



赋能化学跨界科研——ACS数据库的检索与利用



目录

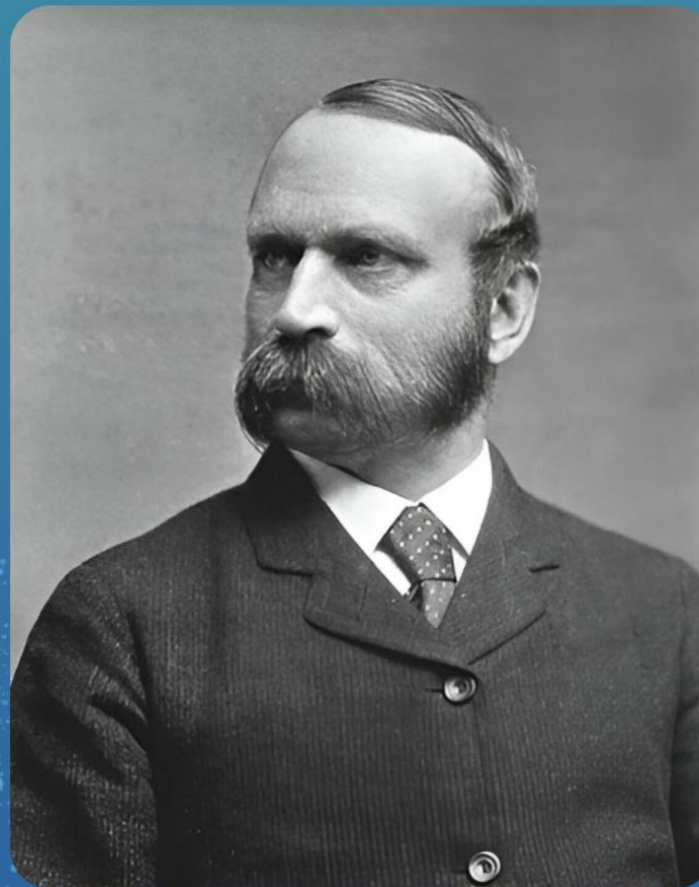
1. 美国化学会ACS简介
2. ACS数据库出版物及学术资源
3. ACS数据库最新平台动态与文献检索



美国化学会ACS简介

April 6, 1876

Charles F. Chandler leads the first organizational meeting of the American Chemical Society at the New York College of Pharmacy. The organizers invite chemists from New York City and the vicinity to attend.



Charles F. Chandler

1870s

1876

1890s

1900s

1910s

1920s

May 4, 1876

Thirty-five chemists hold the founding meeting at the College of Pharmacy of the City of New York, marking the first official American Chemical Society meeting.



The first official ACS meeting

1876

1870s

1876

1890s

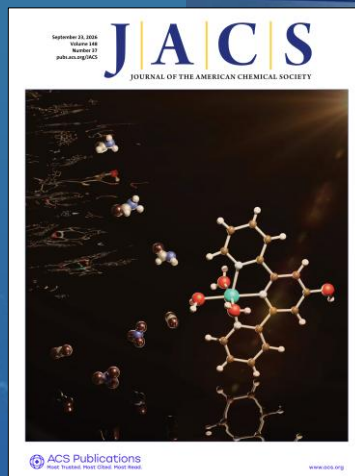
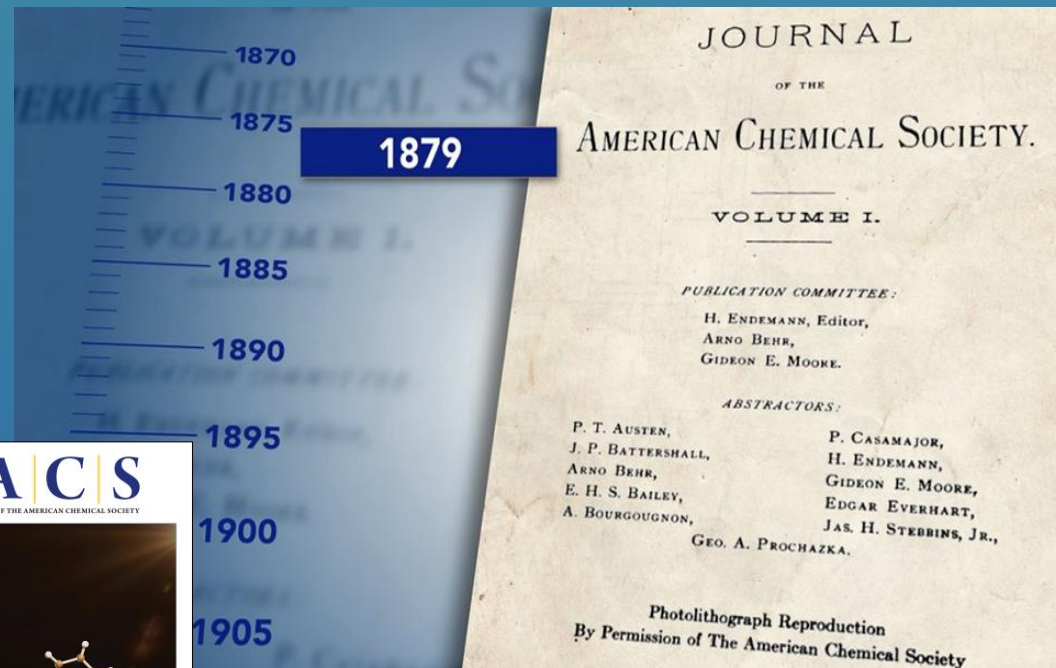
1900s

1910s

1920s

1879

The American Chemical Society begins publishing its flagship journal, *the Journal of the American Chemical Society (JACS)*, in April 1879. The journal's inaugural Editor-in-Chief – Hermann Endemann – leads the journal for one year and then returns briefly in 1881 for an additional year, stewarding the journal that – since 2021 – is led by Professor Erick Carreira.



美国化学会志 JACS

1870s

1879

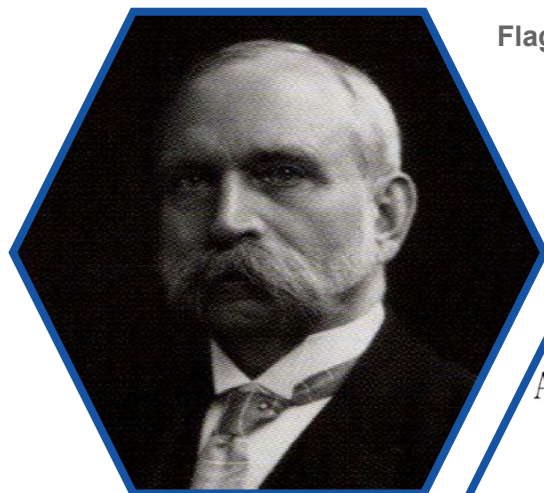
1890s

1900s

1910s

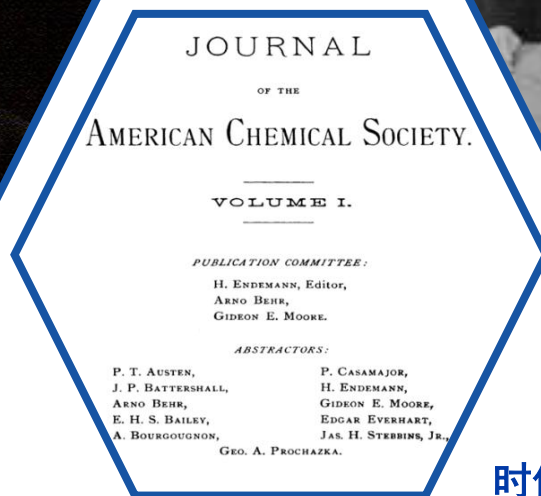
1920s

美国化学会诞生于19世纪



1876年
美国化学会成立
Founded in 1876

1879年
旗舰期刊 **JACS** 创刊
Flagship journal launched in 1879

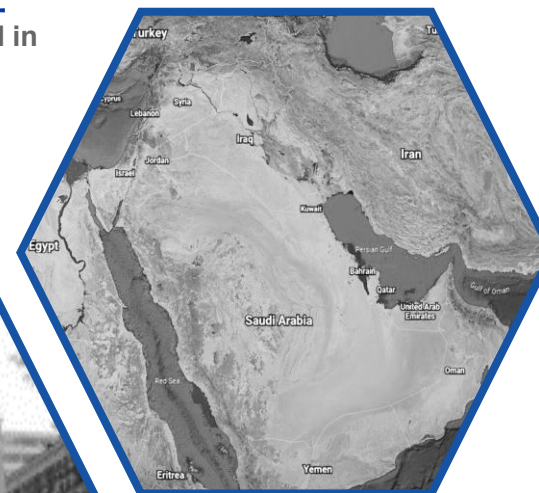


J. Am. Chem. Soc.
1879 1 (1)
DOI:10.1021/ja02143a700



1937年
时任美国总统罗斯福签署国会法案，**ACS**成为联邦特许组织
ACS national charter signed by Roosevelt in 1937

1941年
ACS美国总部建立
Headquarters established in 1941



1993年
首个国际分会成立
First international chapter established in 1993



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ACS Publications 数据库出版物资源

pubs.acs.org

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- 化学与工程新闻
- 试剂标准手册
- 学术交流指南

全库资源超过 **170** 万篇文章，涵盖 **20** 多个与化学相关的研究领域。



ACS Journals
电子期刊



ACS eBooks
电子图书



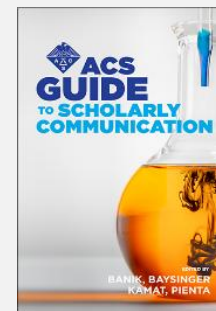
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电子图书



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

多样化的期刊组合

A Diverse Portfolio of Journals

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：

- 无机化学
- 有机化学
- 有机金属化学
- 分析化学
- 物理化学
- 理论与计算化学
- 高分子科学
- 化学教育
- 能源
- 催化
- 材料科学
- 纳米科学
- 农业与食品化学
- 生物与药物化学
- 化学工程与工业化学
- 地球、空间与环境化学



ACS Journals 学术期刊

<https://pubs.acs.org>

出版 90 多种高品质的专业科学期刊

2026年 JCR 期刊引证报告：ACS期刊的影响因子中位数为 5.5，总引用次数超过 510 万。

美国化学会志 JACS 保持化学领域里被引用次数最多的期刊。

部分期刊在各自学科领域内是被引用次数最多的期刊之一：

Analytical Chemistry

Crystal Growth & Design

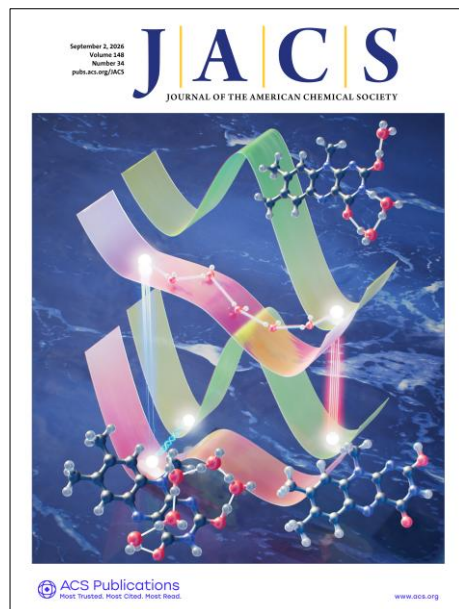
Journal of Medicinal Chemistry

Journal of Agricultural and Food Chemistry



Journal of the American Chemical Society

2 Year Impact Factor: 16.6



Editor-in-Chief
Erick M. Carreira
from ETH Zürich

美国化学会志 **JACS** 是化学领域被引最多的期刊

1. ACS 的旗舰期刊，创刊于 1879 年
2. 每年出版 2500 多篇科研文章，每周出版一期
3. 发表化学各个领域里顶尖的基础和应用研究成果
4. 化学领域里被引用次数最多的跨学科化学期刊

期刊收录研究方向：化学 & 跨学科化学 (JCR - Q1)

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

Chemical Reviews

2 Year Impact Factor: 64.2



Chemical Reviews 是化学领域影响因子最高的期刊

Chemical Reviews 是世界著名的化学期刊，涵盖了化学学科所有的研究领域，它为有机化学，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和可读性强的综述文章。

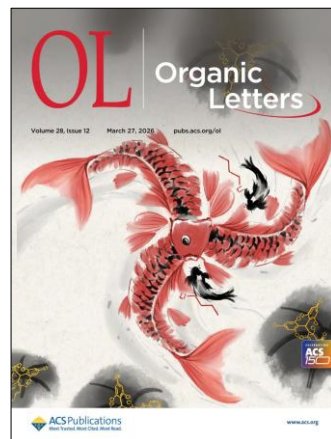
期刊收录研究方向：化学 & 跨学科化学 (JCR - Q1)

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

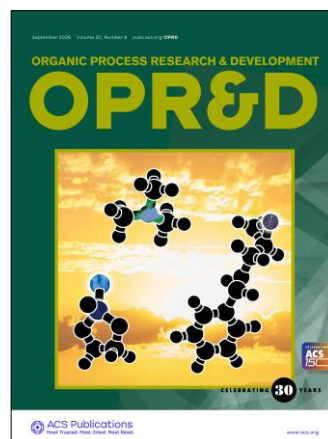
Basic Science Chemistry 化学基础科研



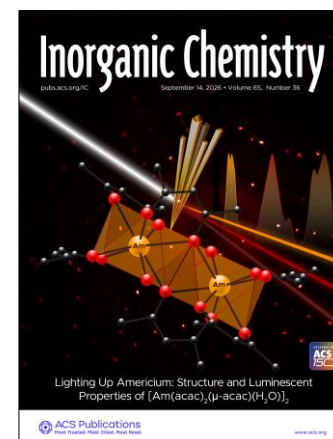
有机化学



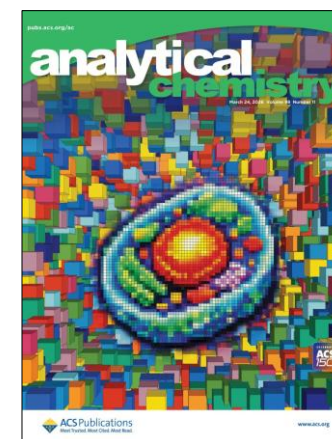
有机快报



有机工艺



无机化学



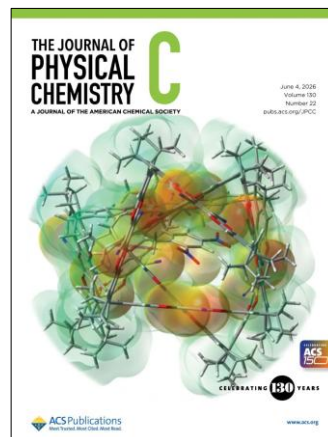
分析化学



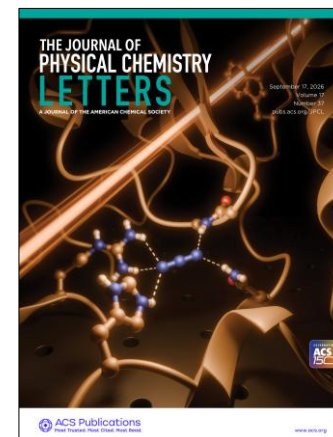
物理化学 A



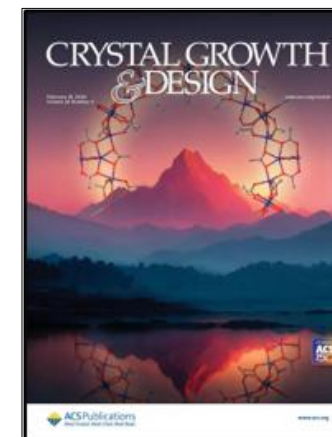
物理化学 B



物理化学 C



物理化学快报



晶体生长与设计

Pharmaceuticals 药物化学



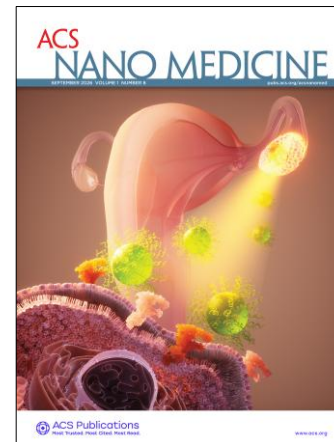
药物化学



药物化学快报



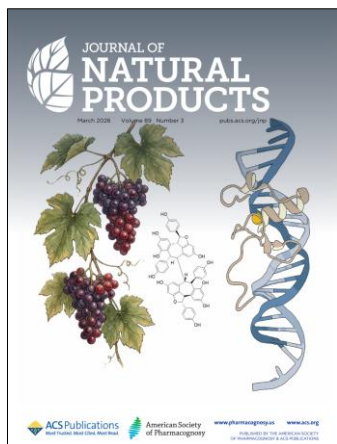
分子药剂学



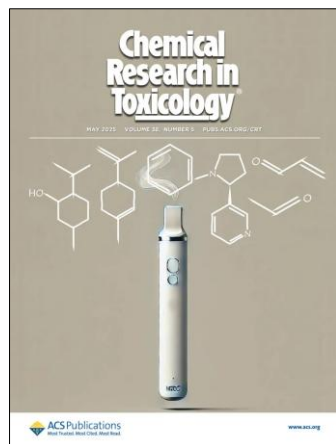
纳米医学



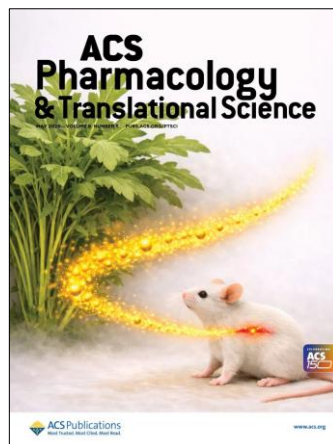
化学生物学



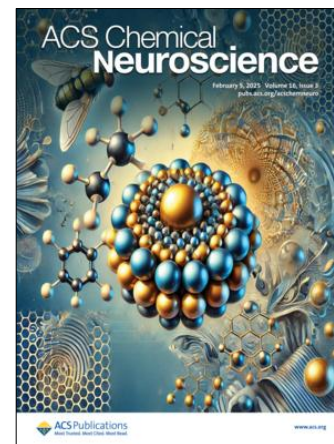
天然产物研究



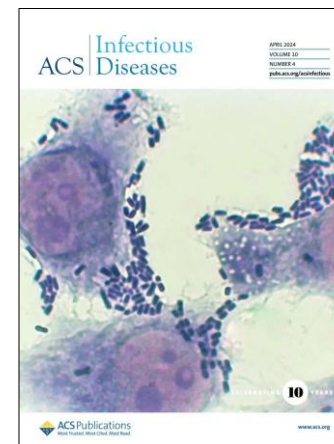
毒理学



药学与转化科学



化学神经科学



传染病研究

Journal of Medicinal Chemistry

2 Year Impact Factor: 7.3



Journal of Medicinal Chemistry 是药物化学领域被引用次数最多的期刊

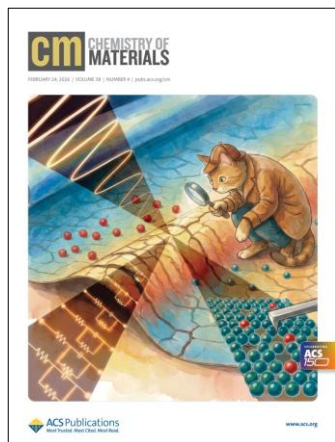
研究范围包括：

1. 化合物分子结构与生物活性之间的关系
2. 先导化合物的设计、合成、优化和评价
3. 药物靶点的发现
4. 药物的作用机理和代谢过程
5. 药物化学领域新颖的方法与应用

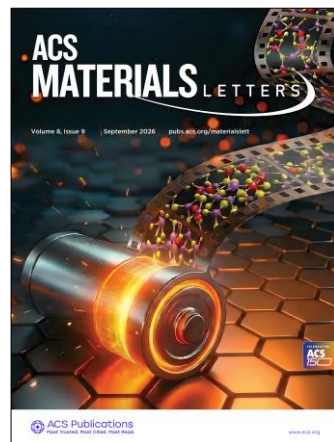
期刊收录研究方向：药物化学 (JCR - Q1区)

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

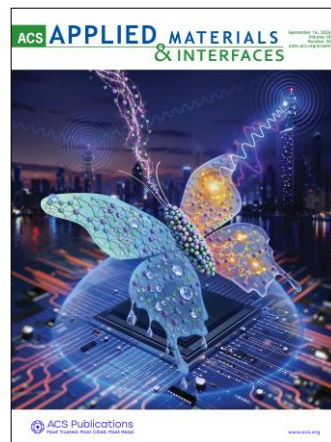
Materials Science & Engineering 材料科学与工程



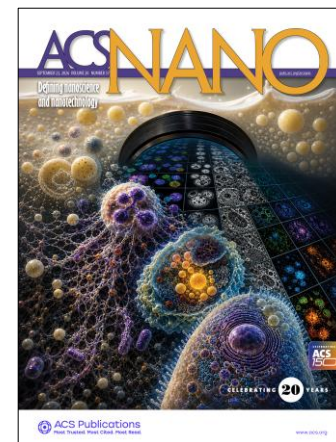
材料化学



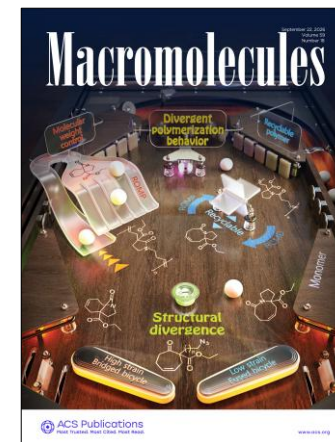
材料快报



应用材料&界面



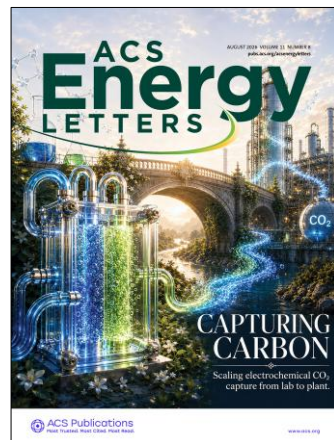
纳米材料



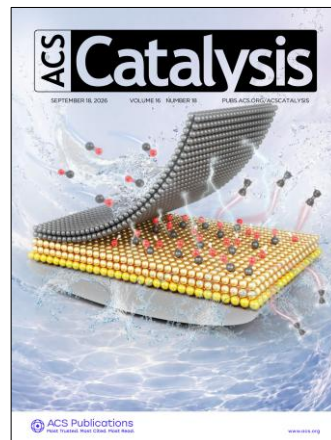
高分子材料



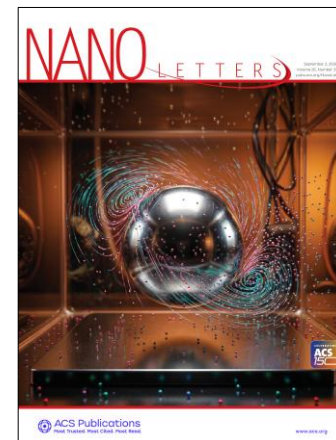
生物材料



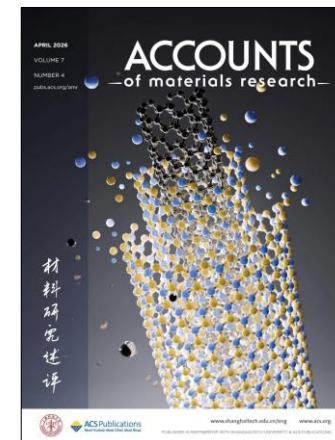
能源材料快报



催化科学



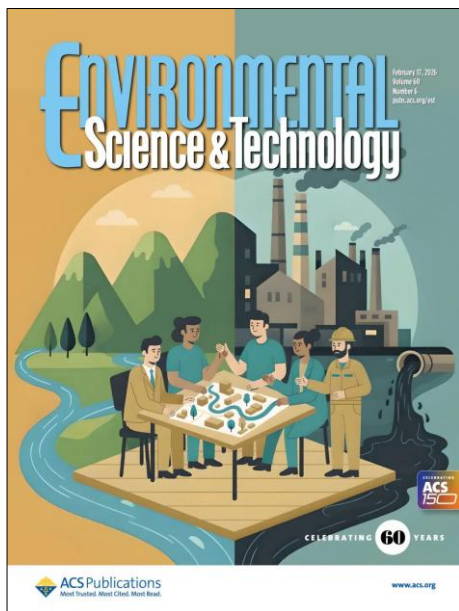
纳米快报



材料研究综述

Environmental Science & Technology

2 Year Impact Factor: 12.2



Environmental Science & Technology 是高影响力的环境科学与技术研究期刊，是引领思想、影响政策的基础性刊物。

研究范围包括：

1. 人为对大气的影响、室内空气和大气中污染物
2. 生物地球化学循环
3. 水生和陆地环境中的污染物
4. 生态毒理学与公共卫生
5. 能源与气候
6. 数据科学、可持续发展、治理和资源回收

期刊收录研究方向：环境工程 (JCR - Q1区)

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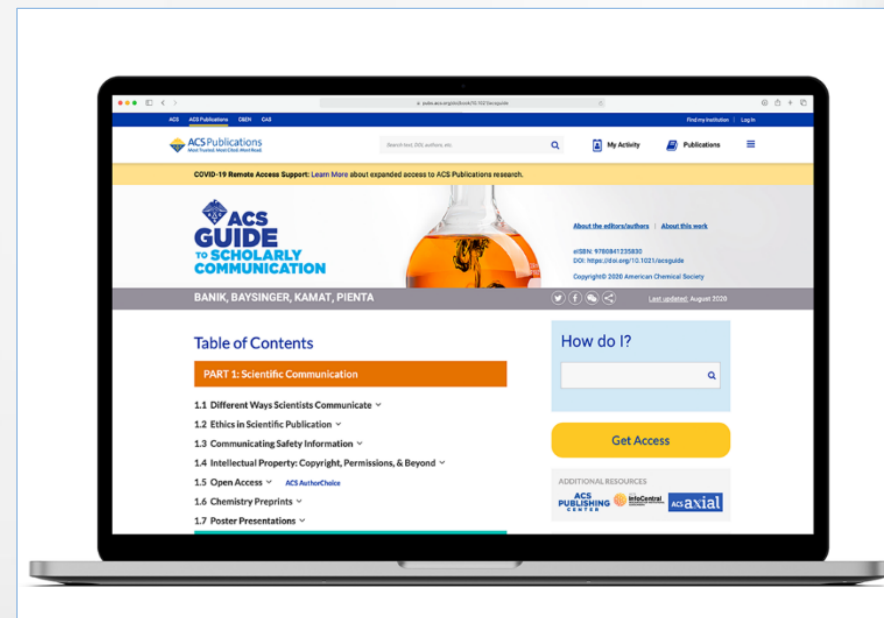
<https://doi.org/10.1021/acsguide>

■ 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。

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

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1923



1943



1969



2015



2016

...2016 AND BEYOND



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学科精选内容页

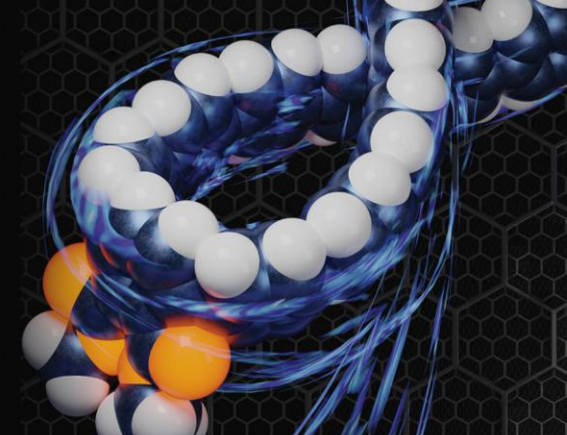
以有机化学为例，其学科精选内容页包含推荐期刊、编辑良择文章、特色主题合集
(Collection，包含不同刊物、不同年份在某一主题发表的文章)和特刊(Special Issue)。

Organic Chemistry

Organic Chemistry covers the design, synthesis, structure, properties, reactivity, and characterization of carbon-based compounds, including small molecules, polymers, natural products, and complex biologics. Organic chemistry researchers explore experimental and theoretical aspects of reaction mechanisms, physical organic properties, catalysis, synthetic methodology, structure-activity relationships, computational modeling, spectroscopy and structure determination, medicinal chemistry and chemical biology, and organic materials. Applications lead to new pharmaceuticals, agrochemicals, advanced functional materials, energy and sustainability technologies, manufacturing and process chemistry, green chemistry innovations, and molecular imaging.

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ACS Editors' Choice



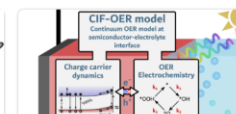
[Strategies for Enantioselective, Cascade, Valorizing, and Expanded Heterocyclic Piancatelli...](#)

A. Talim G. K. Michael Kizirian et al.
July 25, 2026



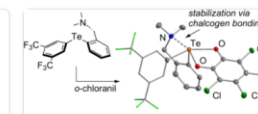
[Hydroaminoalkylation and Zinc Cross-linking: A Pathway to Recyclable Polybutadiene Materials](#)

Saeed Ataie, Amir Malmir et al.
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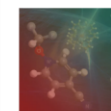
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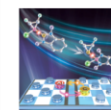
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…以及征稿信息和美国化学学会的评
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Current Calls for Papers

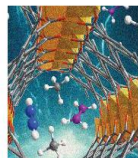
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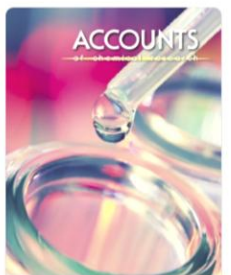


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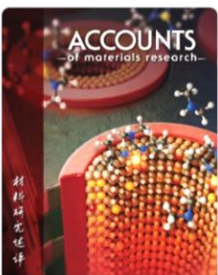
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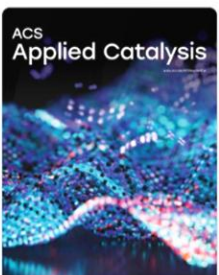
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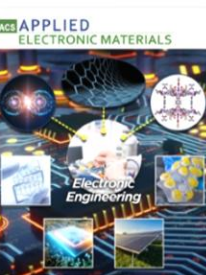
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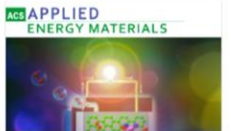
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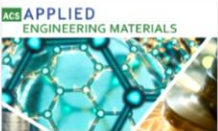
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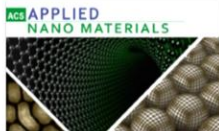
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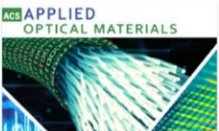
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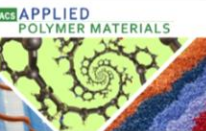












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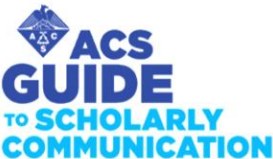
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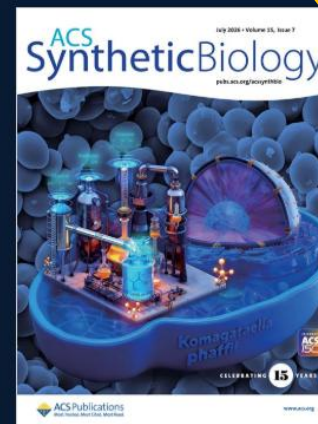
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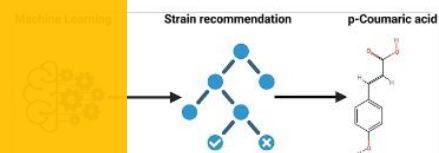
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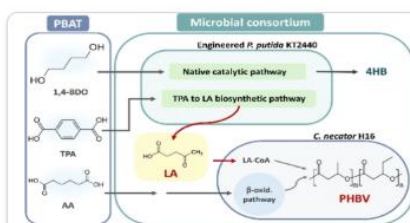
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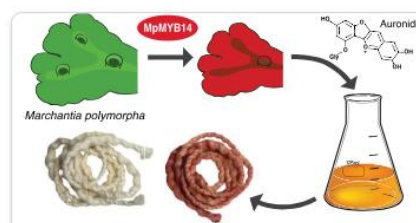
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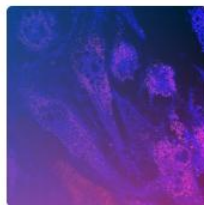
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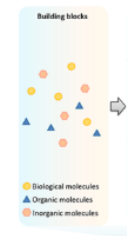
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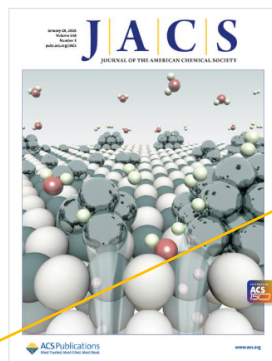


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Volume 148, Issue 3
January 28, 2026

Article Contents

- Abstract
- Introduction
- Results and Discussion
- Conclusions
- Acknowledgements
- References
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The Heterogeneous Charge Transfer Mechanism in Lithium Metal Batteries: Revealing Abnormal Lithiophilicity through the Marcus Theory

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Abstract

Li metal batteries offer a uniform Li metal electroplating and dendrite formation, limiting practical use. These issues arise from complex interfacial charge transfer kinetics, which are still ambiguously defined. Here, we reveal an abnormal dependence of Li electrodeposition kinetics on substrate lithiophilicity, rationalized by the Marcus–Hush–Chidsey (MHC) theory. Contrary to conventional expectations, lithiophobic Cu enables faster electron transfer and more stable Li electroplating at high overpotentials, whereas lithiophilic Au performs better at low overpotentials. This crossover behavior establishes a current density-dependent framework that redefines the classical understanding of lithiophilicity. Electrochemical characterizations, MHC-based modeling, and crystal orbital Hamilton population analysis attribute the phenomenon to electronic coupling strength. The electrolytes, provide general mechanism during Li electroplating and suggest new strategies for interface design in anodeless Li metal batteries.

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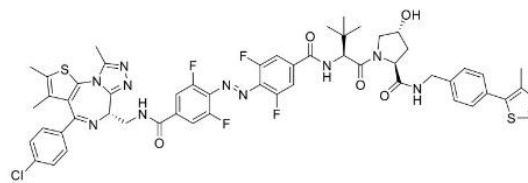
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Rf = 0.36 (85% EtOAc/10% iPrOH/5% H₂O).

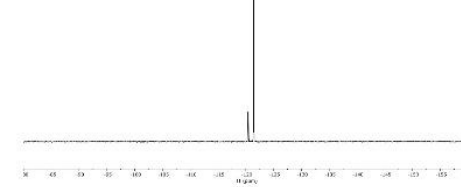
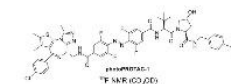
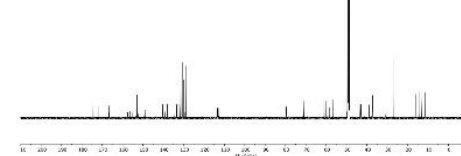
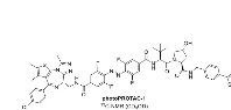
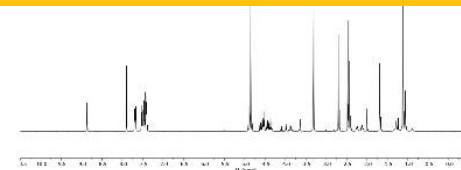
¹H NMR (500 MHz, CD₃OD) δ = 8.87 (s, 1H), 7.70 (dd, *J* = 5.1, 1.6 Hz, 2H), 7.67 (dd, *J* = 5.1, 1.6 Hz, 2H), 7.52 (d, *J* = 8.5 Hz, 2H), 7.48 (d, *J* = 8.5 Hz, 2H), 7.44–7.40 (m, 4H), 4.91 (s, 1H), 4.65–4.50 (m, 4H), 4.43 (dd, *J* = 13.6, 7.0 Hz, 2H), 4.35 (d, *J* = 15.4 Hz, 1H), 3.98 (d, *J* = 11.0 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, 2885, 1665, 1533, 1427, 1343, 1243, 1090, 1047, 967, 843.

ESI-HRMS: calcd. for $C_{54}H_{51}ClF_4N_{11}O_5S_2$ $[M+H]^+$ 1108.3135, found 1108.3144.



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Polyketide synthases (PKSs) are modular enzymes with exceptional potential as biocatalysts for producing non-native compounds. Here, we report the first PKS-based pathway for adipic acid (AA), an industrial monomer for nylon production, by engineering one of the most extensively hybridized PKS systems to date. Using a retrobiosynthetic approach, we identified EtnB, a succinyl-CoA-loading module that

Contents

Figures & Tables

Supporting Info

References



Volume 15, Issue 7

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Article Contents

Abstract

Introduction



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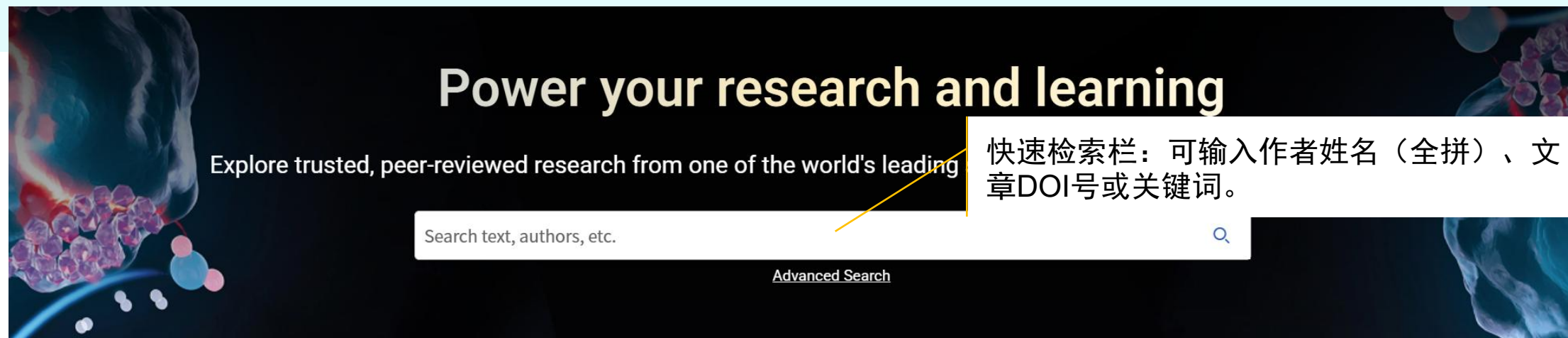
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ACS Omega **2026**, 11 (28): 40973–40990.

Publication Date: 09 July 2026

<https://doi.org/10.1021/acsomega.5c12746>

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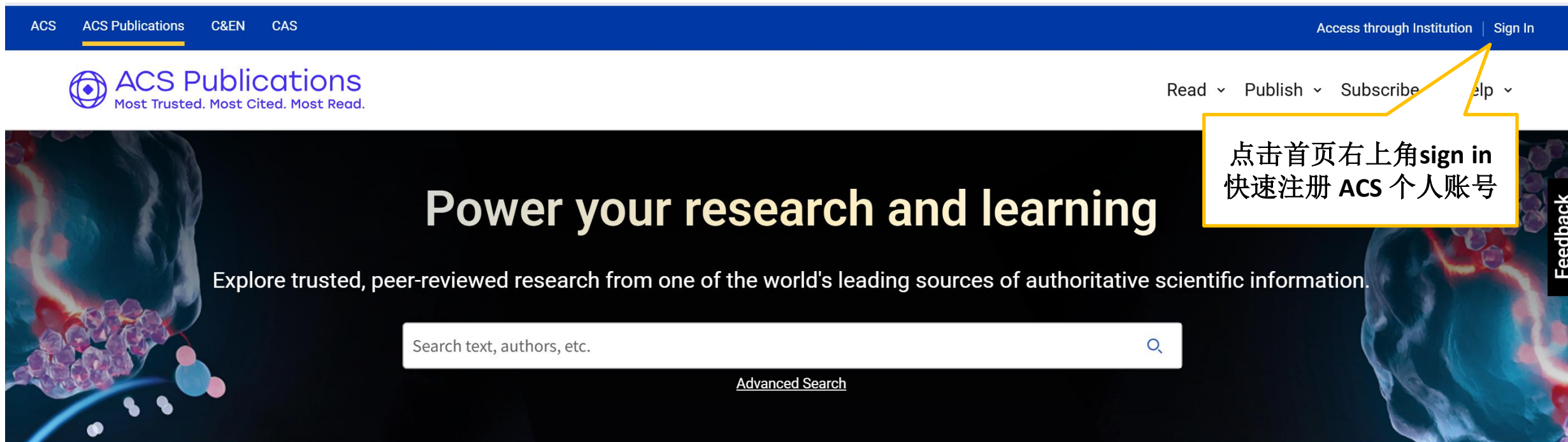
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香港浸会大学通过这份协议，真学界受益的途径”。美国化学会总监会 Peter Hoving 表示，学者将能够继续获取美国化学会期刊内容。并使全球研究者能学前沿科学研究的相关文

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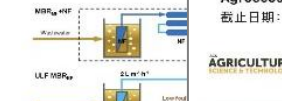
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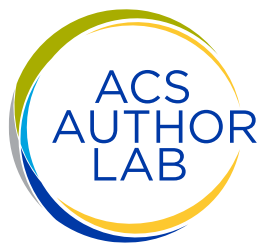
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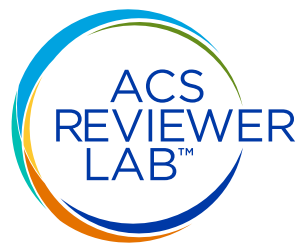
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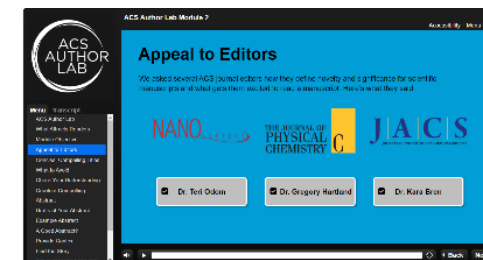
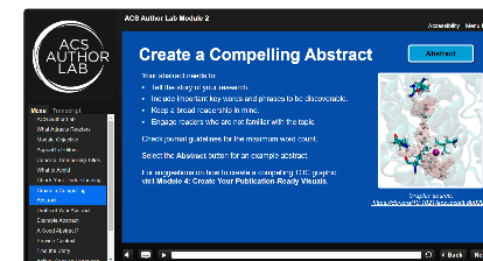
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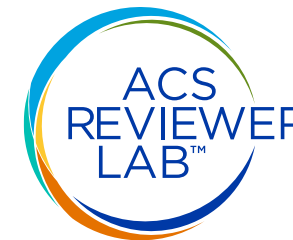
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