD) δ = -121.4, -121.5.

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

ESI-HRMS: calcd. for $C_{56}H_{51}ClF_6N_{11}O_5S_2$ [M+H]$^+$ 1108.3135, found 1108.3144.







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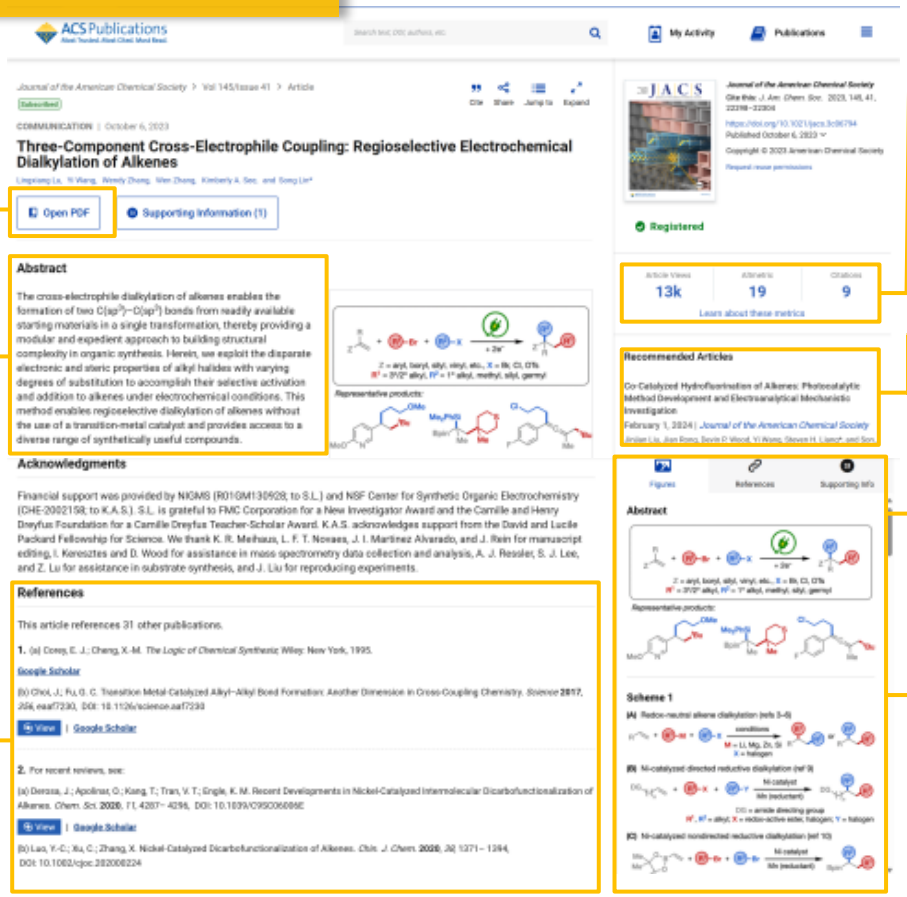

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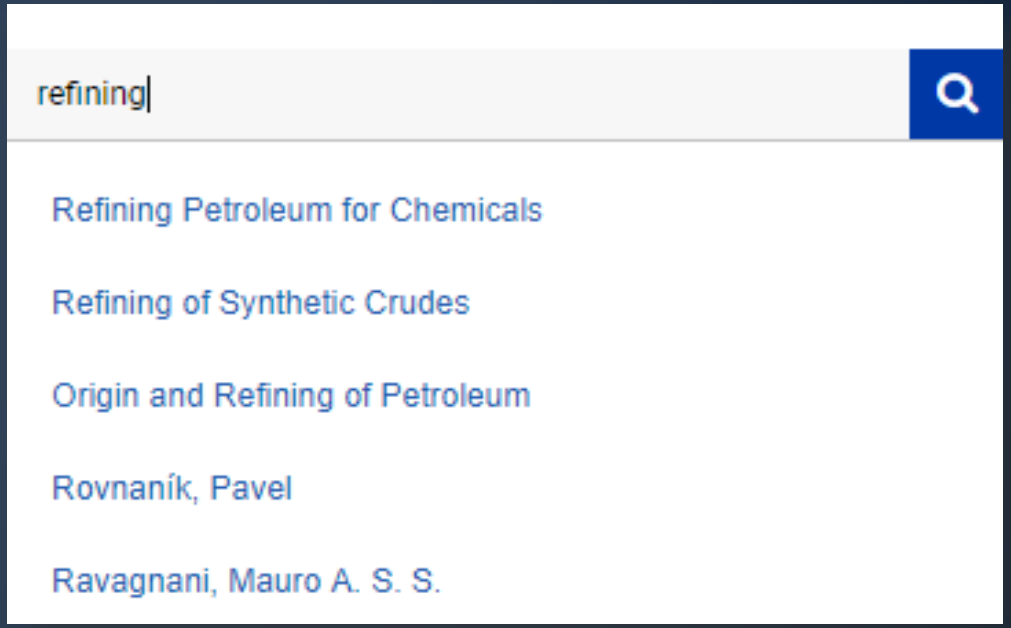
帮助信息

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。



ACS Publications
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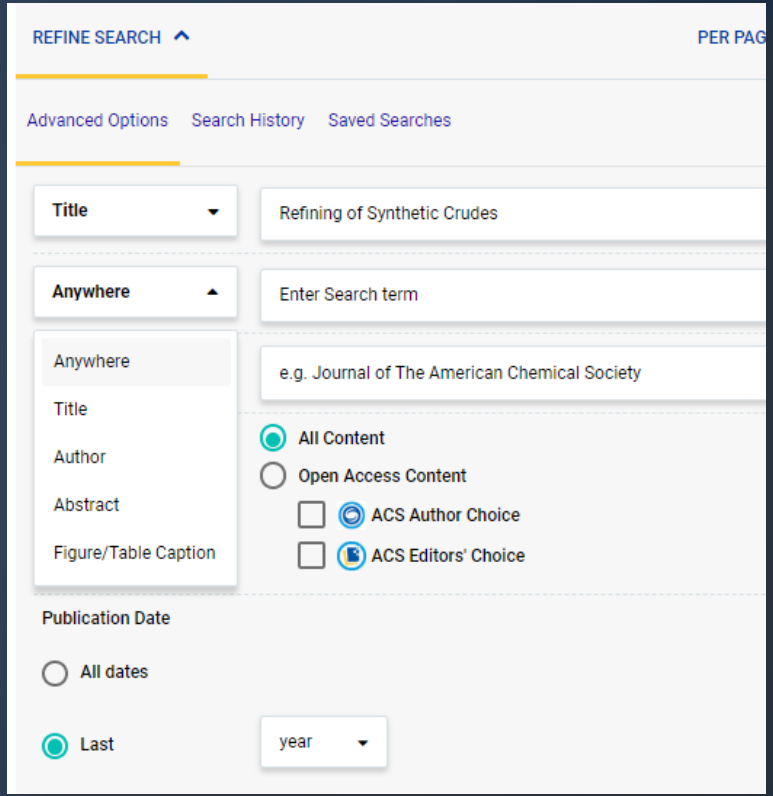
如何开启高级检索并收藏检索式？

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。



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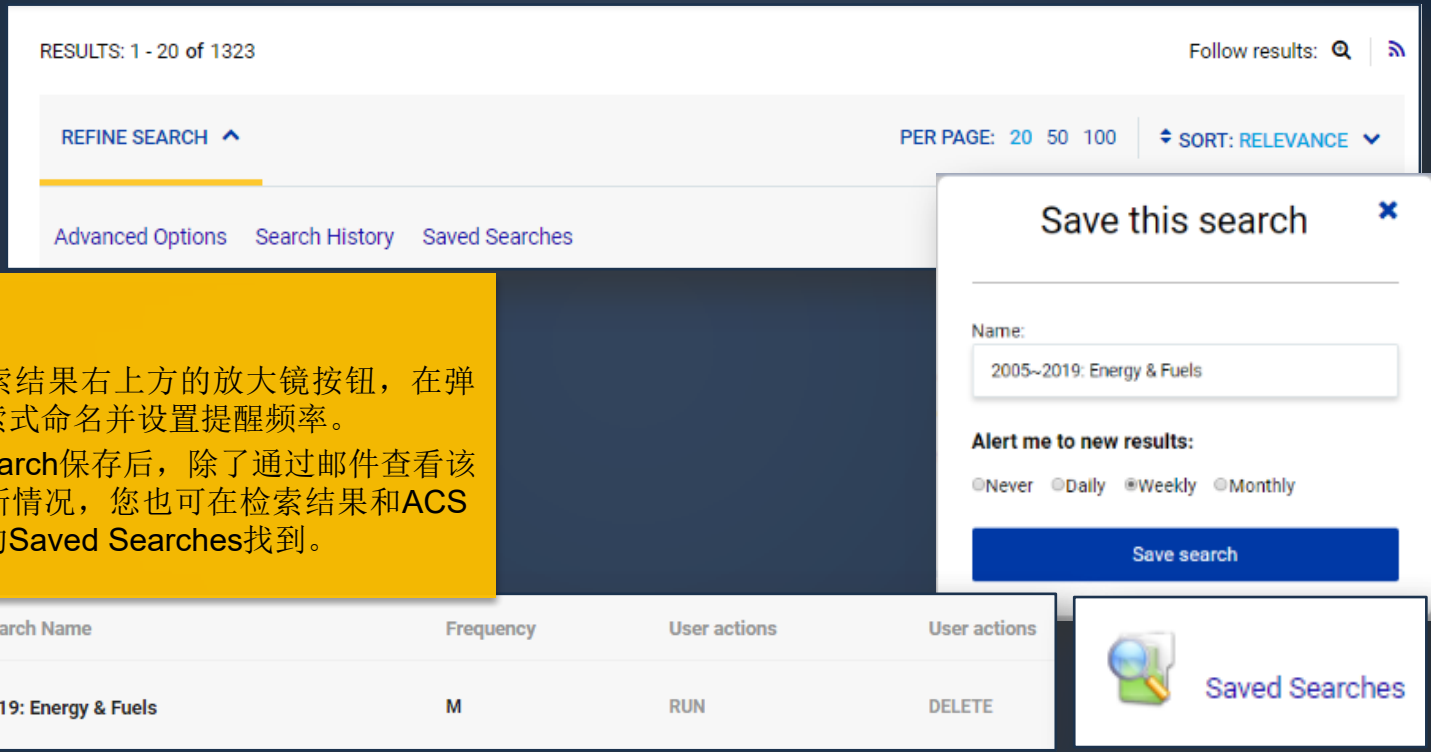
如何开启高级检索并收藏检索式？



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。

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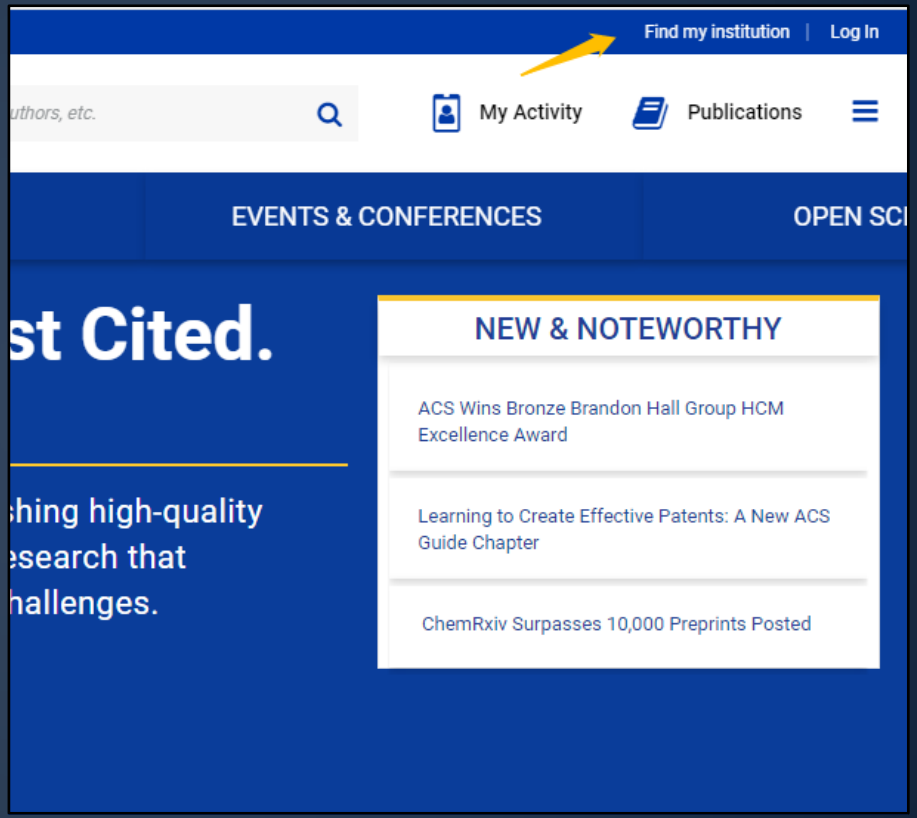
远程访问

2020年起，ACS 数据库加入CARSI，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行远程访问认证服务。

Step 1
点击数据库首页右上角的“Find my institution”



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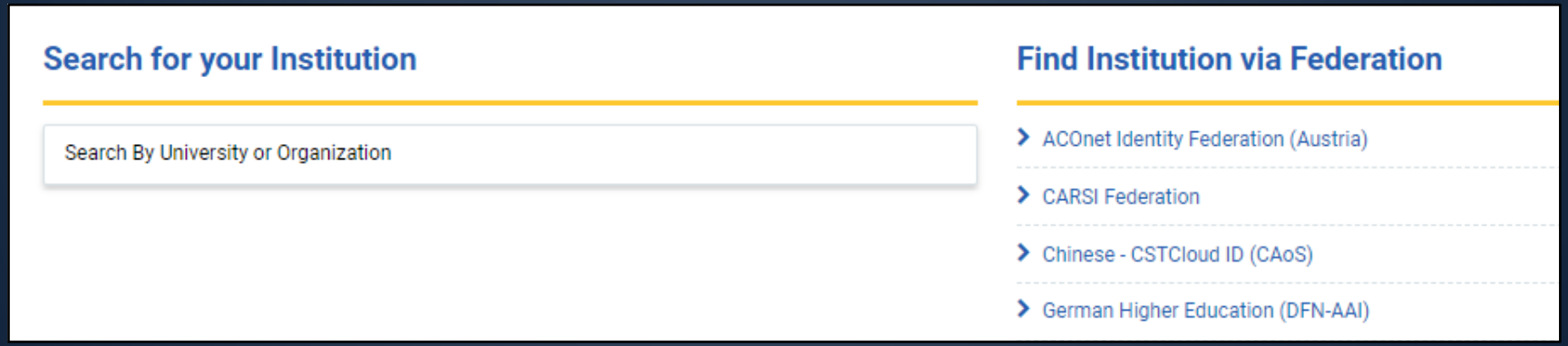
远程访问

Step 2
点击右侧的CARSI Federation展开已订购数据库的成员高校名单



远程访问

Step 3

点击所在学校的名称进入认证页面，登陆后即可在校外访问ACS电子期刊和图书资源

ACS Publications
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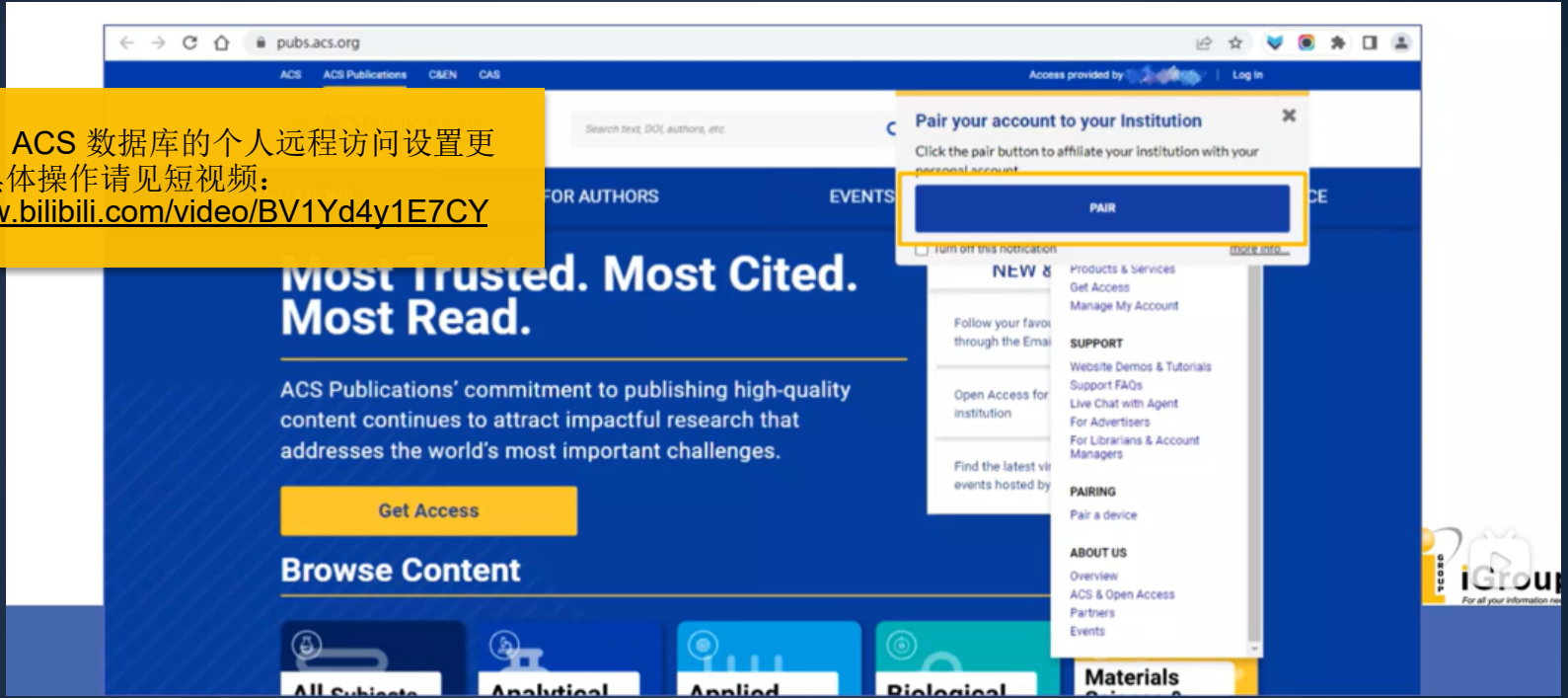
个人远程访问设置

2022年起，ACS 数据库的个人远程访问设置更加简单。具体操作请见短视频：
https://www.bilibili.com/video/BV1Yd4y1E7CY



* 设置后四个月内回到IP范围内再次认证！
* 请保护账号信息、合理利用远程访问功能并避免过量下载导致远程访问时用的IP被封。

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ACS Publications
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ACS资源介绍

ACS Publications 数据库资源

https://pubs.acs.org

ACS 美国化学会成立于 1876 年，现已成为世界上最大的科技学协会之一，拥有超过 15 万会员。

ACS 数据库学术资源包含 80 多种电子期刊，1700 多本电子图书，化学与工程新闻，试剂参考工具书，写作指南等。

全库文章超过 150 万篇，涵盖了 20 多个与化学相关的研究领域。

ACS Journals
电子期刊

ACS eBooks

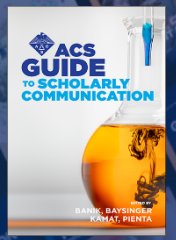
ACS eBooks
电子图书

ACS IN FOCUS

ACS In Focus
系列电子书

C&EN 化学与
工程新闻

ACS 试剂化学品
参考工具书



ACS Guide
学术交流指南

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WE COVER EVERY ASPECT OF CHEMISTRY

ACS 的很多期刊是跨学科的，涵盖了广泛的研究领域课题的前沿研究成果。研究需要寻求的答案可能不仅限于一种 ACS 期刊。

ACS 期刊涵盖的学科领域包括但不限于：

- **传统化学二级学科及相关学科**

无机化学 有机化学 物理化学 分析化学
分子生物学 环境科学与工程 材料科学与工程 农学与食品科学

- **近年新刊涉及的交叉学科**

晶体学 绿色化工 纳米技术 清洁能源 地球化学
化学信息学 生物材料 临床化学 药理学 电化学

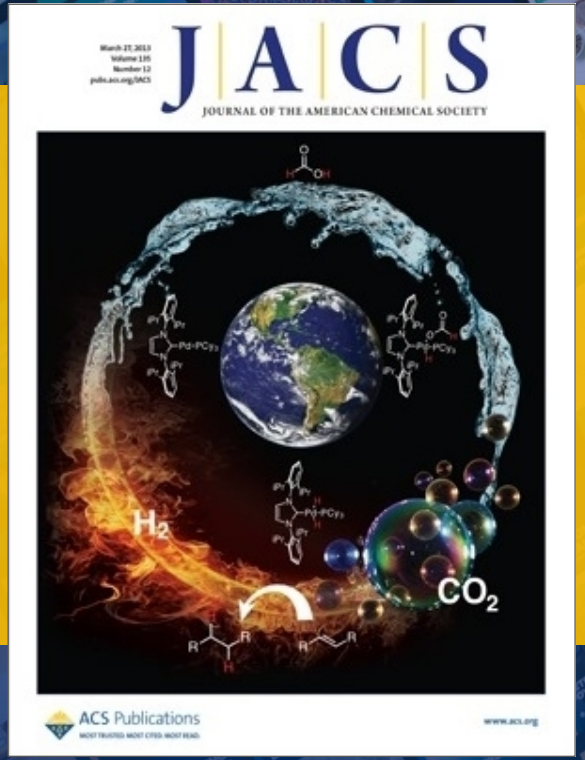
Journal of the American Chemical Society 美国化学会志

Impact Factor ＞ 14 | Annual Citations ＞ 560K

美国化学会志　JACS 创刊于 1879 年，是美国化学会的旗舰期刊，也是世界上所有化学和科学交叉领域的杰出期刊。

JACS 是化学领域里被引用次数最多的跨学科化学期刊，目前每年发表大约 2500 篇科研文章，每周出版一期。

发表化学各个领域里顶尖的基础和应用研究成果。



期刊收录研究方向：跨学科化学（包括生物化学、药物化学、物理化学等）

Indexed in: CAS, SCIE, Scopus, PubMed, etc.

ACS Publications
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Chemical Reviews 化学评论

Impact Factor ＞ 50 | Annual Citations ＞ 230K

Chemical Reviews 是最受推崇同时也是排名最高的期刊之一，涵盖了化学学科所有的研究领域，为有机化学，无机化学，物理化学，分析化学，理论化学和生物化学各领域的重要研究提供全面，权威，关键和可读性强的综述文章。

除了综述文章以外，期刊定期出版权威专题，重点关注新兴研究领域的单一主题或方向。

期刊收录研究方向：跨学科化学（包括生物化学、药物化学、物理化学等）

Indexed in: CAS, SCIE, Scopus, PubMed, etc.

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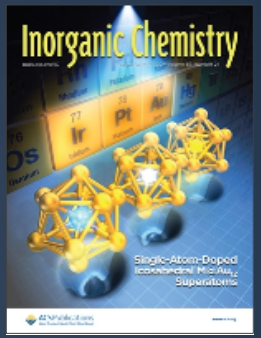
Basic Science of Chemistry 化学的基础科研领域

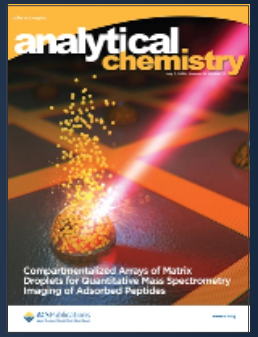
有机化学

有机快报

有机工艺



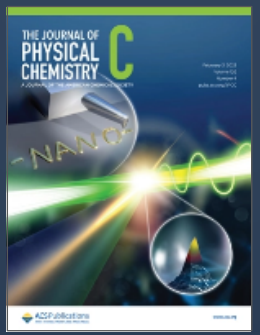
无机化学



分析化学

物理化学 A

物理化学 B



物理化学 C

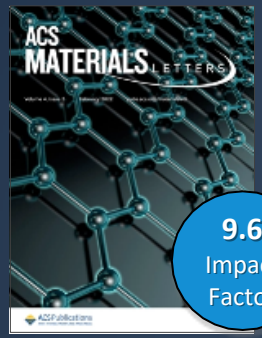
物理化学快报

化工研究

Materials Science & Engineering 材料科学与工程

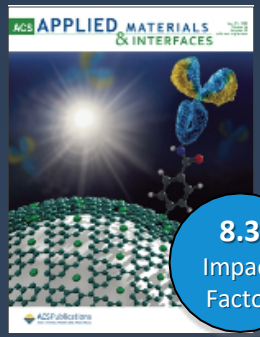
7.2 Impact Factor

材料化学



9.6 Impact Factor

材料快报



8.3 Impact Factor

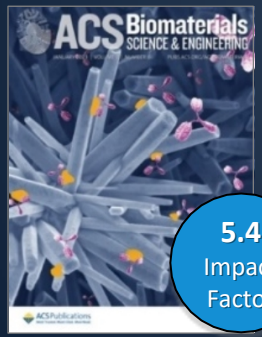
应用材料&界面

15.8 Impact Factor

纳米材料

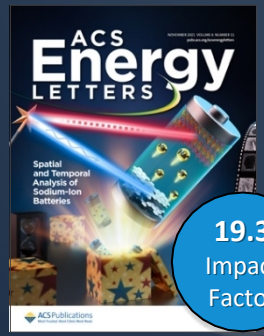
5.1 Impact Factor

高分子材料



5.4 Impact Factor

生物材料

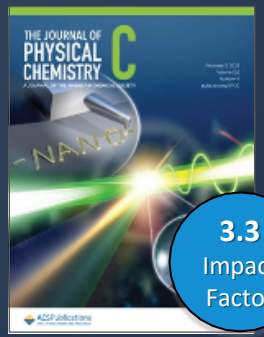


19.3 Impact Factor

能源材料快报

11.3 Impact Factor

催化科学



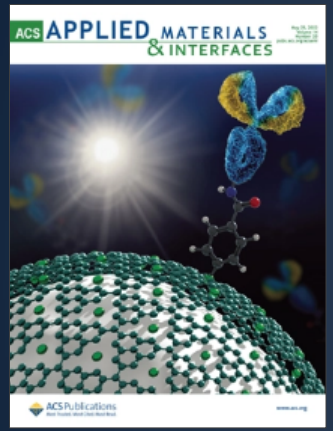
3.3 Impact Factor

材料物理化学

14.0 Impact Factor

材料综述

Applied Materials Science & Engineering 应用材料系列期刊

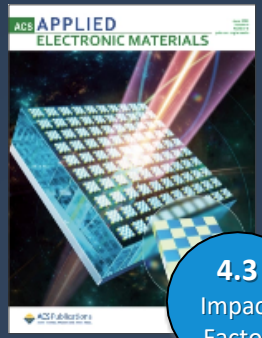


ACS Applied Materials & Interfaces

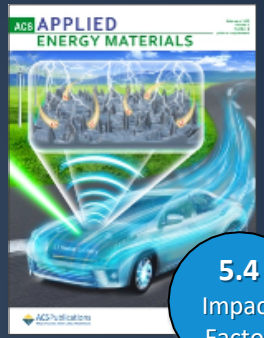
IMPACT FACTOR

8.3

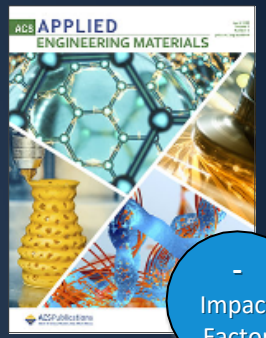
4.6 Impact Factor



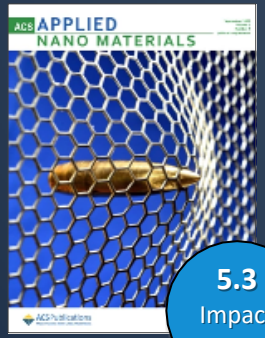
4.3 Impact Factor



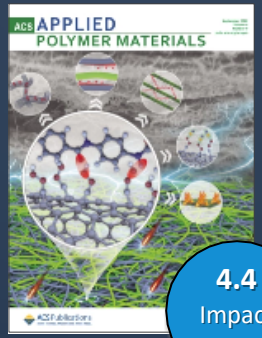
5.4 Impact Factor



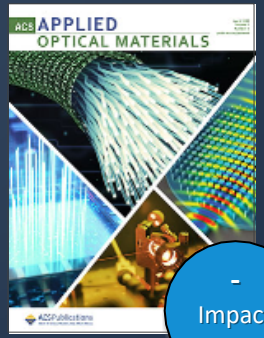
- Impact Factor



5.3 Impact Factor



4.4 Impact Factor



- Impact Factor

ACS AMI 子刊

生物材料 Bio

电子材料 Electronic

能源材料 Energy

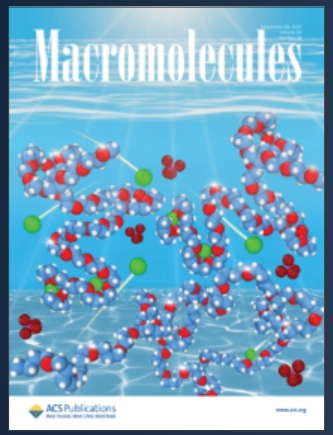
工程材料 Engineering

纳米材料 Nano

聚合材料 Polymer

光学材料 Optical

Polymer Science 高分子科学



Macromolecules

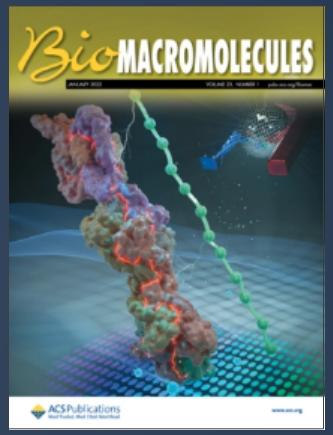
IMPACT FACTOR

5.1

ACS Macro Letters

IMPACT FACTOR

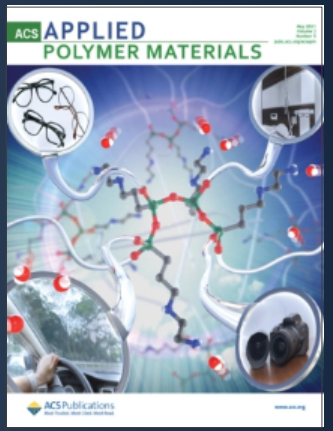
5.2



Biomacromolecules

IMPACT FACTOR

5.5



ACS Applied Polymer Materials

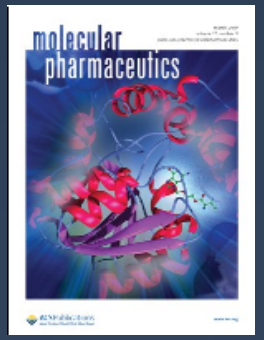
IMPACT FACTOR

4.5

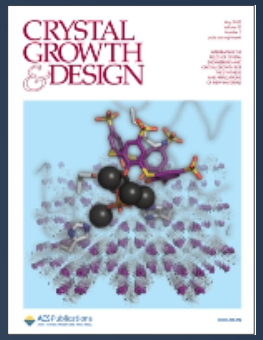
Pharmaceuticals 药物化学

药物化学

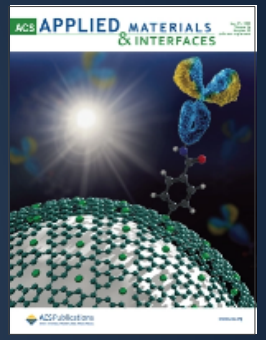
药物化学快报



分子药剂学



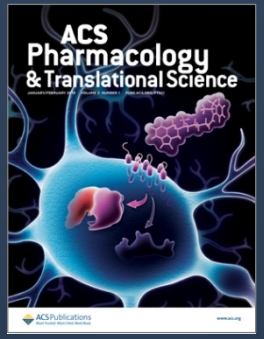
药物制剂



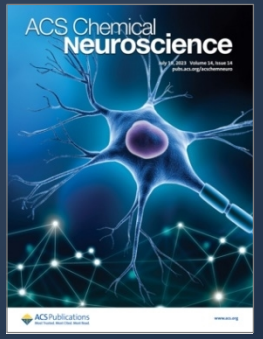
界面现象&应用

天然产物研究

毒理学



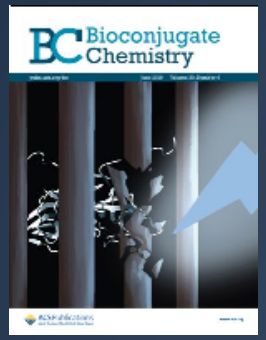
药学与转化科学

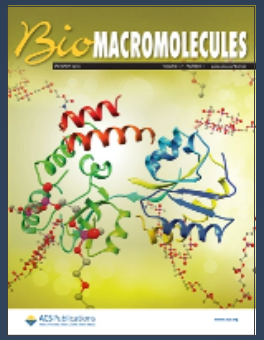


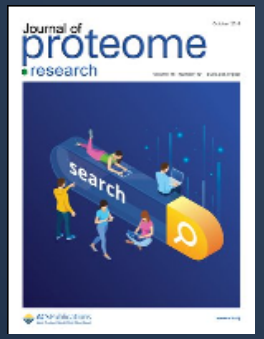
化学神经科学

传染病研究

Biotechnology 生物技术



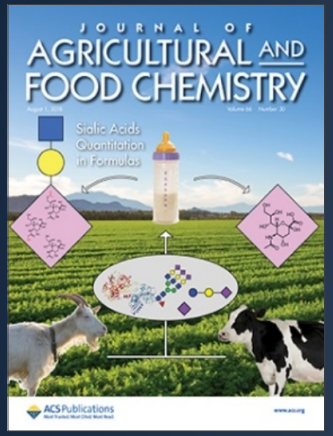




生物技术与生物化学期刊

- ACS Applied Bio Materials
- ACS Biomaterials Science & Engineering
- ACS Chemical Biology
- ACS Chemical Neuroscience
- ACS Synthetic Biology ←
- Biochemistry ←
- Bioconjugate Chemistry ←
- Biomacromolecules ←
- Journal of Agricultural and Food Chemistry
- Journal of Natural Products （与美国生药协会合办）←
- Journal of Proteome Research ←

Agriculture and Food Science 农业与食品科学



Journal of Agricultural and Food Chemistry

IMPACT FACTOR

5.7

ACS Agricultural Science & Technology

IMPACT FACTOR

2.4

ACS Food Science & Technology

IMPACT FACTOR

2.6

Journal of Natural Products

IMPACT FACTOR

3.4

Environmental Science 环境科学与技术

Environmental Science & Technology

IMPACT FACTOR

10.9

Environmental Science & Technology Letters

IMPACT FACTOR

8.9

ACS ES&T Engineering

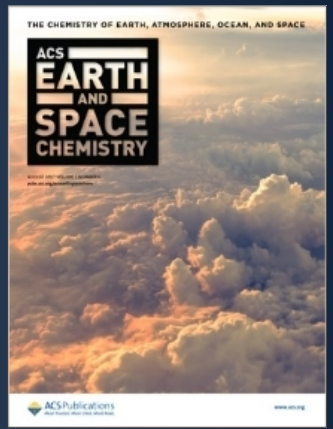
IMPACT FACTOR

7.5

ACS ES&T Water

IMPACT FACTOR

4.9



ACS Earth and Space Chemistry

IMPACT FACTOR

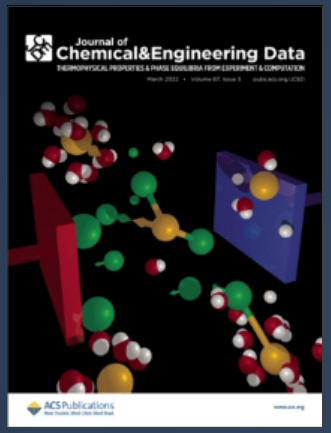
2.9

Energy and Transportation 化工与能源

Industrial & Engineering Chemistry Research

IMPACT FACTOR

3.8



Journal of Chemical & Engineering Data

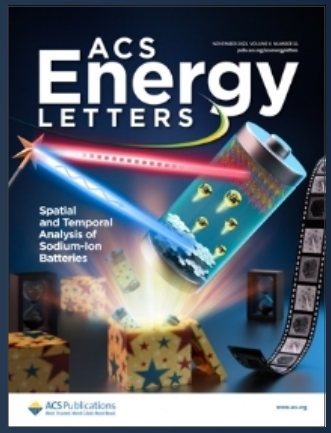
IMPACT FACTOR

2.0

Energy & Fuels

IMPACT FACTOR

5.2



ACS Energy Letters

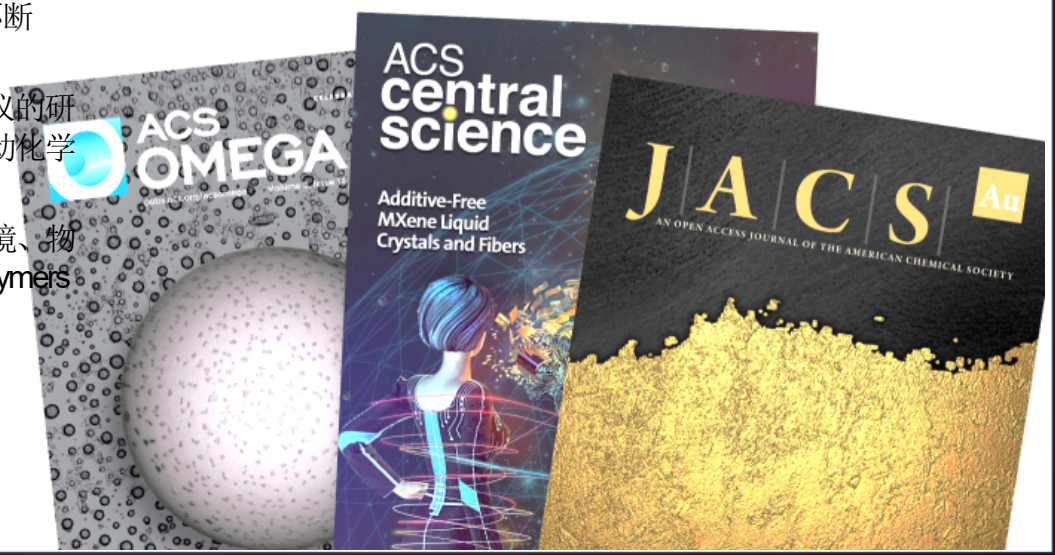
IMPACT FACTOR

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

C&EN Global Enterprise

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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 Symposiom 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
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- 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。

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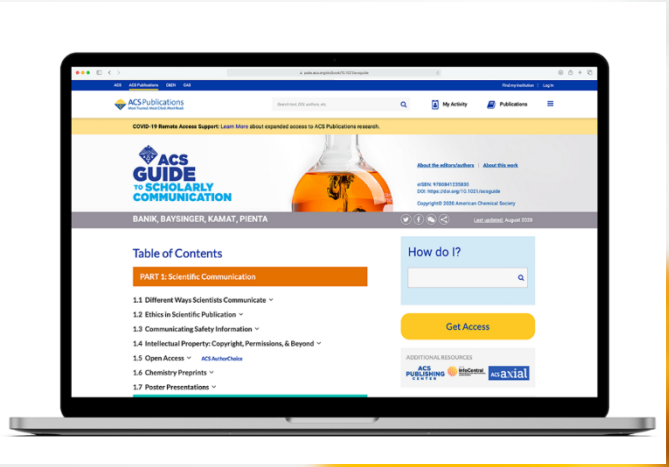
ACS GUIDE TO SCHOLARLY COMMUNICATION

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 的实施准测。

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

- **C&EN Global Enterprise** 是美国化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。

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