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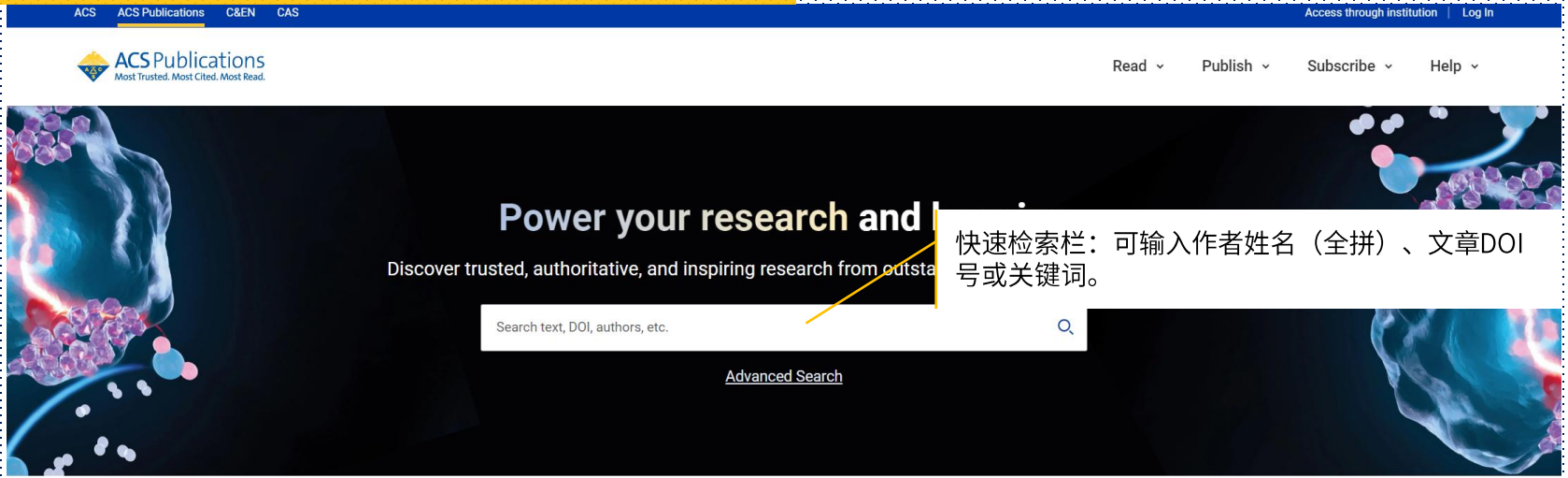

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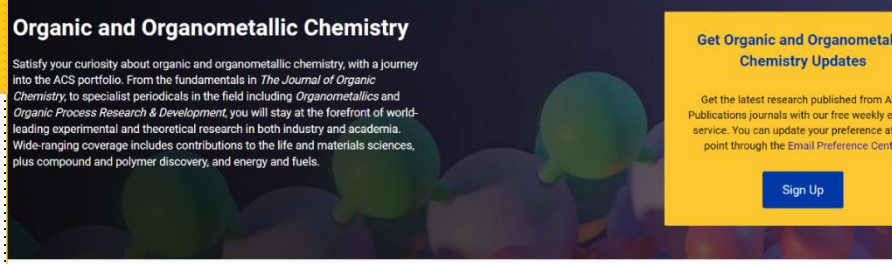

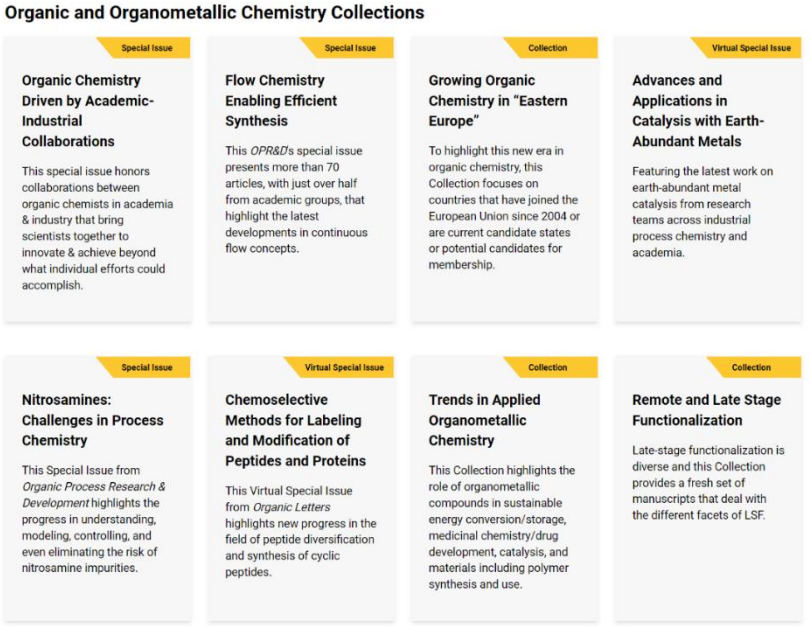

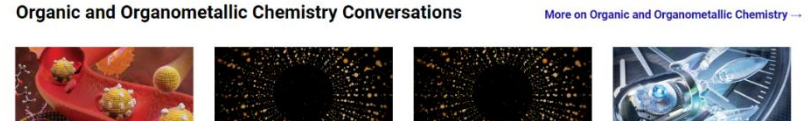

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This Virtual Special Issue from *Organic Letters* highlights new progress in the field of peptide diversification and synthesis of cyclic peptides.

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Trends in Applied Organometallic Chemistry

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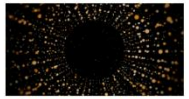

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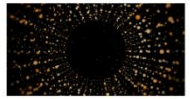

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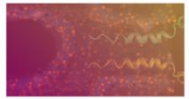

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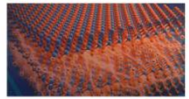

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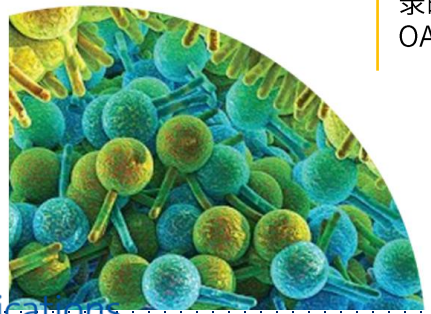

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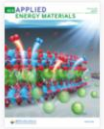

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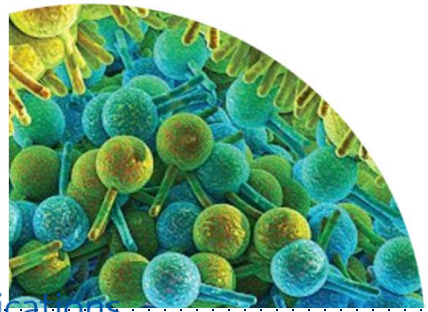

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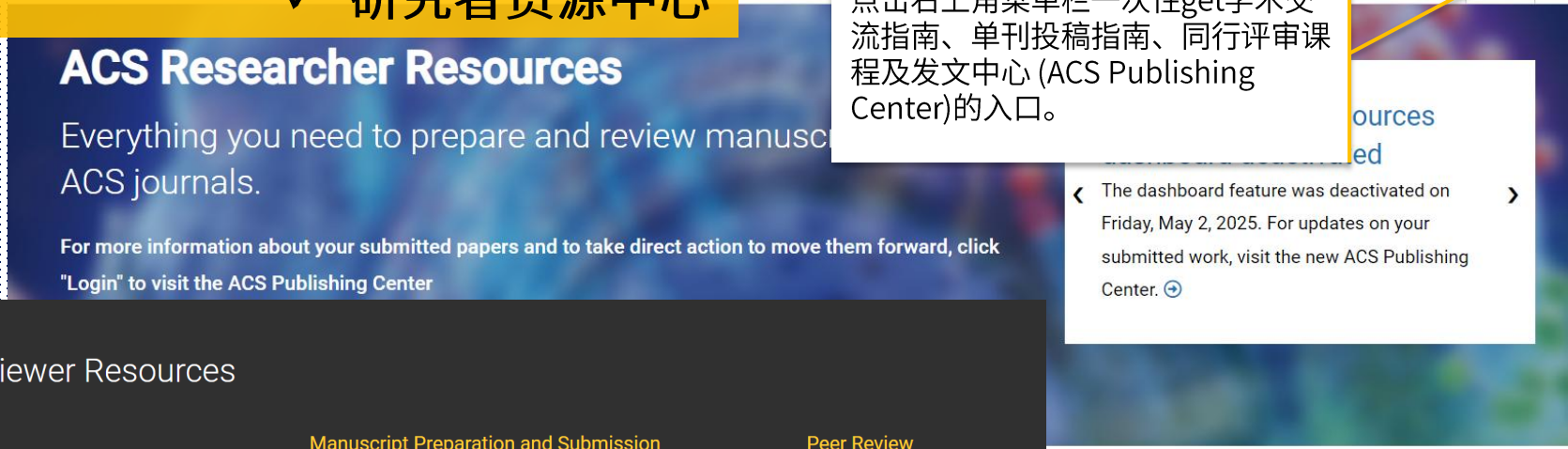

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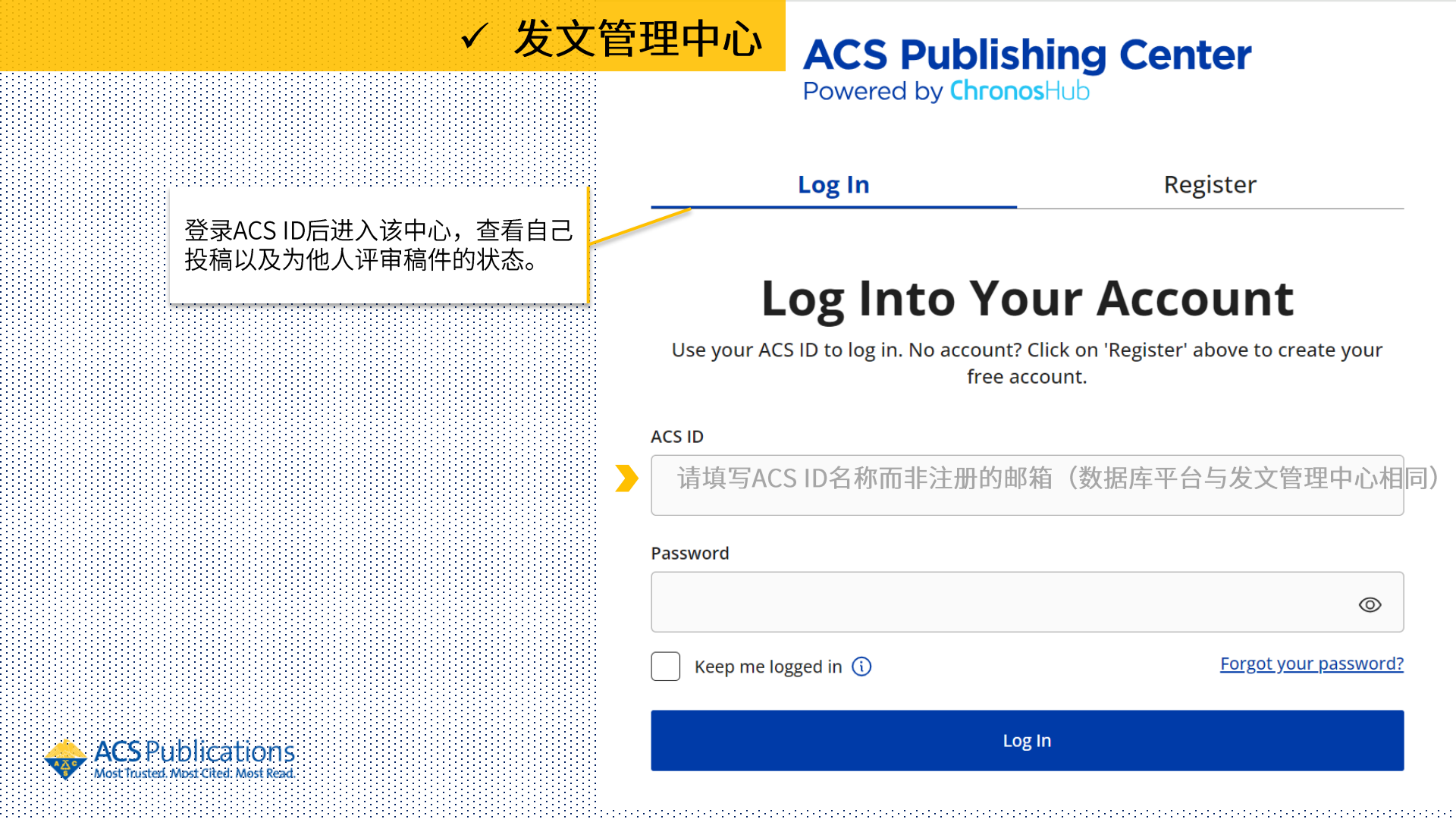

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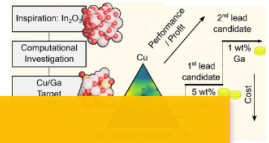

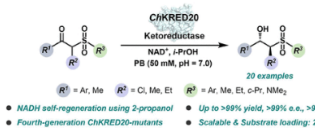

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Mingliang Shi, ... and Na Wang*

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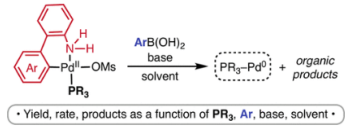

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Robert M. Wolesensky, ... and ...

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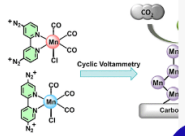

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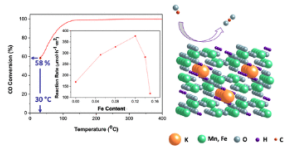

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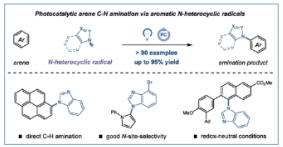
Isabel Gómez-Recio, ... and José J. Calvino*

December 1, 2021



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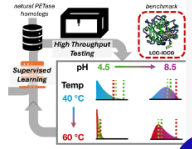
Minxu Shi, ... and Xiaheng Zhang*

September 20, 2025



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

Journal of the American Chemical Society 2024, 146, 30, 20539-20543 **(Communication)**
Publication Date (Web): July 23, 2024

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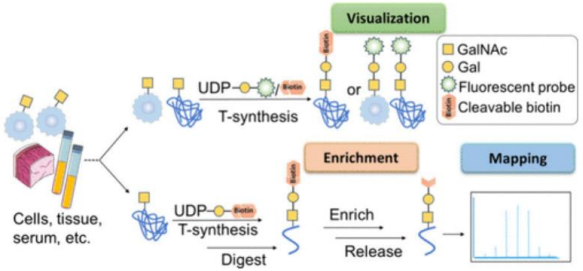

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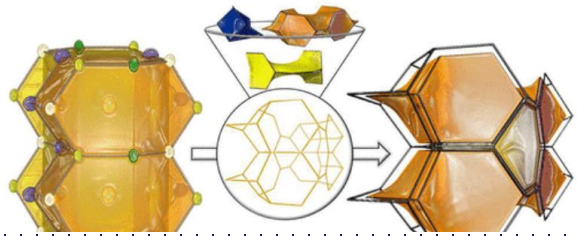

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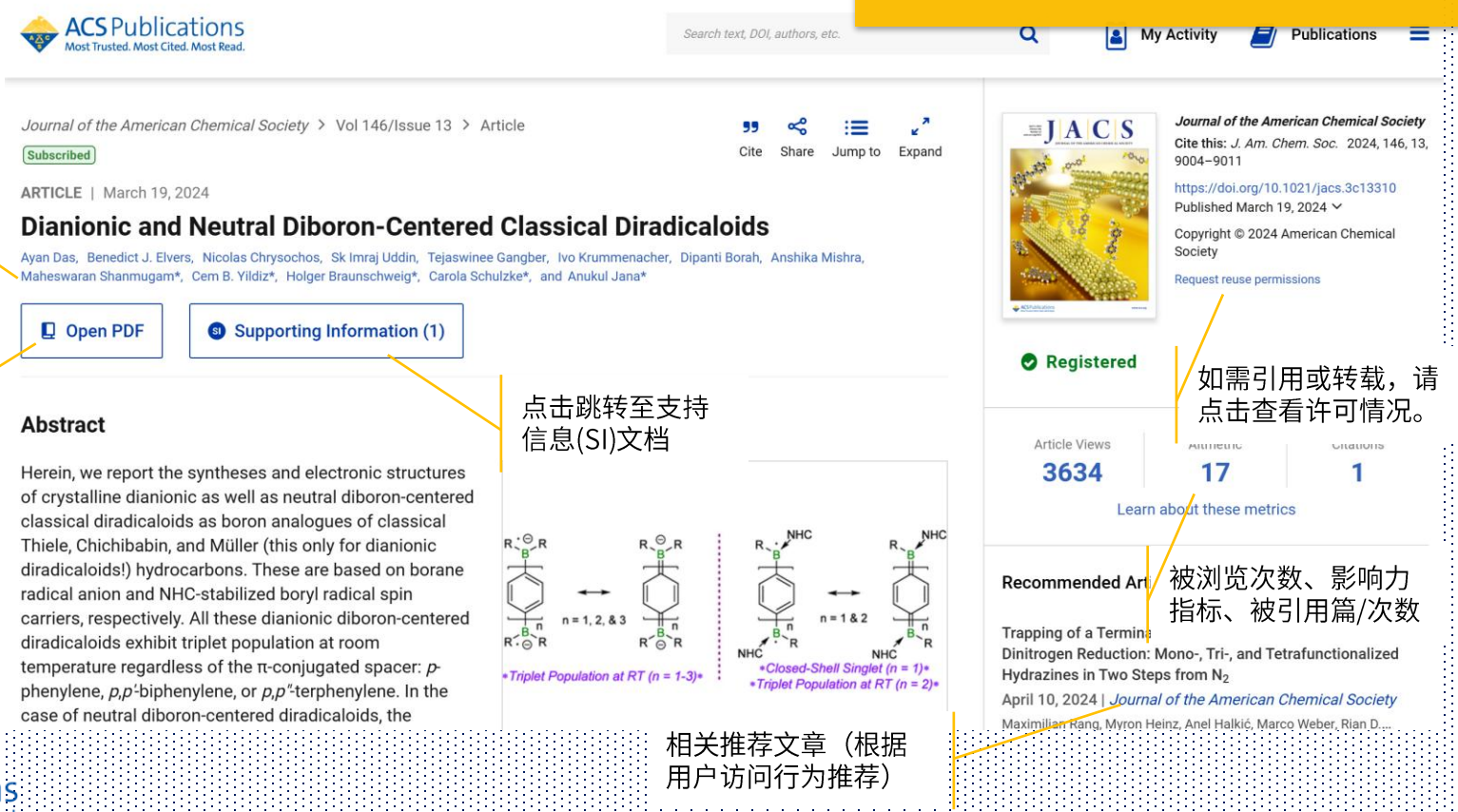

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Patrick Pfaff[1,*], Kusal T. G. Samarasinghe[2,+], Craig M. Crews[2,3,4] and Erick M. Carreira[1]

[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

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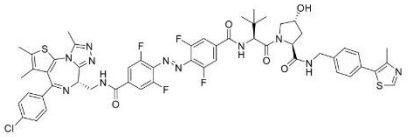
(2S,4R)-1-((S)-2-(4-((E)-(4-((((S)-4-(4-chlorophenyl)-2,3,9-trimethyl-6H-thieno[3,2-f][1,2,4]triazolo[4,3-a][1,4]diazepin-6-yl)methyl)carbamoyl)-2,6-difluorophenyl)diazenyl)-3,5-difluorobenzamido)-3,3-dimethylbutanoyl)-4-hydroxy-N-(4-(4-methylthiazol-5-yl)benzyl)pyrrolidine-2-carboxamide (photoPROTAC-1)



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).

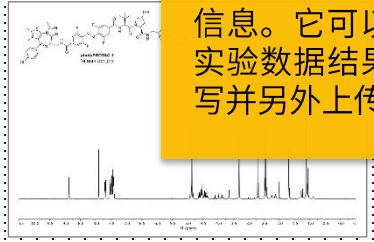
^{1}H NMR (500 MHz, CD_3OD) δ = 8.87 (s, 1H), 7.70 (dd, J = 5.1, 1.6 Hz, 2H), 7.67 (dd, J = 5.1, 1.6 Hz, 2H), 7.52 (d, J = 8.5 Hz, 2H), 7.48 (d, J = 8.5 Hz, 2H), 7.44 – 7.40 (m, 4H), 4.91 (s, 1H), 4.65 – 4.50 (m, 4H), 4.43 (dd, J = 13.6, 7.0 Hz, 2H), 4.35 (d, J = 15.4 Hz, 1H), 3.98 (d, J = 11.0 Hz, 1H),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

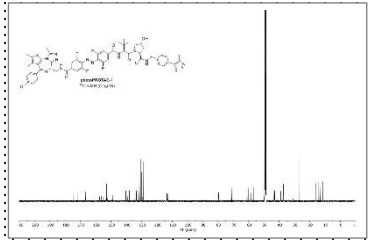
^{13}C NMR (126 MHz, CD_3OD) δ = 174.4, 172.0, 166.8, 166.7, 166.5, 157.4, 156.1, 155.3, 153.0, 152.2, 149.0, 140.3, 139.2, 138.1, 138.1, 134.3, 133.5, 133.4, 133.3, 133.3, 132.0, 132.0, 131.5, 131.4, 131.3, 130.4, 129.8, 129.0, 113.4, 113.1, 71.1, 60.9, 59.9, 58.2, 56.8, 43.7, 42.9, 39.0, 37.2, 27.1,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

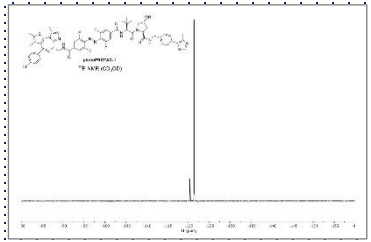
19F NMR (471 MHz, CD_3OD) δ = -121.4, -121.5.

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

ESI-HRMS: calcd. for $C_{56}H_{51}ClF_4N_{11}O_5S_2$ $[M+H]^+$ 1108.3135, found 1108.3144.







Supporting Information是什么?

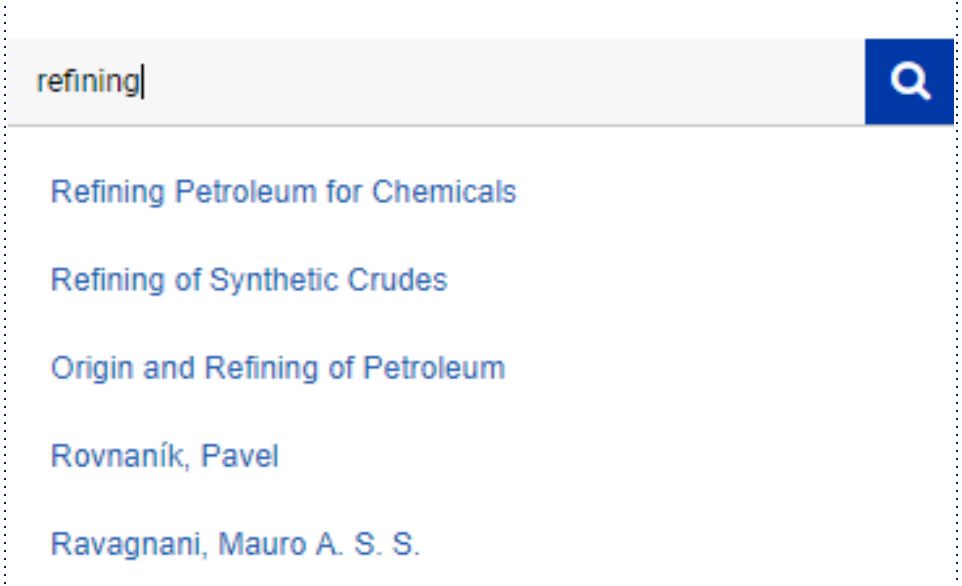
SI是文章的帮助信息，为编辑、同行评审和读者提供精确和完整的实验步骤和图文信息。它可以是分子结构图、实验参数、实验数据结果，分析图谱等，投稿时需撰写并另外上传。

开启高级检索并保存检索式

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。



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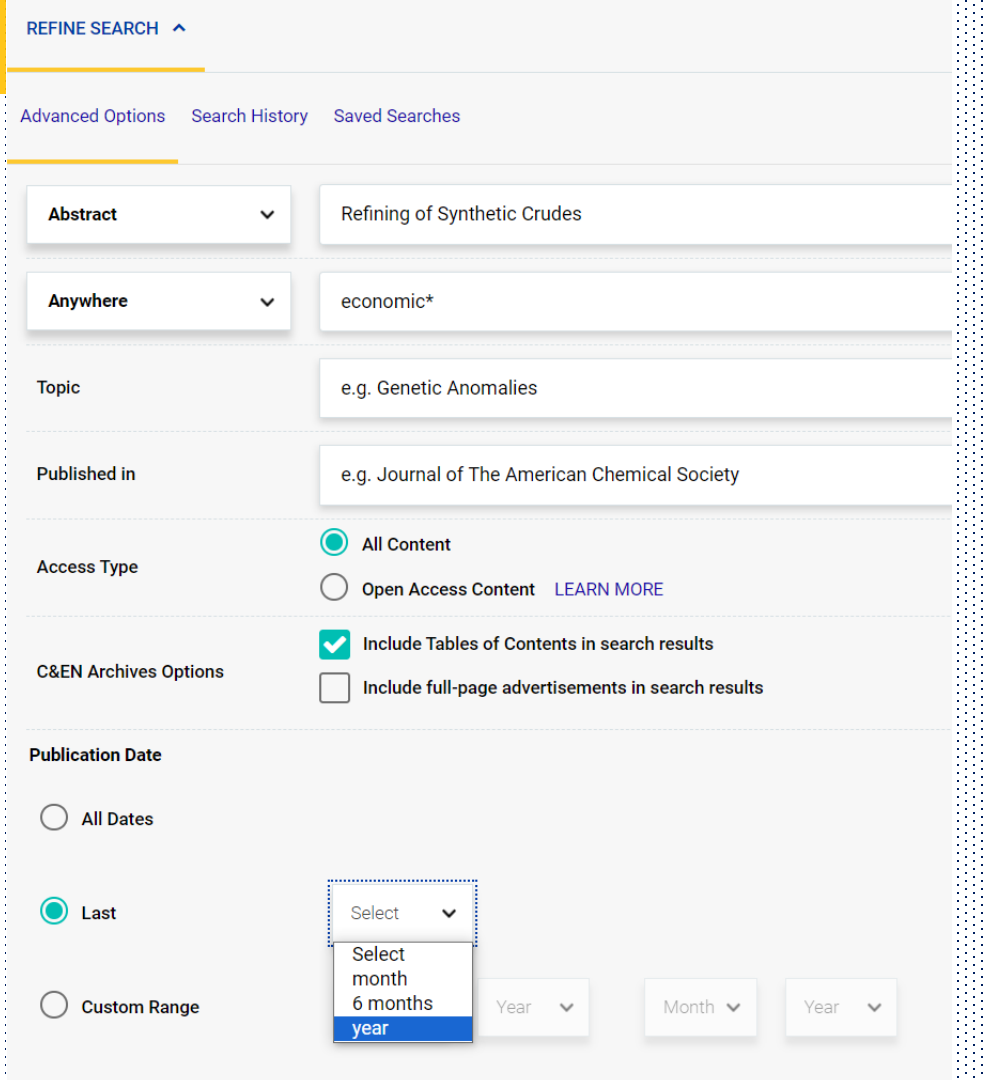
Step 2-筛选

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；或添加多个检索词。再次点击右下角的Search。



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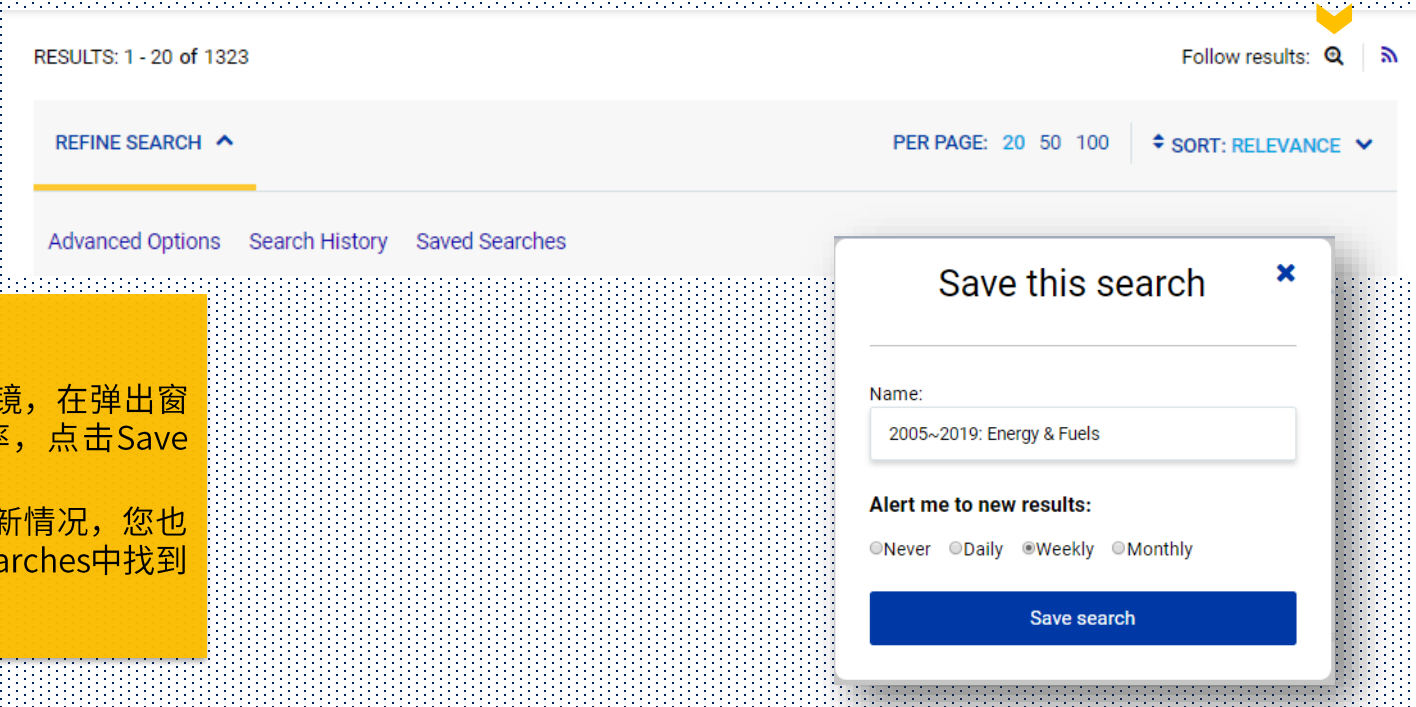

Step 3-保存

点击最终检索结果右上方的放大镜，在弹出窗口为检索式命名并设置提醒频率，点击Save search保存。

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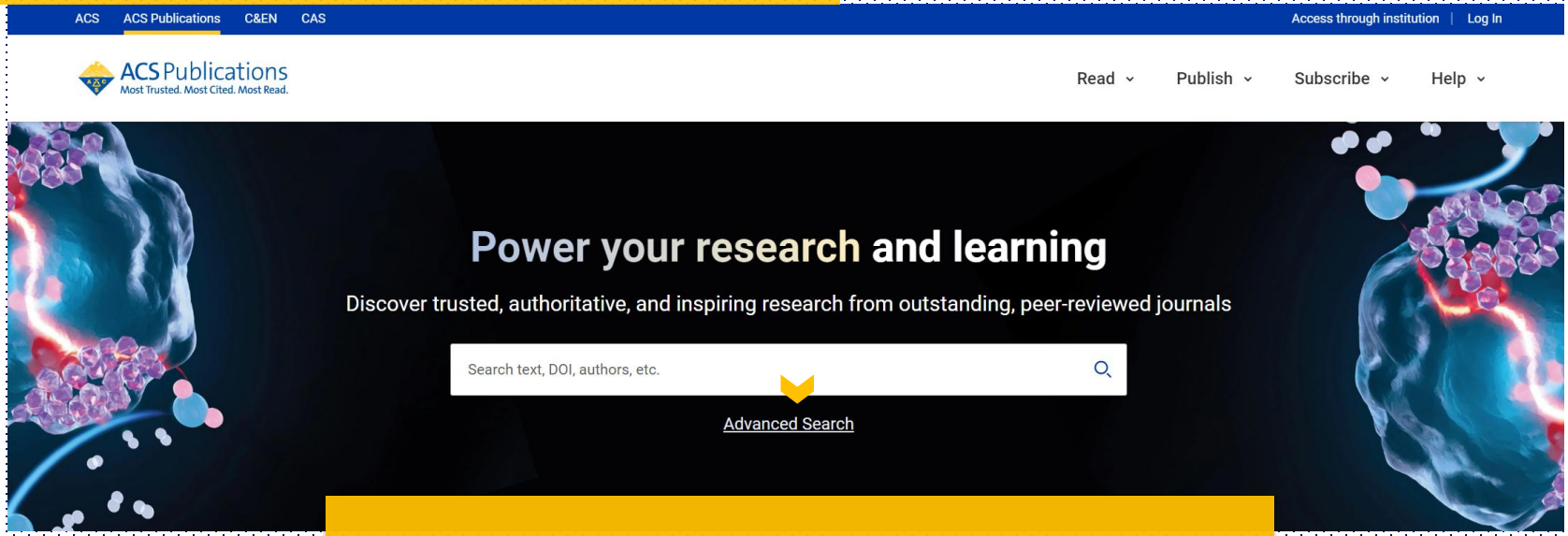
检索注意事项



- ✓ 点击首页Advanced Search可直接进入高级检索；
- ✓ 检索DOI号时，前面请勿带http://dx.doi.org/；
- ✓ 如需精准检索，请在词组外添加半角双引号；
- ✓ 一旦使用精准检索，检索词中间不可添加模糊检索和词根检索的标记（?和*）
- ✓ 可使用大写的逻辑词（AND、OR和NOT）来连接多个检索词，如果不加逻辑词，默认检索词之间为OR的关系。

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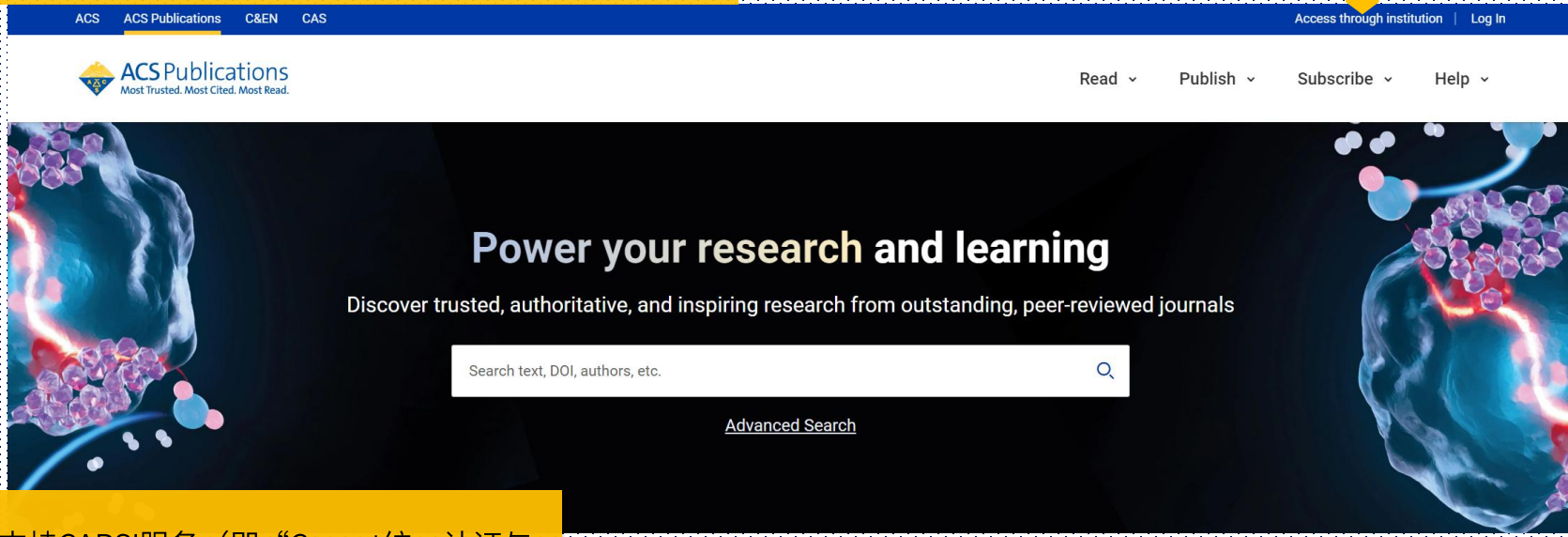

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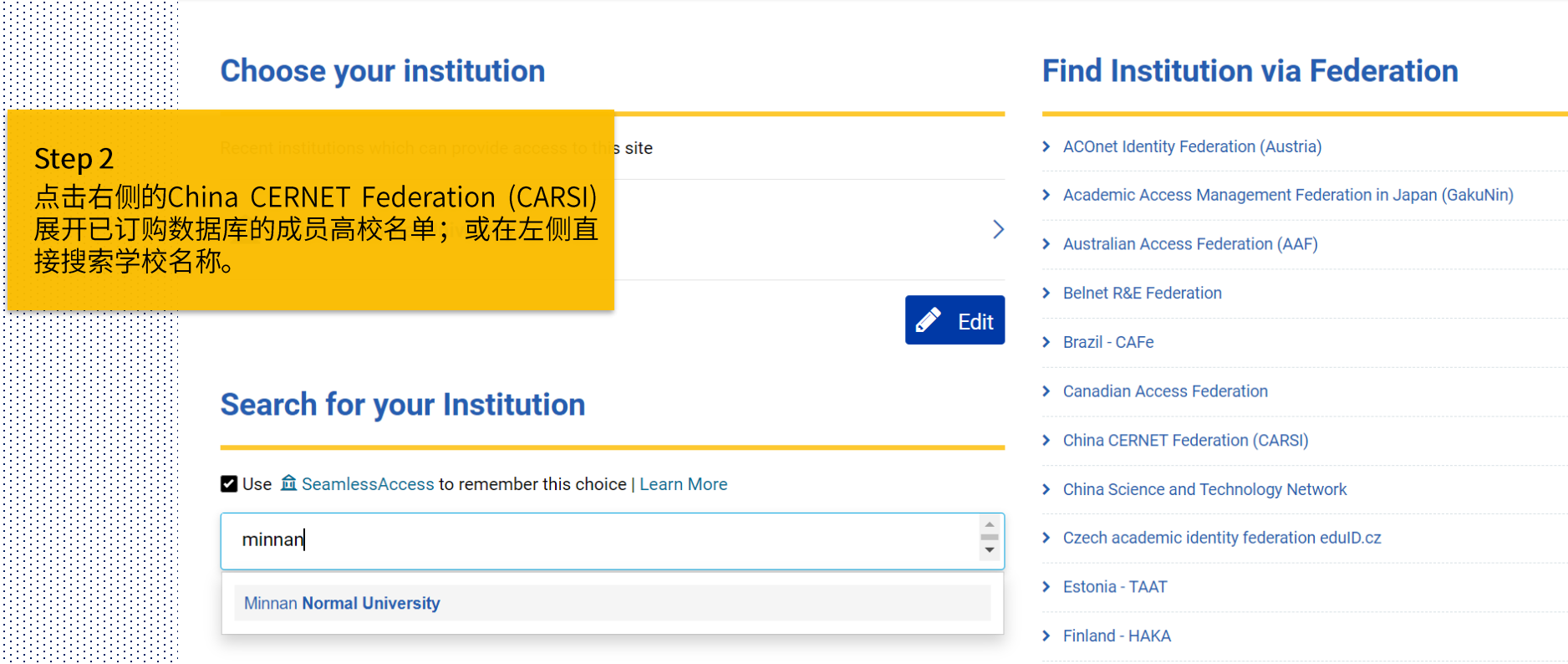

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Step 3

点击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（但关联IP仍在校外）。

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ACS Publications 资源介绍

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 (C&EN) 杂志、试剂参考工具书、学术写作与交流指南等。

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。

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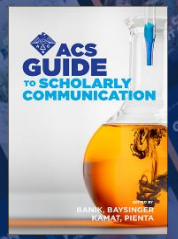

学术写作与交流指南

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ACS的许多期刊是跨学科的，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。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 生物医学工程 临床化学 药理学 电化学 营养学

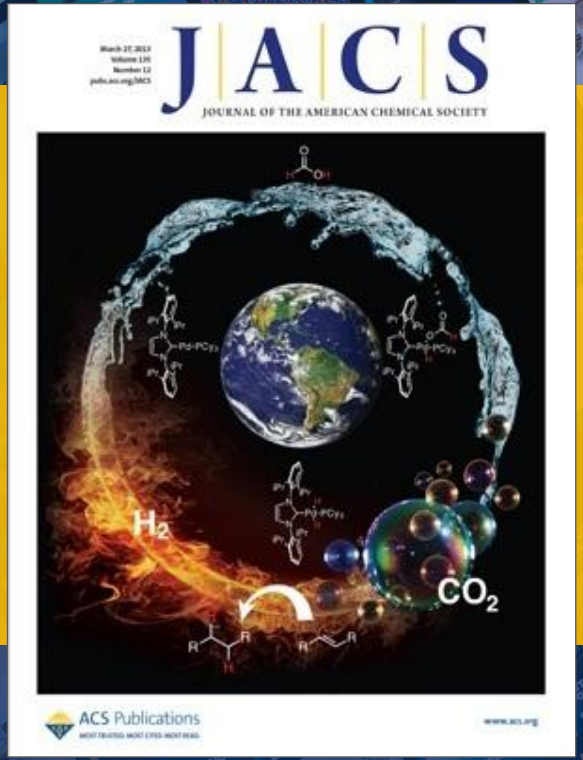
Journal of the American Chemical Society 美国化学会志

Impact Factor ＞ 14 | Annual Citations ＞ 560K

美国化学会志（简称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）

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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）

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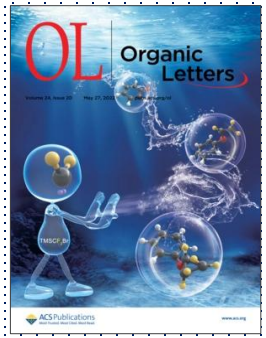
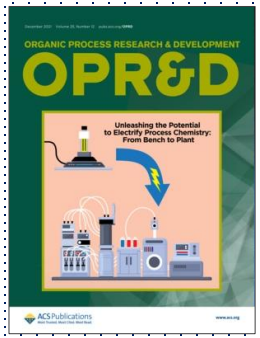
化学的基础科研领域

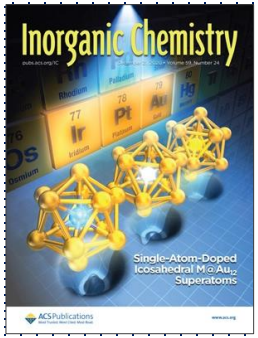
有机化学



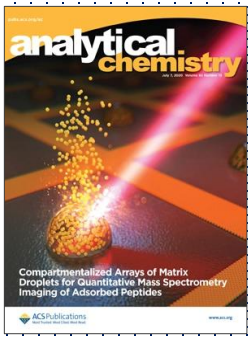
有机快报



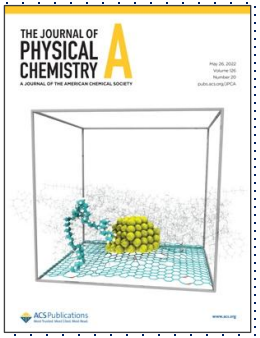
有机工艺



无机化学

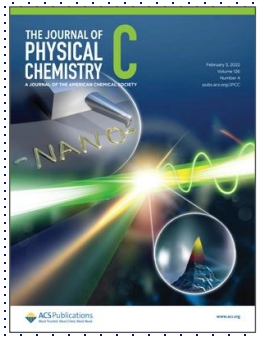


分析化学

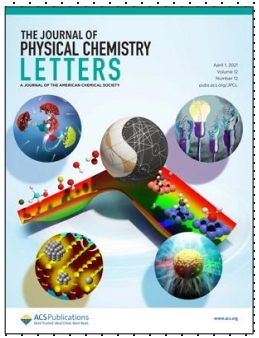


物理化学 A

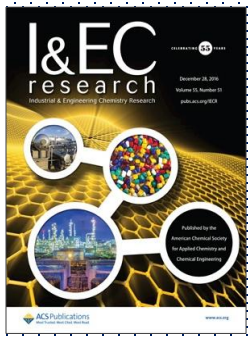
物理化学 B



物理化学 C

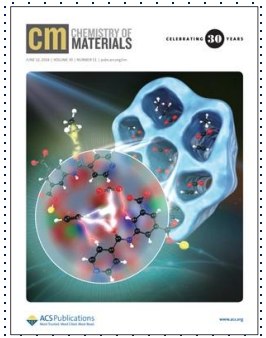


物理化学快报

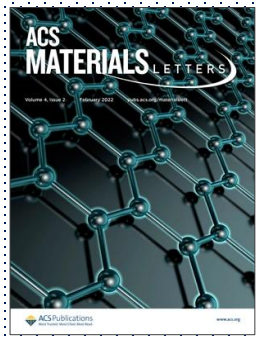


化工研究

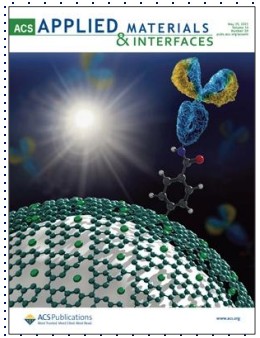
材料科学与工程



材料化学

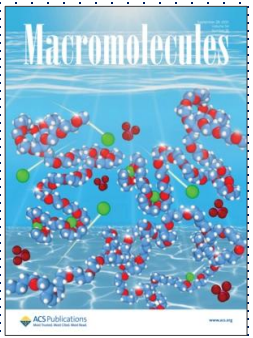


材料快报

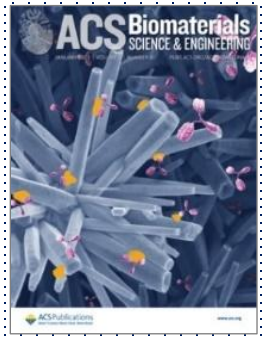


应用材料&界面

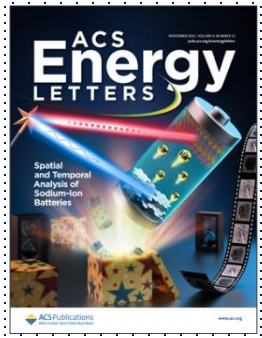
纳米材料



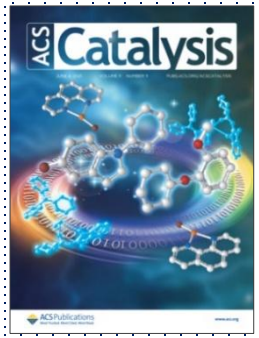
高分子材料



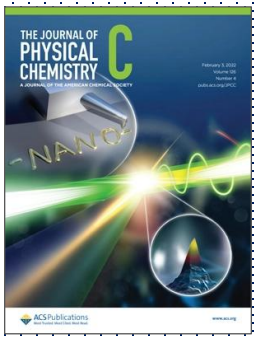
生物材料



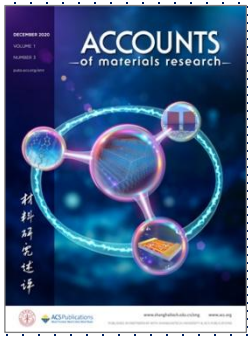
能源材料快报



催化

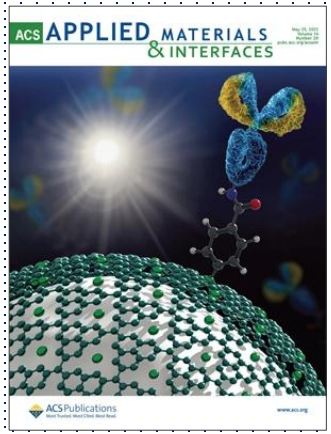


材料物理化学



材料综述

应用材料(AMI)系列期刊



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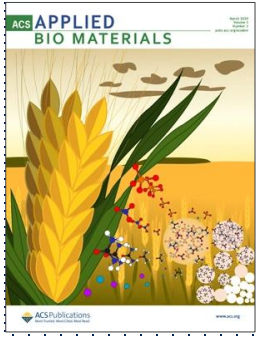
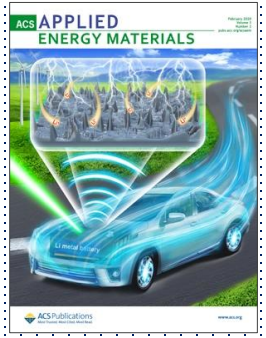
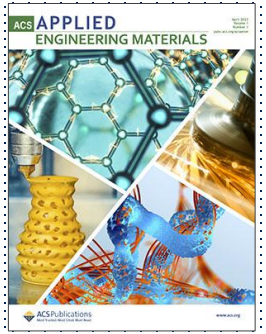
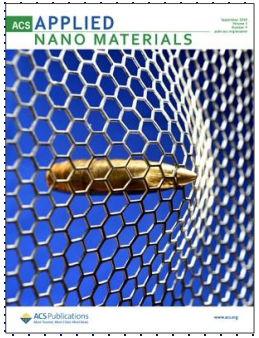
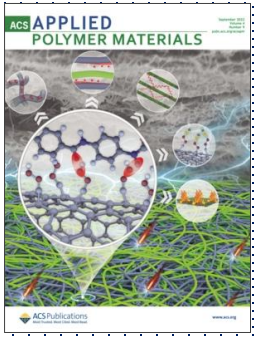
8.2

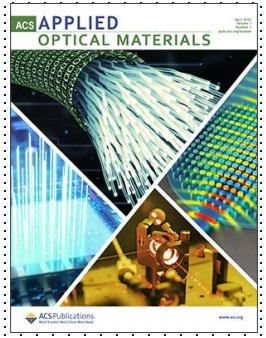












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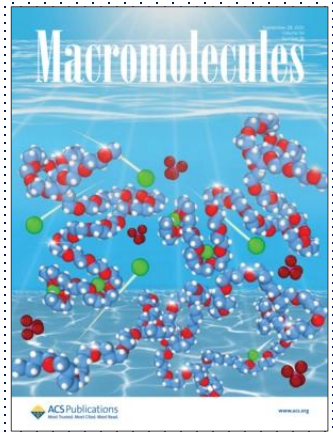
工程材料 Engineering

纳米材料 Nano

聚合材料 Polymer

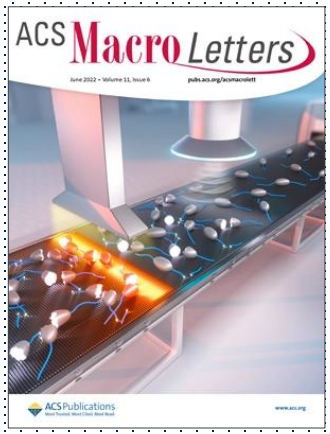
光学材料 Optical

高分子科学



Macromolecules

IMPACT FACTOR
5.2



ACS Macro Letters

IMPACT FACTOR
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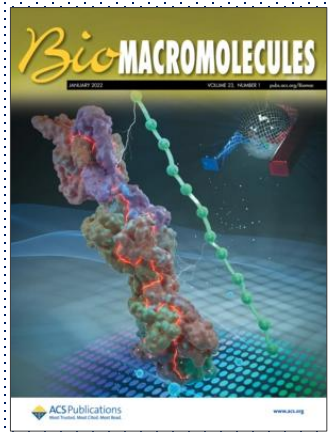

Biomacromolecules

IMPACT FACTOR
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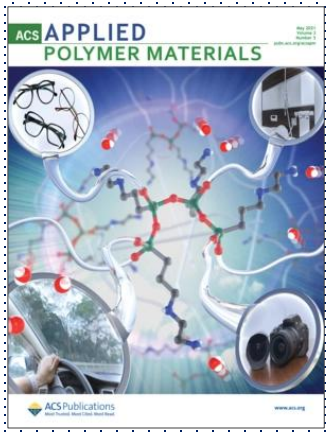


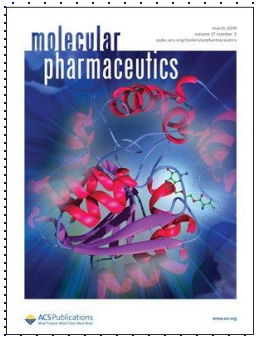
ACS Applied Polymer Materials

IMPACT FACTOR
4.8

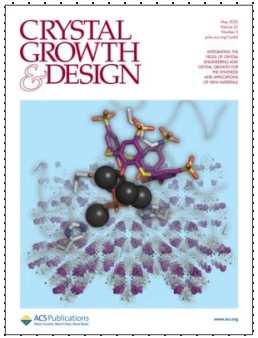
药学

药物化学

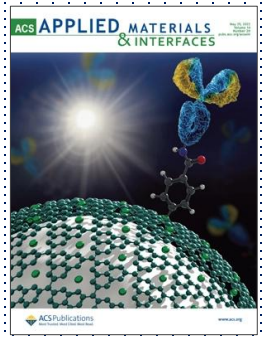
药物化学快报



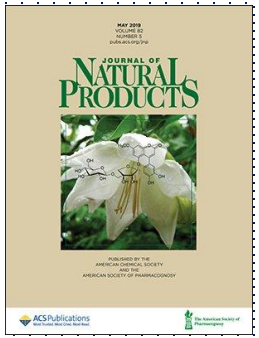
分子药剂学



药物晶型

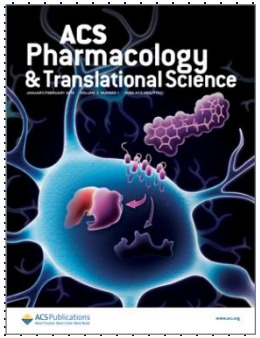


界面现象

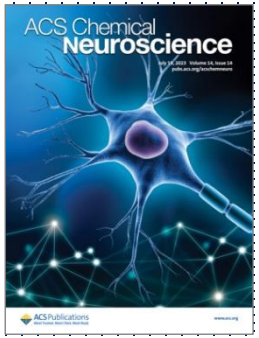


天然产物研究

毒理学



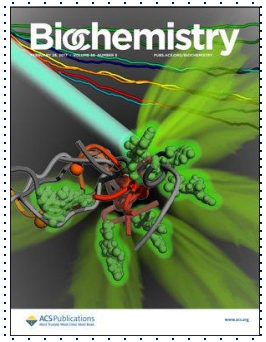
药理学

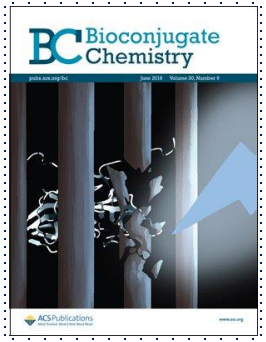


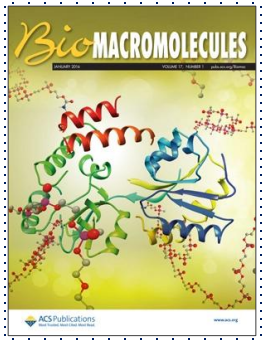
化学神经科学

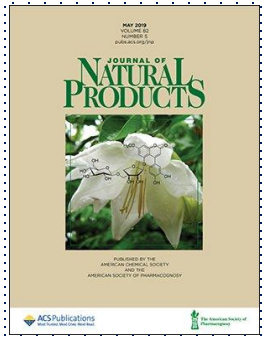
传染病研究

生物技术



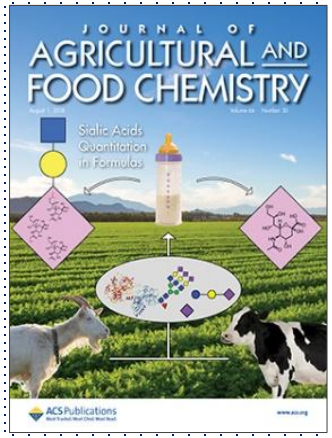






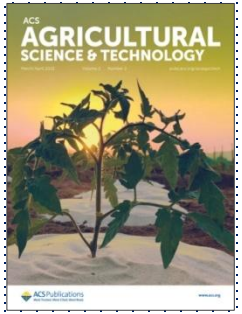
- ACS Applied Bio Materials
- ACS Biomaterials Science & Engineering
- ACS Chemical Biology
- ACS Chemical Neuroscience
- ACS Synthetic Biology ←
- Biochemistry ←
- Bioconjugate Chemistry ←
- Biomacromolecules ←
- Journal of Agricultural and Food Chemistry
- Journal of Natural Products（与美国生药协会合办）←
-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

农学与食品科学系列子刊



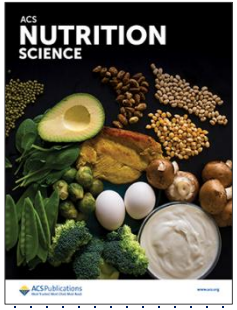
Journal of Agricultural and Food Chemistry

IMPACT FACTOR
6.2



ACS Agricultural Science & Technology

ACS Food Science & Technology

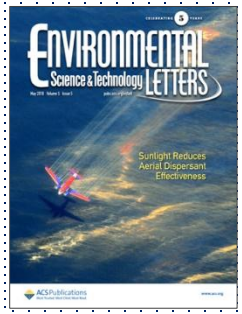


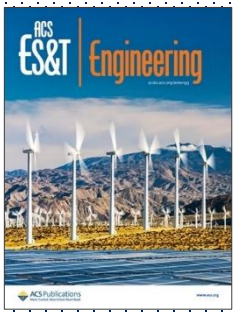
ACS Nutrition Science 2026 new!

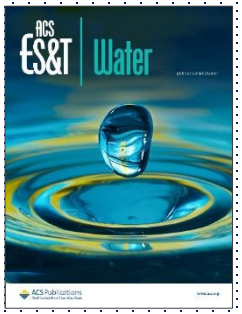
环境科学系列子刊

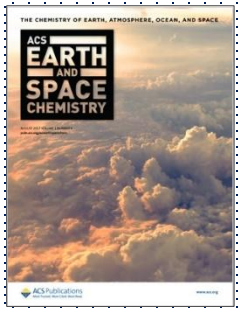
Environmental Science & Technology

11.3



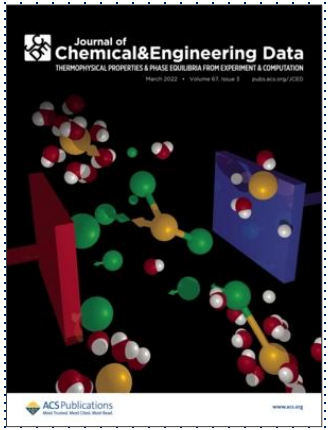




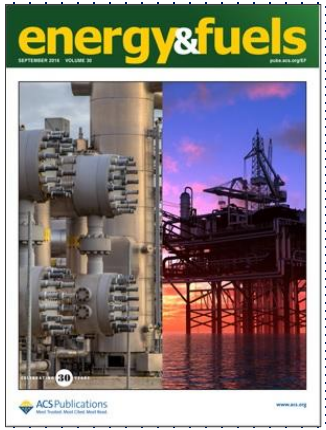


化工与能源工程

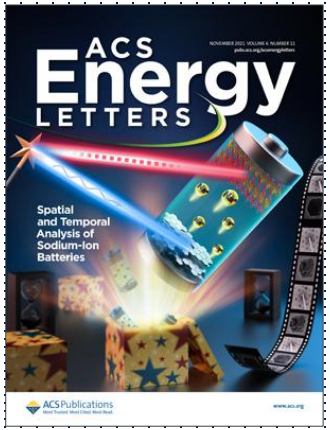
传统化工研究



化工数据



能源与燃料化工



新能源

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。ACS旗下最早的两本全OA期刊是ACS Central Science和ACS Omega。
- 2015年上线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。目前已全部获得影响因子。
- 2023年起与学术机构合作，推出多本全OA期刊，其中Chemical & Biomedical Imaging、Environment & Health、Precision Chemistry 于2025年获得首个影响因子。

Open Access Journals

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

ACS Au Journals 系列期刊：

- 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 与中国学术机构合作的期刊：

Precision Chemistry（中科大）

Environment & Health（生态环境研究中心）

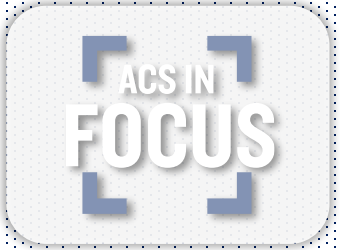
Artificial Photosynthesis（西湖大学）

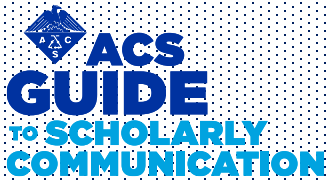
Chemical & Biomedical Imaging（南京大学）

Chem & Bio Engineering（浙江大学）

Polymer Science & Technology（长春应化所）……

ACS Publications数据库除了收录丰富的期刊资源外，还有其它类型的资源，如电子图书、写作与学术交流指南、新闻杂志等。





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- ACS Symposiom Series (1974 - 至今)
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- 填补学生从课堂到期刊文献之间的学习资料空缺。
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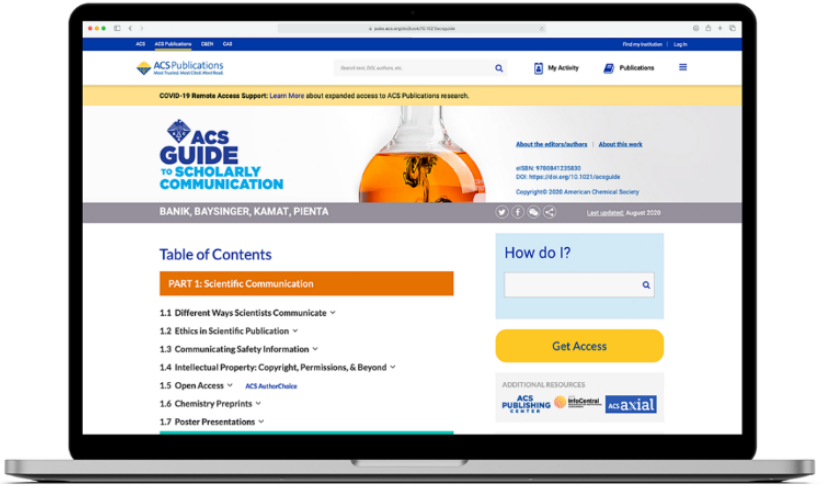
https://doi.org/10.1021/acsguide

- 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

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- 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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