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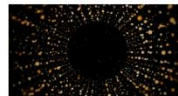
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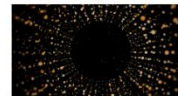
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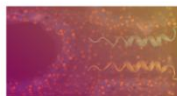
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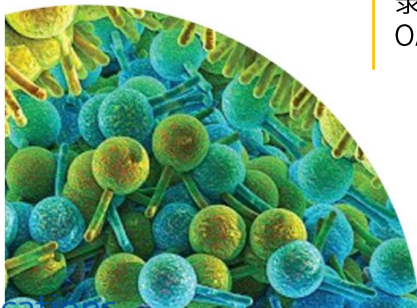
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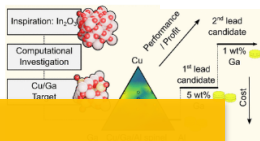
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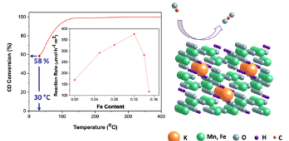
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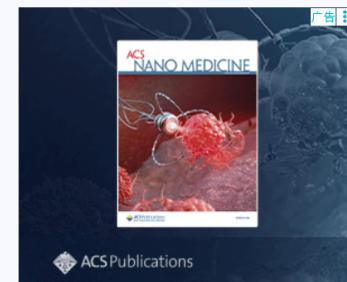
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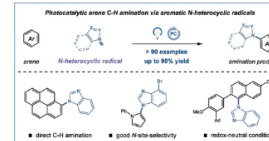
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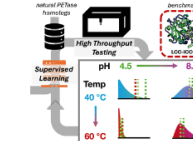


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Zhonghua Li*, Qi Du, Xiaoxiao Feng, Xuezheng Song, Zhenggang Ren, and Haojie Lu*

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

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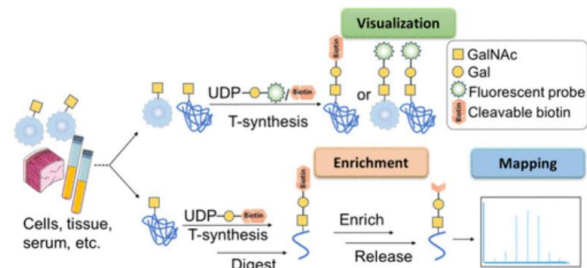
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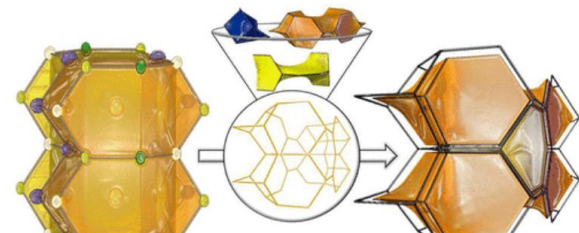
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Ayan Das, Benedict J. Elvers, Nicolas Chrysochos, Sk Imraj Uddin, Tejaswinee Gangber, Ivo Krummenacher, Dipanti Borah, Anshika Mishra, Maheswaran Shanmugam*, Cem B. Yildiz*, Holger Braunschweig*, Carola Schulzke*, and Anukul Jana*

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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 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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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. Carreira¹

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

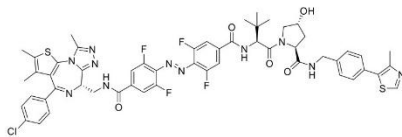
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(2S,4R)-1-((S)-2-(4-(E)-4-(((S)-4-(4-chlorophenyl)-2,3,9-trimethyl-6H-thieno[3,2-f][1,2,4]triazolo[4,3-a][1,4]diazepin-6-yl)methyl)carbamoyl)-2,6-difluorophenyl)diazenyl)-3,5-difluorobenzamido)-3,3-dimethylbutanoyl)-4-hydroxy-N-(4-(4-methylthiazol-5-yl)benzyl)pyrrolidine-2-carboxamide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



JQ-1 amine **18** (10.5 mg, 28.0 μmol, 1.00 equiv) and acid **54** (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. NaHCO₃ and the aq. phase was extracted three times with EtOAc. The combined org. layers were washed with brine and dried over sodium sulfate. Residual DMF and tetramethylurea were removed by lyophilization after freezing in a water/dioxane mixture. The crude product was further purified by flash column chromatography (94% EtOAc/4% iPrOH/2% H₂O) to afford photoPROTAC-1 as an orange oil (16.0 mg, 14.0 μmol, 51%).

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

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

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

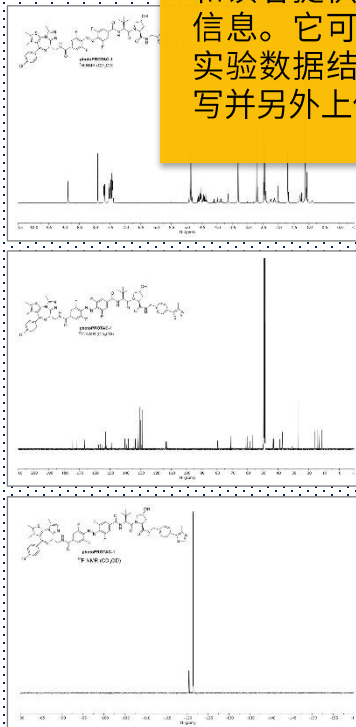
¹⁹F NMR (471 MHz, CD₃OD) δ = -121.4, -121.5.

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

ESI-HRMS: calcd. for C₅₂H₅₃ClF₆N₁₁O₅S₂ [M+H]⁺ 1108.3135, found 1108.3144.

Supporting Information是什么?

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refining|



Refining Petroleum for Chemicals

Refining of Synthetic Crudes

Origin and Refining of Petroleum

Rovnaník, Pavel

Ravagnani, Mauro A. S. S.

开启高级检索并保存检索式

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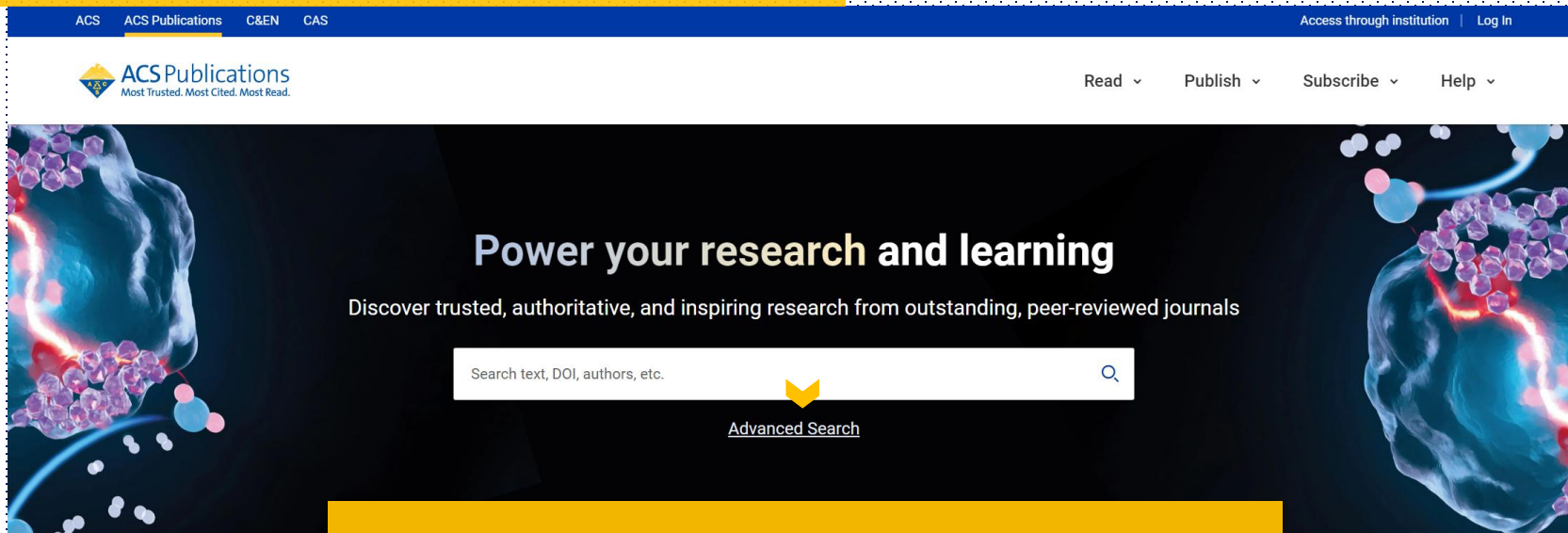
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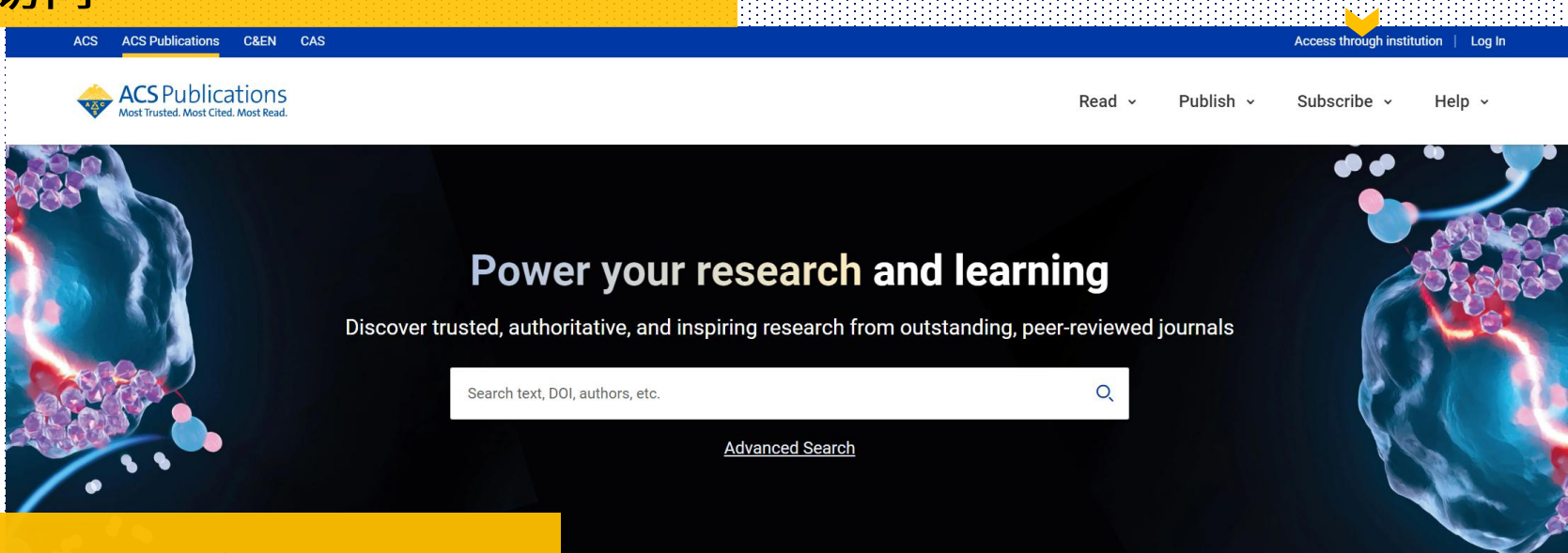
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Journal of the American Chemical Society 美国化学 会志

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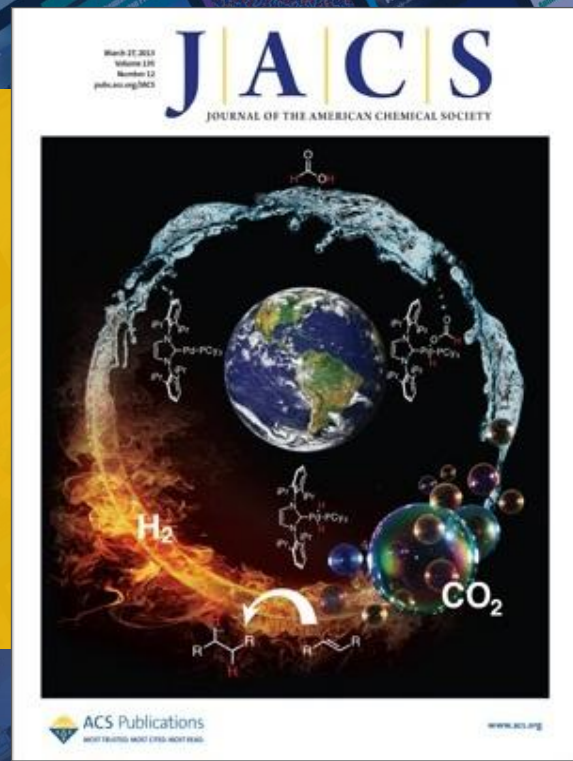
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Chemical Reviews 化学评论

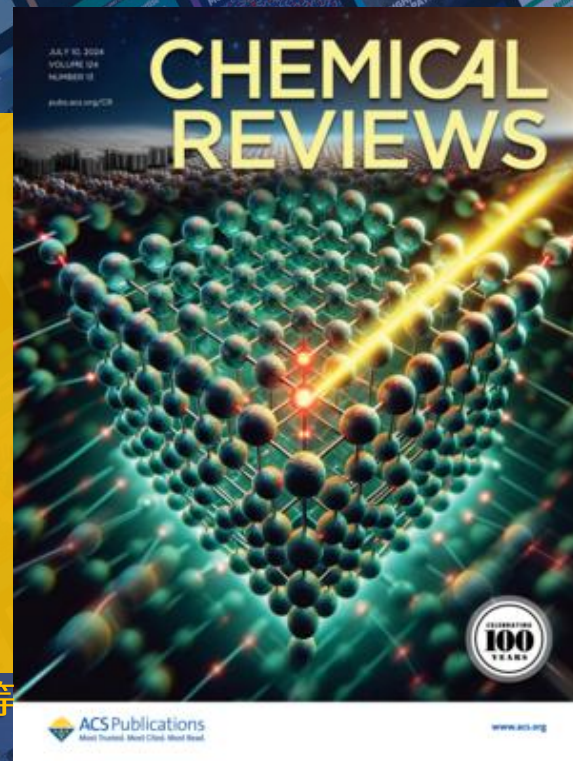
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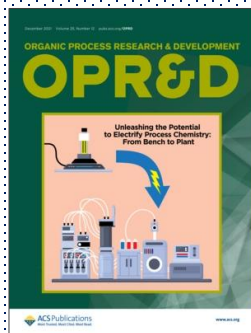
化学的基础科研领域



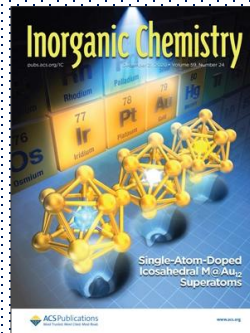
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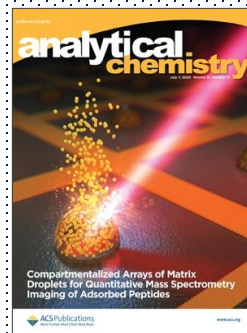
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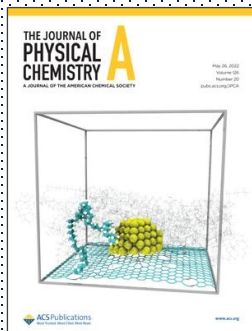
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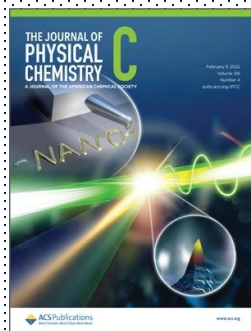
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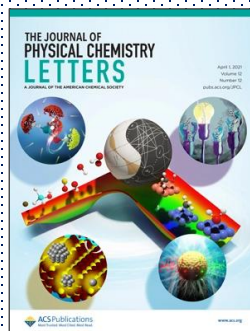
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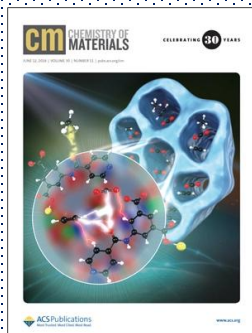


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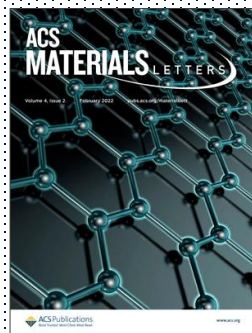


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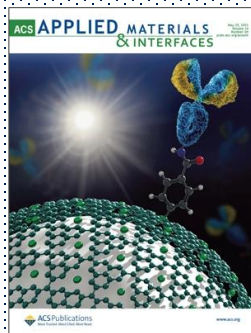
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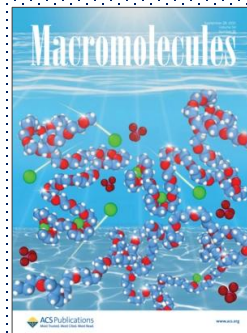
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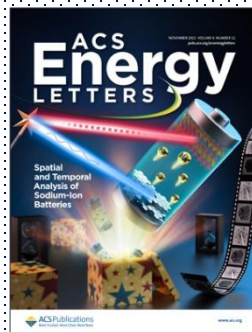
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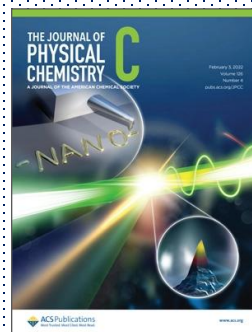
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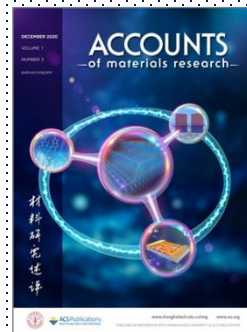
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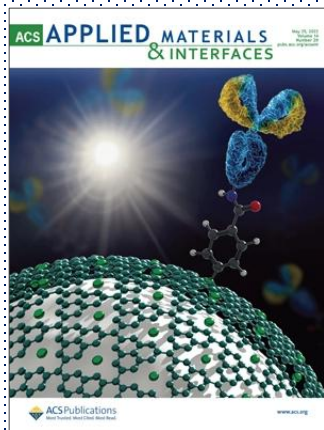


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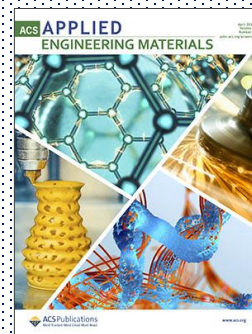
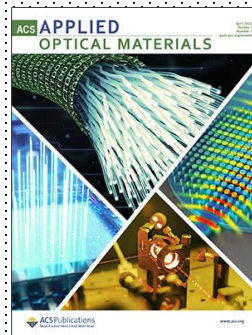
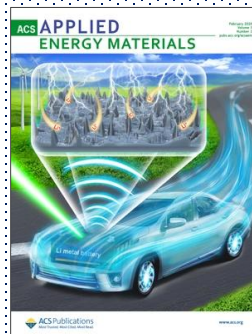
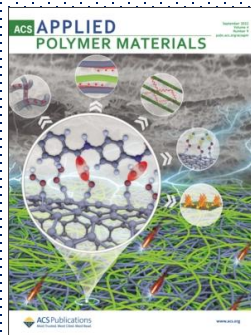
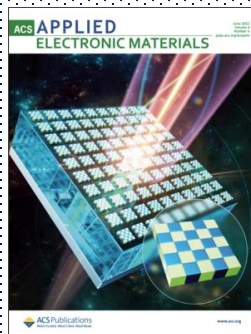
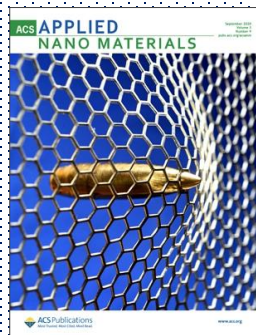


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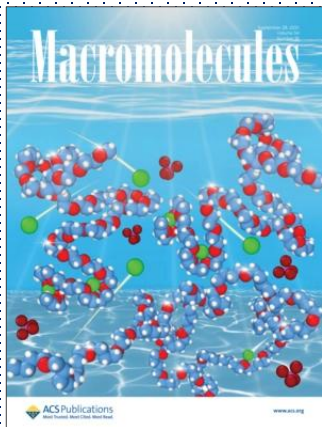
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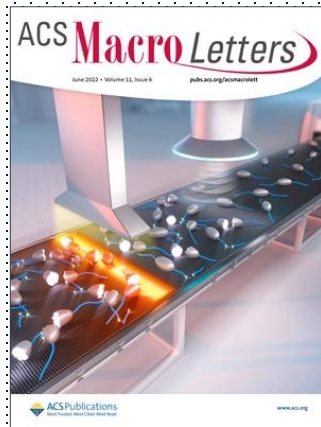
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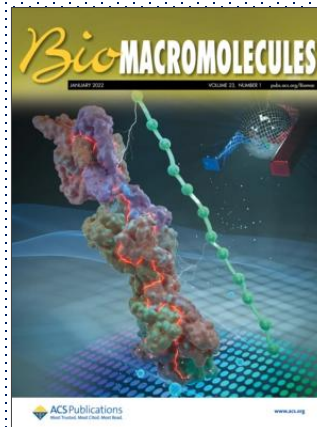
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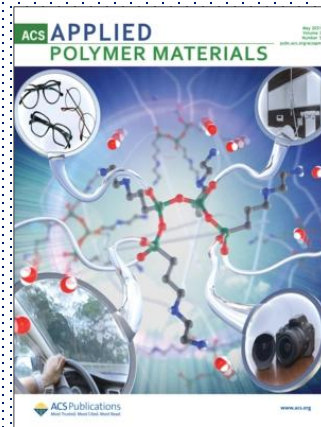
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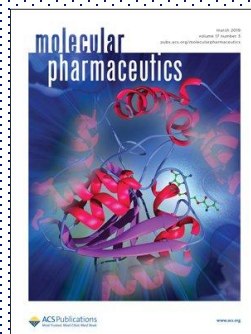
药学



药物化学



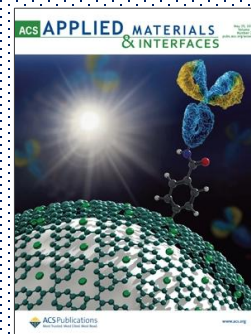
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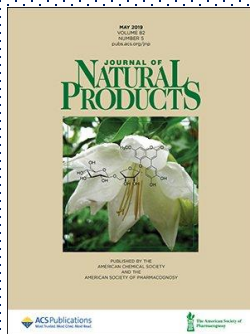
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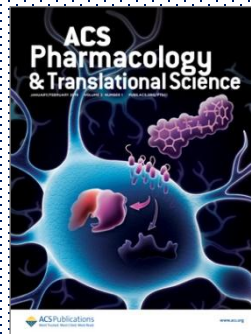
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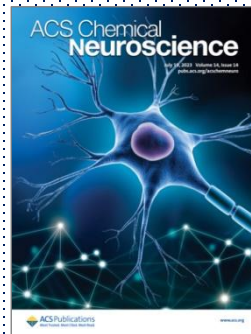
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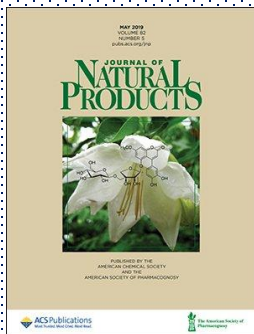
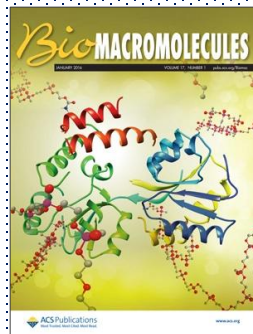
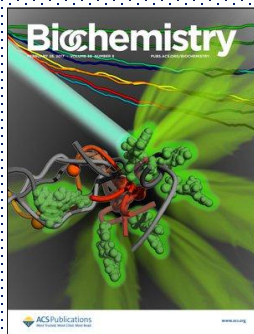


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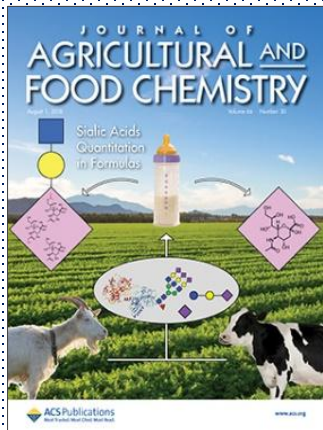
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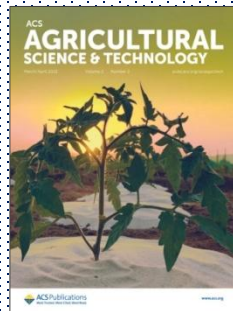
农学与食品科学系列子刊



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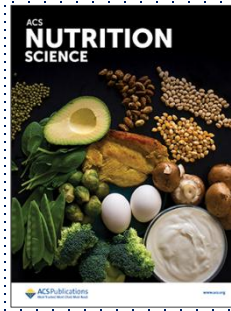
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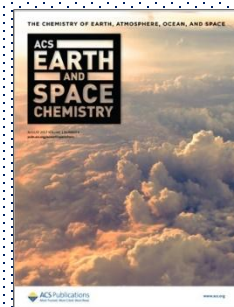
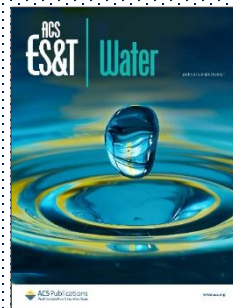
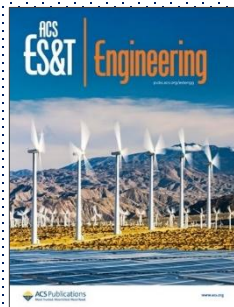


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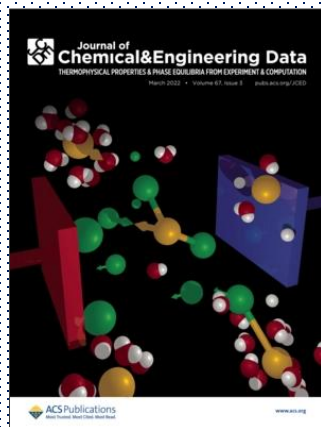


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11.3

化工与能源工程



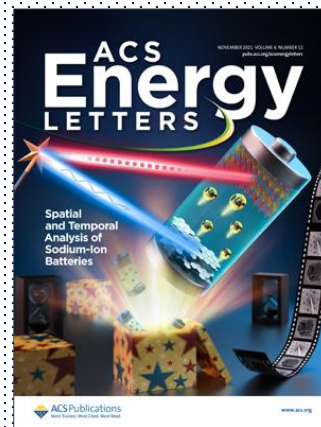
传统化工研究



化工数据



能源与燃料化工



新能源

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- 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:

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Environment & Health (生态环境研究中心)

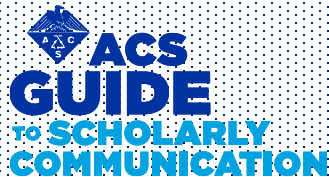
Artificial Photosynthesis (西湖大学)

Chemical & Biomedical Imaging (南京大学)

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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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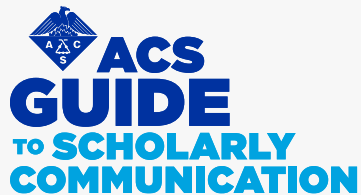
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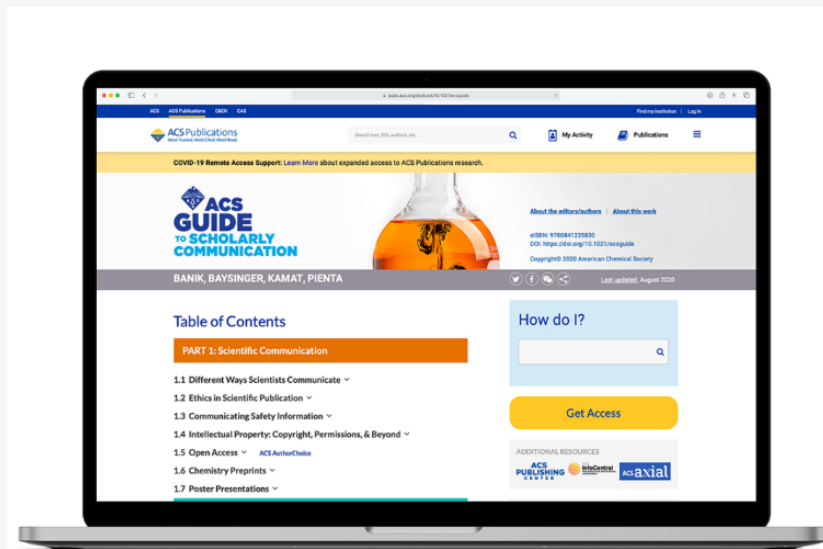
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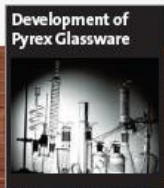
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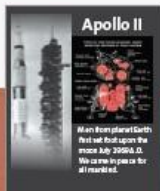
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