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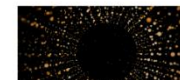
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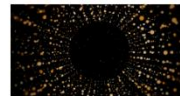
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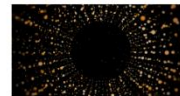
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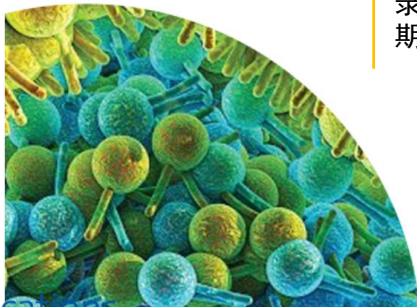


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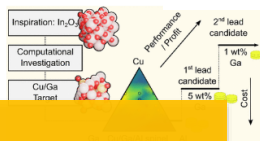
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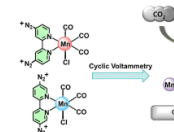
Mingliang Shi, ... and Na Wang\*  
October 30, 2025



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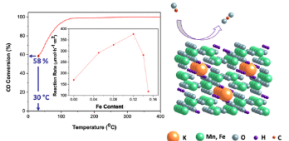
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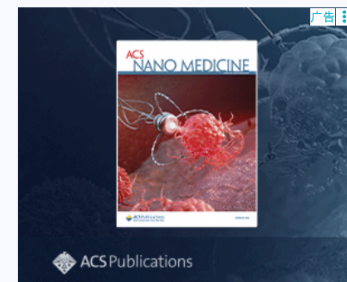
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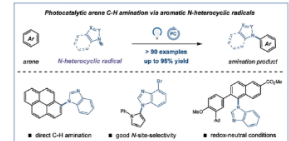
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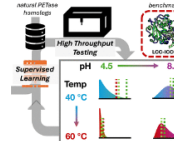


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Minxu Shi, ... and Xiaoheng Zhang\*  
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Zhonghua Li\*, Qi Du, Xiaoxiao Feng, Xuezheng Song, Zhenggang Ren, and Haojie Lu\*

*Journal of the American Chemical Society* 2024, 146, 30, 20539-20543 (Communication)

Publication Date (Web): July 23, 2024

Abstract

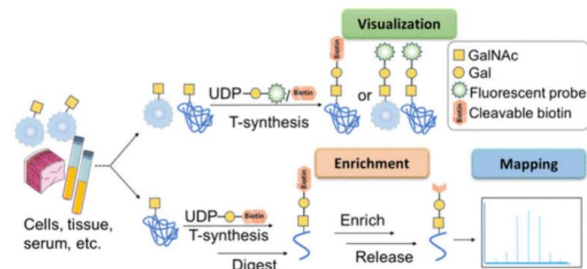
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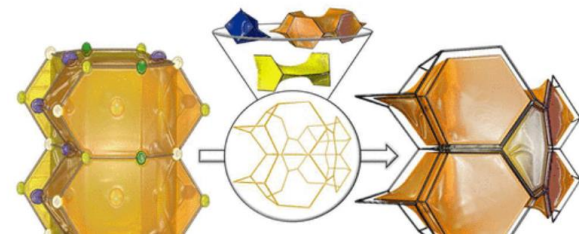
### A Sodium Germanosilicide with Unusual Network Topology

Julia-Maria Hübner\*, Thomas B. Shiell, Piotr A. Guńka, Shuo Tao, Li Zhu, Mads Fonager Hansen, Emma S. Bullock, Stella Chariton, Vitali B. Prakapenka, Yingwei Fei, Vladislav A. Blatov, Davide M. Proserpio, and Timothy A. Strobel\*

*Journal of the American Chemical Society* 2024, 146, 30, 20544-20549 (Communication)  
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ARTICLE | March 19, 2024

## Dianionic and Neutral Diboron-Centered Classical Diradicaloids

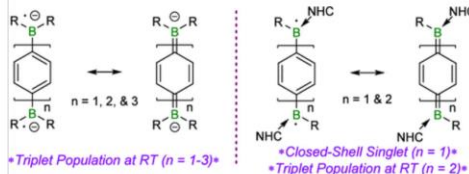
Ayan Das, Benedict J. Elvers, Nicolas Chrysochos, Sk Imraj Uddin, Tejaswinee Gangber, Ivo Krummenacher, Dipanti Borah, Anshika Mishra, Maheswaran Shanmugam\*, Cem B. Yildiz\*, Holger Braunschweig\*, Carola Schulzke\*, and Anukul Jana\*

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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  $\pi$ -conjugated spacer: *p*-phenylene, *p,p'*-biphenylene, or *p,p''*-terphenylene. In the case of neutral diboron-centered diradicaloids, the



Journal of the American Chemical Society

Cite this: *J. Am. Chem. Soc.* 2024, 146, 13, 9004–9011

<https://doi.org/10.1021/jacs.3c13310>

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April 10, 2024 | *Journal of the American Chemical Society*

Maximilian Rang, Myron Heinz, Anel Halkić, Marco Weber, Rian D...

## SI Supporting Information (1)

### Reversible Spatiotemporal Control of Induced Protein Degradation by Bistable PhotoPROTACs

Patrick Pfaff<sup>1,†</sup>, Kusal T. G. Samarasinghe<sup>2,†</sup>, Craig M. Crews<sup>2,3,4</sup> and Erick M. Carreira<sup>1</sup>

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

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

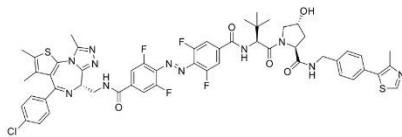
<sup>3</sup>, Dept of Chemistry, Yale University, New Haven, CT 06511, United States

<sup>4</sup>, Dept of Pharmacology, 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  $\mu$ mol, 1.00 equiv) and acid **54** (21.4 mg, 28.0  $\mu$ mol, 1.00 equiv) were dissolved in anhydrous DMF (0.28 mL, 0.1 M). DIPEA (12  $\mu$ L, 85  $\mu$ mol, 3.00 equiv) and HATU (11.3 mg, 30.0  $\mu$ 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. NaHCO<sub>3</sub> 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<sub>2</sub>O) to afford photoPROTAC-1 as an orange oil (16.0 mg, 14.0  $\mu$ mol, 51%).

RF = 0.36 (85% EtOAc/10% iPrOH/5% H<sub>2</sub>O).

<sup>1</sup>H NMR (500 MHz, CD<sub>3</sub>OD)  $\delta$  = 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).

<sup>13</sup>C NMR (126 MHz, CD<sub>3</sub>OD)  $\delta$  = 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.

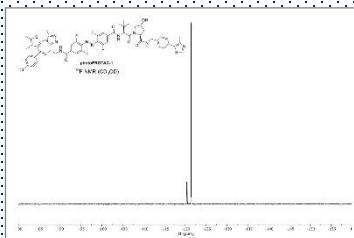
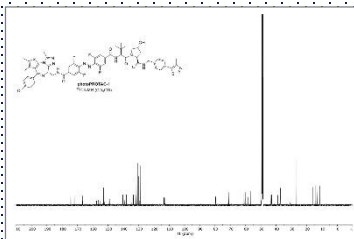
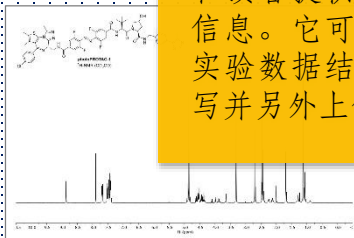
<sup>19</sup>F NMR (471 MHz, CD<sub>3</sub>OD)  $\delta$  = -121.4, -121.5.

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

ESI-MS/MS: calcd. for C<sub>50</sub>H<sub>53</sub>ClF<sub>6</sub>N<sub>11</sub>O<sub>5</sub>S<sub>2</sub> [M+H]<sup>+</sup> 1108.3135, found 1108.3144.

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Refining Petroleum for Chemicals

Refining of Synthetic Crudes

Origin and Refining of Petroleum

Rovnaník, Pavel

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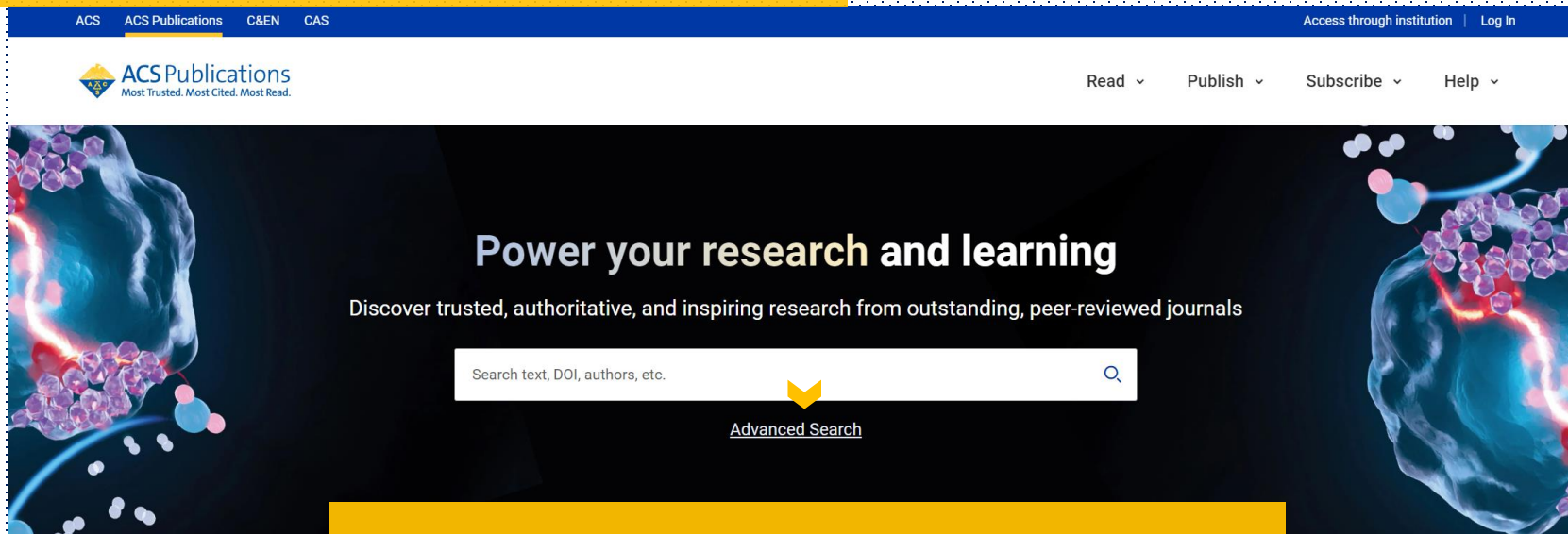
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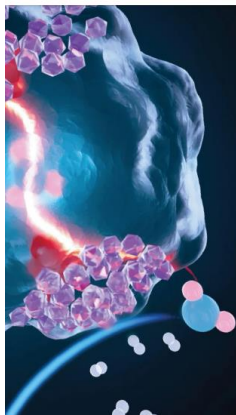
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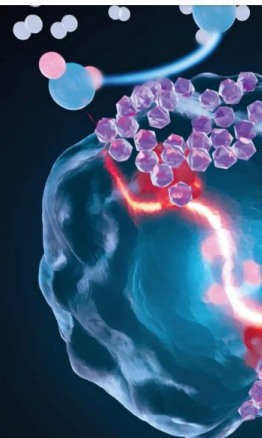
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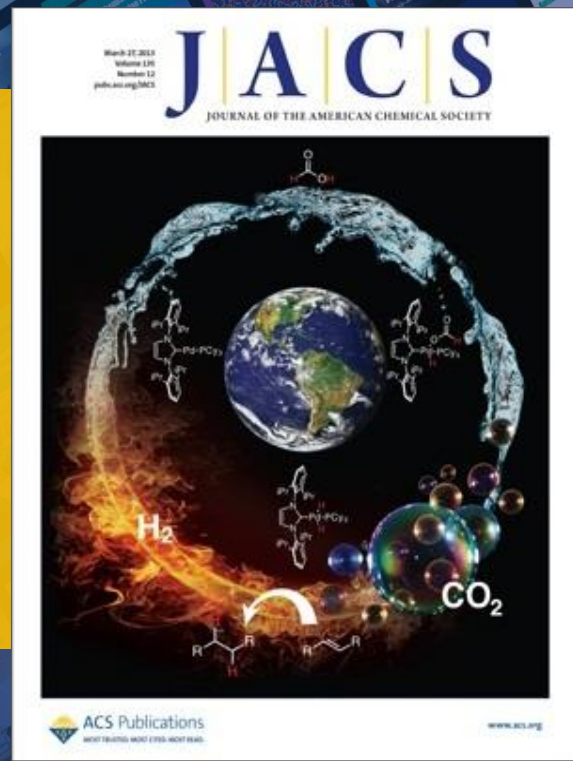
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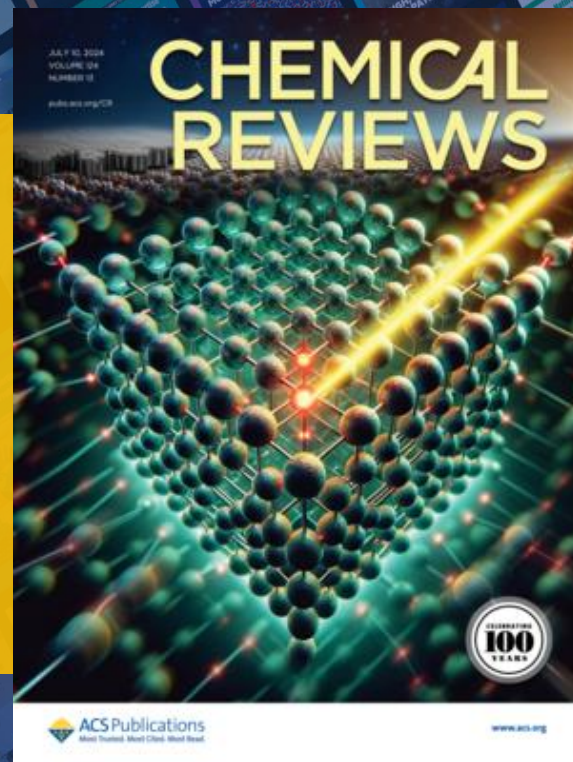
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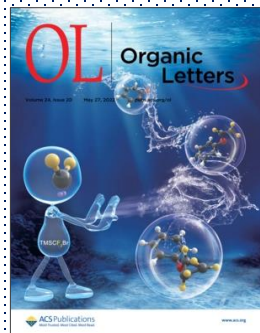
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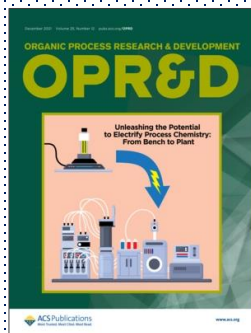
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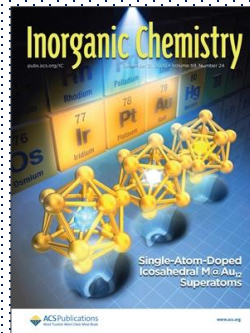
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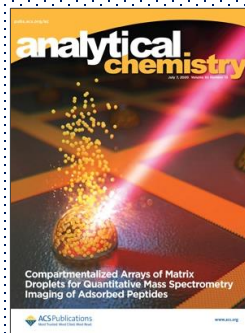
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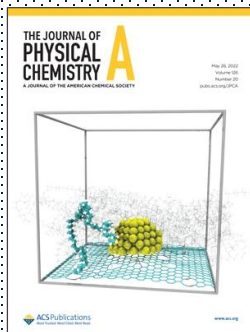
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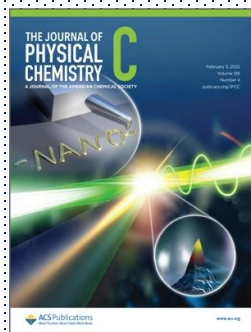
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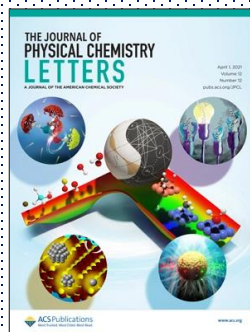
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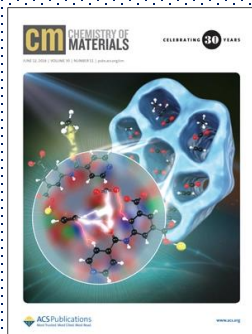


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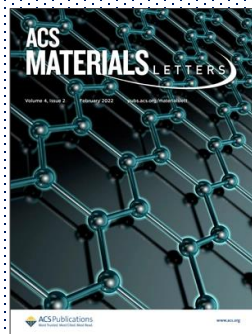


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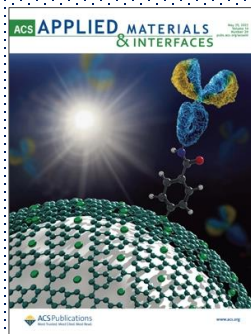
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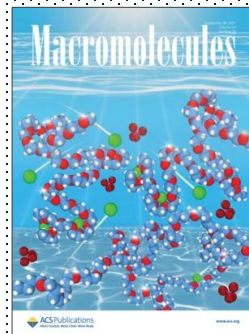
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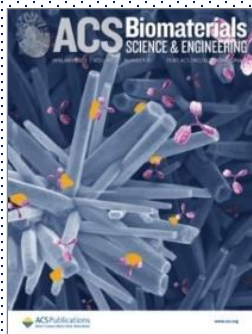
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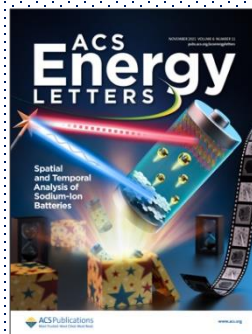
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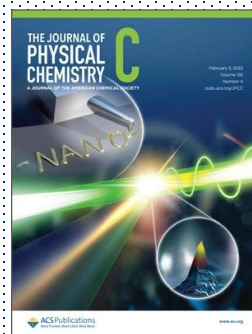
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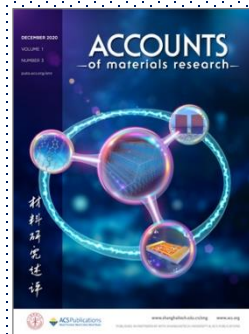
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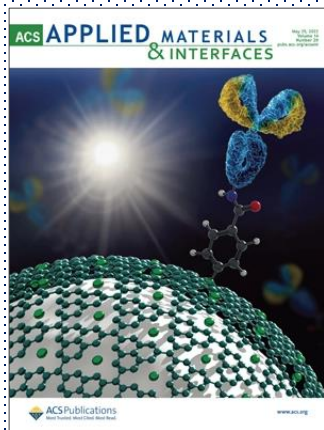


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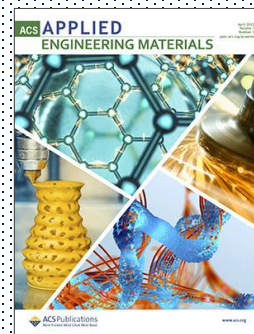
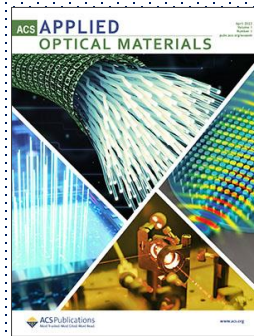
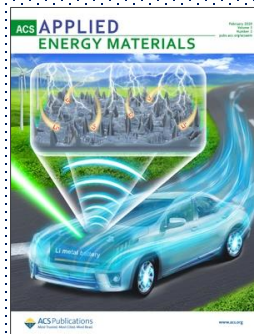
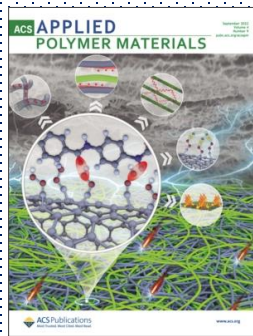
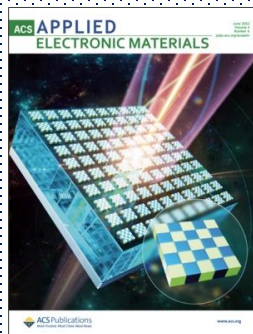
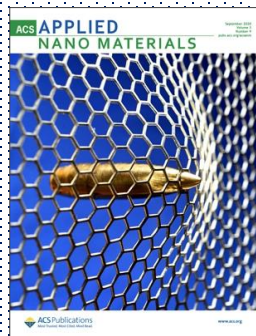
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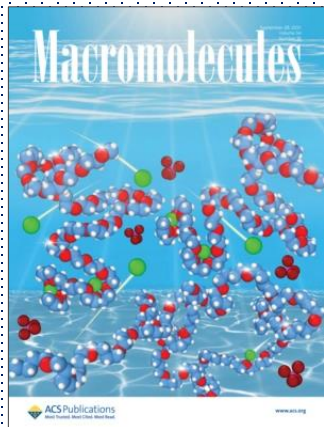
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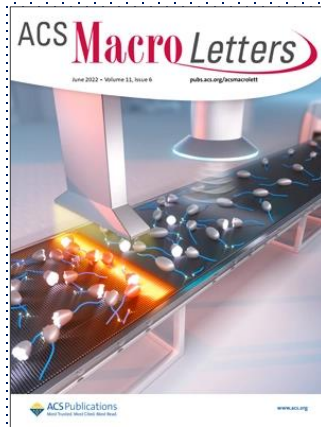
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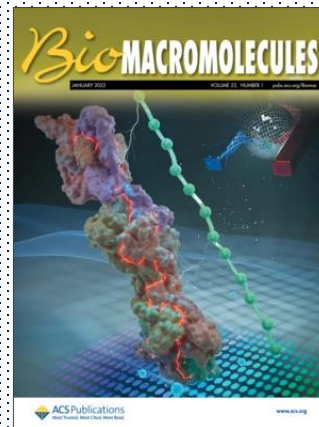
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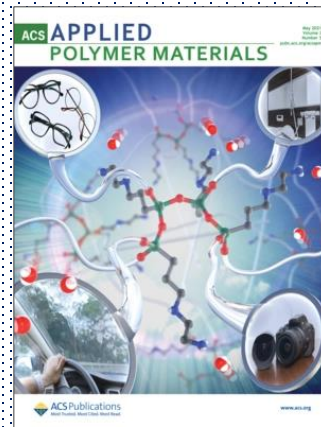
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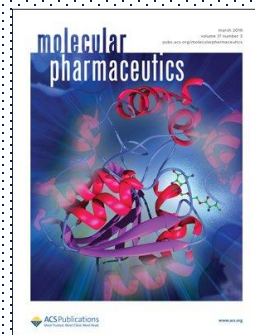
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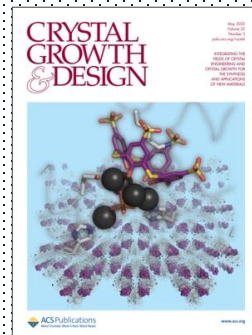
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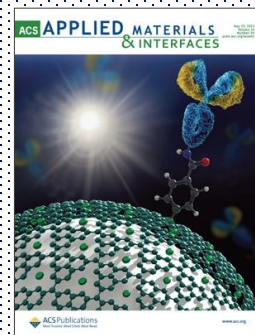
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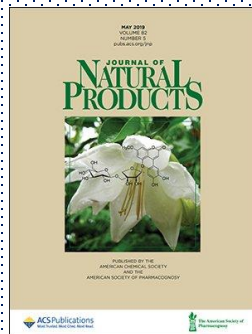
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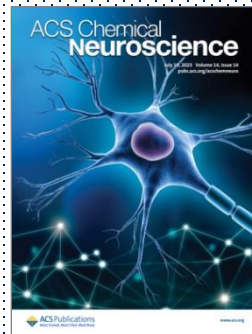
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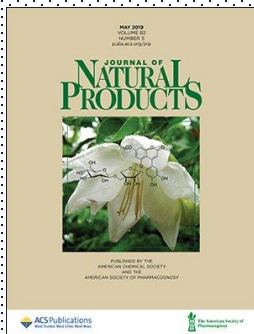
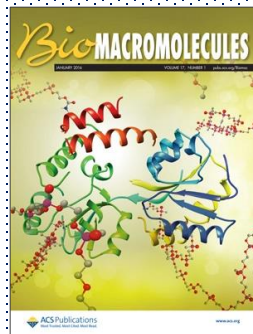
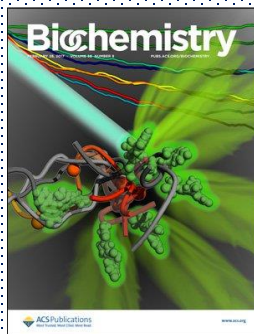


化学神经科学



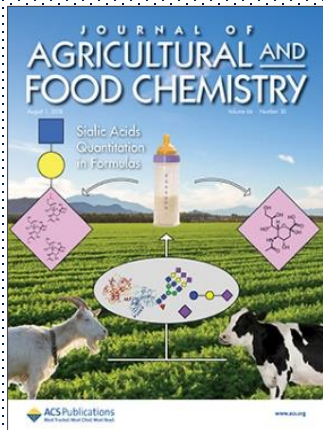
传染病研究

# 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 ←

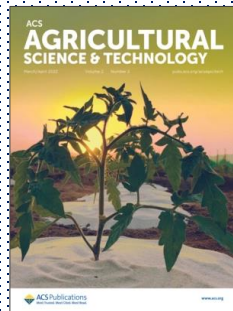
# 农学与食品科学系列子刊



*Journal of  
Agricultural and  
Food Chemistry*

IMPACT FACTOR

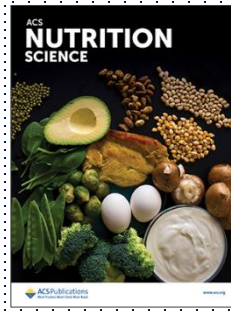
6.2



*ACS Agricultural  
Science &  
Technology*

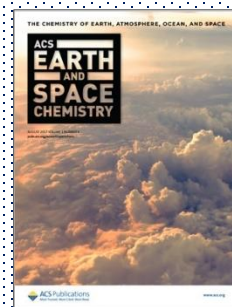
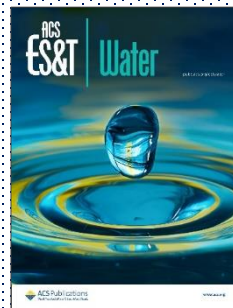
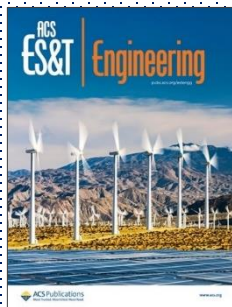


*ACS Food Science  
& Technology*



*ACS Nutrition  
Science 2026 new!*

# 环境科学系列子刊



*Environmental Science  
& Technology*

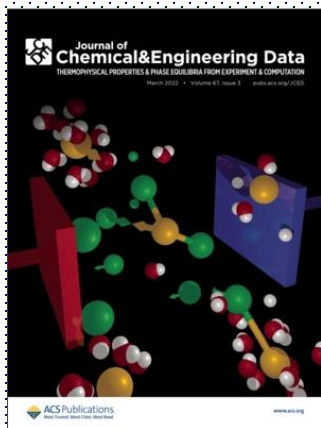
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11.3

# 化工与能源工程



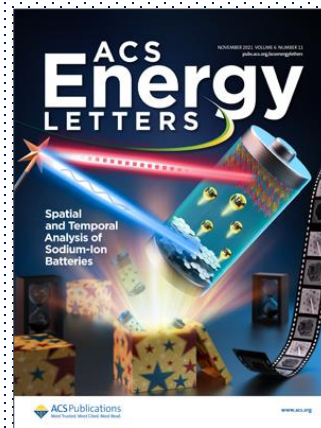
传统化工研究



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)

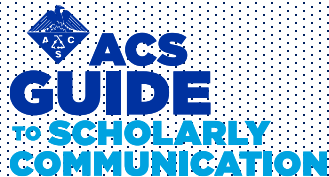
Artificial Photosynthesis (西湖大学)

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。

The logo for ACS eBooks, featuring the text "ACS eBooks" in a white, sans-serif font. The "ACS" is larger and more prominent, with "eBooks" to its right. The logo is set against a light gray background with rounded corners.The logo for ACS IN FOCUS, featuring the text "ACS IN FOCUS" in a white, sans-serif font. The words "ACS IN" are smaller and positioned above "FOCUS". The logo is set against a light gray background with rounded corners.The logo for Chemical & Engineering News (c&en), featuring the text "c&en" in a bold, white, sans-serif font on a red rectangular background. Below the red background, the text "CHEMICAL & ENGINEERING NEWS" is written in a smaller, black, sans-serif font.The logo for ACS Reagent Chemicals, featuring the text "ACS REAGENT CHEMICALS" in a bold, blue, sans-serif font. The "ACS" is larger and more prominent, with "REAGENT CHEMICALS" to its right.The logo for ACS Guide to Scholarly Communication, featuring a blue diamond-shaped icon with "ACS" inside, followed by the text "ACS GUIDE TO SCHOLARLY COMMUNICATION" in a bold, blue, sans-serif font.

# ACS eBooks

<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



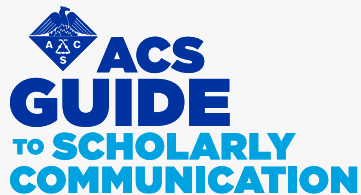
ACS Publications  
Most Trusted. Most Cited. Most Read.

# 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。

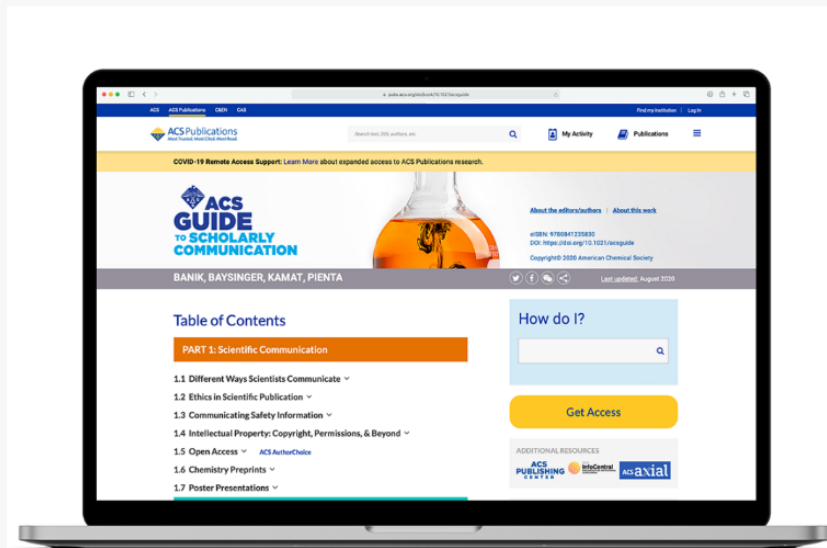




# ACS GUIDE TO SCHOLARLY COMMUNICATION

<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 的实施标准。





<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。

### c&en covers:

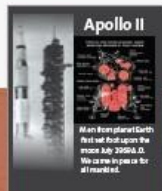
- Cutting-edge research
- Career and employment info
- Industry trends
- Chemical regulation



1923



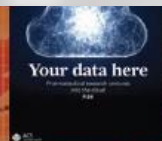
1943



1969



2015



2016

...2016 AND BEYOND

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任彦 - coordinator ([maryann@igroup.com.cn](mailto:maryann@igroup.com.cn))

iGroup是美国化学会、美国物理学会、美国计算机协会等学协会全文数据库和在线出版物的国内独家代理

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