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ACS Publications: 跨学科化学的学术资源

From American Chemical Society (ACS)
CALIS 第二十二届引进数据库培训周

赵璟 iGroup China
2024年5月14日

关于 iGroup China



iGroup 成立于 1983 年，在全球 20 多个国家和地区都设有办事处，是亚太地区最大的学术科研资源提供商之一，独家负责各领域科研数据库的销售和服务。

在中国，iGroup China 代表 ACS（美国化学会）、Science（美国科学促进会）、APS（美国物理学会）、SPIE（国际光学工程学会）、SAE（国际自动机工程师学会）等四十多家国际学术出版社，助力高校机构、政府机构及企业的研发和创新，帮助科研人员获取有价值的学术文献，了解最新的科学成果。

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American Chemical Society



课程签到码

ACS 美国化学会是世界上最大的科技学会之一

- 成立于 1876 年
- 学会总部位于美国华盛顿特区
- 全球遍布 140 多个国家，超过 15 万会员
- 出版高品质的专业科学期刊



ACS Publications 数据库出版物资源

<https://pubs.acs.org>

ACS 数据库出版物资源包含:

- ACS Journals 70 多种电子期刊
- ACS eBooks 1600 多本电子书
- ACS In Focus 系列电子书
- C&EN 化学与工程新闻杂志
- 试剂标准手册
- 学术交流指南

全库资源超过 140 万篇文章, 涵盖了 20 多个与化学相关的研究领域。



ACS Journals
电子期刊



ACS eBooks
电子书



ACS In Focus
系列电子书



C&EN
化学与工程
新闻杂志



ACS Reagent
Chemicals
试剂标准手册



ACS Guide
学术交流指南



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ACS Journals 学术期刊

<https://pubs.acs.org>

已出版 70 多种高品质的专业科学期刊，发表化学各个领域的前沿研究成果。

ACS 期刊的影响因子中位数为 5.3。

美国化学会志 JACS 保持在化学领域里是被引用次数最多的期刊。

根据 2023 年 JCR Citation Reports: ACS 期刊的总被引用次数超过 440 万。

ACS 的全文访问量来自中国的占比最高。



课程签到码



WE COVER EVERY ASPECT OF CHEMISTRY



课程签到码

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

物理化学

能源

农业与食品化学

有机化学

理论与计算化学

催化

生物与药物化学

有机金属化学

高分子科学

材料科学

化学工程与工业化学

分析化学

化学教育

纳米科学

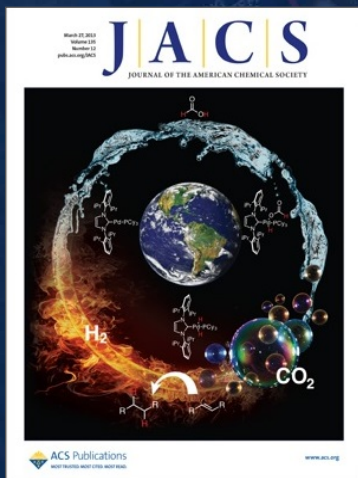
地球、空间与环境化学

Journal of the American Chemical Society

Impact Factor: 15.0 | Citations: 580,144



课程签到码



Editor-in-Chief

Erick M. Carreira
from ETH Zürich

美国化学会志 **JACS** 创刊于 1879 年，是美国化学会的第一本期刊，是学会的旗舰刊。

JACS 期刊每年发表大约 2500 篇科研文章，每周出版一期。它是化学领域里被引用次数最多的跨学科化学期刊，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：化学，化学综合
Indexed in: CAS, SCIE, Scopus, PubMed, etc.

Chemical Reviews

Impact Factor: 62.1 | Citations: 231,674



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2022 IMPACT FACTOR

62.1

Chemical Reviews 是世界杰出的期刊之一，涵盖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、关键和可读性强的综述文章。

Chemical Reviews 是化学期刊大类里影响因子最高的期刊。

期刊收录研究方向：化学，化学综合
Indexed in: CAS, SCIE, Scopus, PubMed, etc.

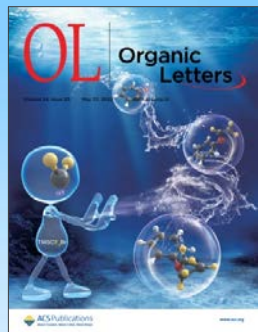
Basic Science of Chemistry 化学的基础科研领域



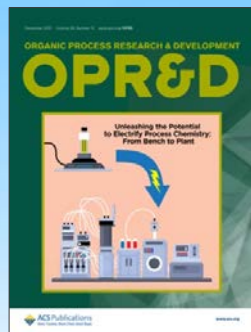
课程签到码



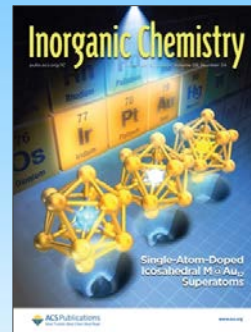
有机化学



有机快报



有机工艺



无机化学



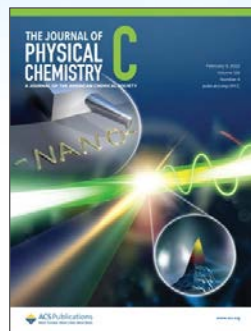
分析化学



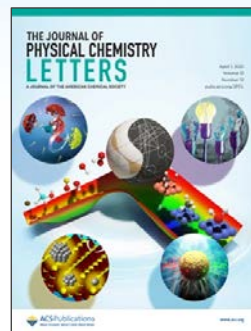
物理化学 A



物理化学 B



物理化学 C



物理化学快报

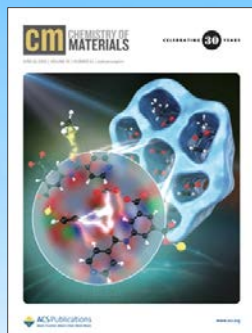


化工研究

Materials Science & Engineering 材料科学与工程



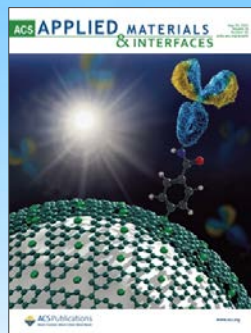
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材料化学



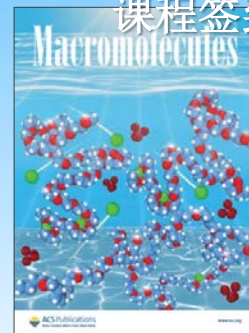
材料快报



应用材料&界面



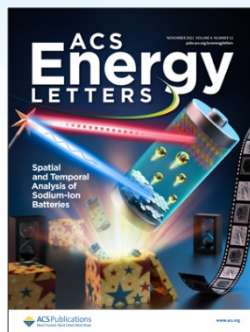
纳米材料



高分子材料



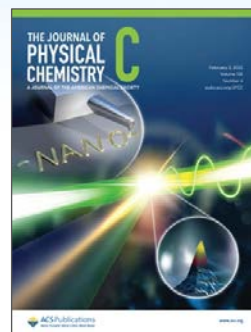
生物材料



能源材料快报



催化科学



材料物理化学



材料综述

Pharmaceuticals 药物化学



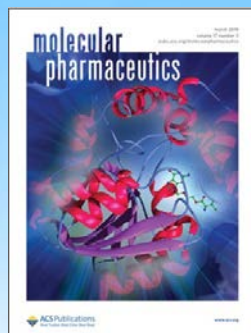
课程签到码



药物化学领域的
顶级期刊



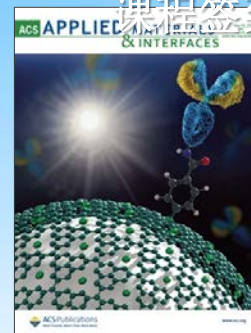
药物化学快报



分子药剂学



药物制剂



界面现象&应用



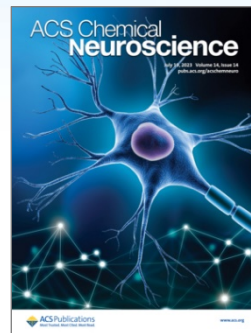
天然产物研究



毒理学



药学与转化科学



化学神经科学

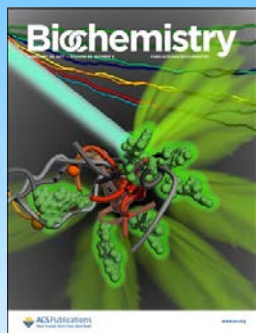


传染病研究

Biotechnology 生物技术



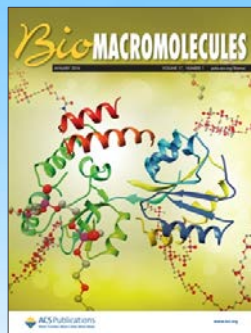
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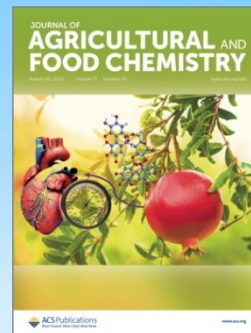
生物化学



生物共轭化学



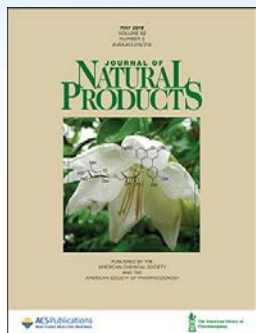
生物大分子



农业&食品科学



生物材料



天然产物研究



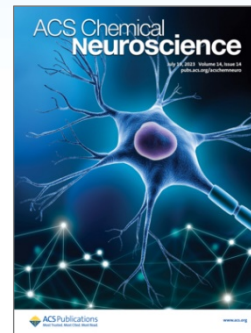
蛋白质组学



合成生物学



化学生物学

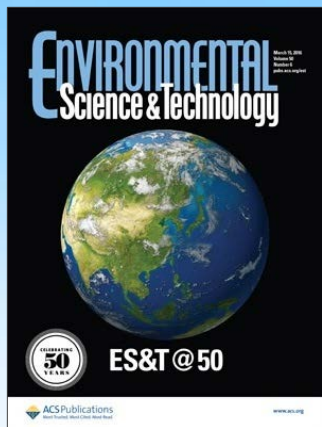


化学神经科学 12

Environmental Science 环境科学与技术



课程签到码



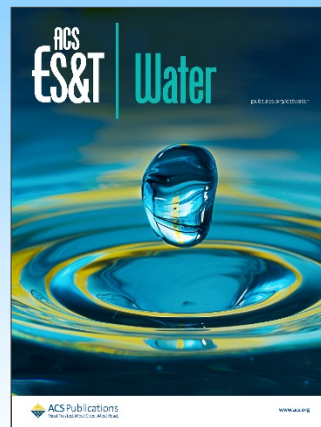
Environmental
Science &
Technology
环境科学与技术



Environmental
Science &
Technology Letters
环境科学与技术快报



ACS ES&T
Engineering
EST子刊: 环境工程



ACS ES&T
Water
EST子刊: 水环境



ACS Earth and
Space Chemistry
地球与空间化学

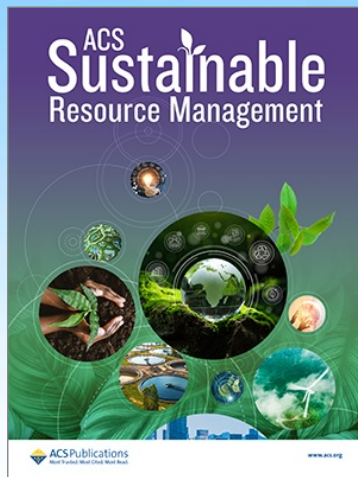
ACS 新刊介绍 2024



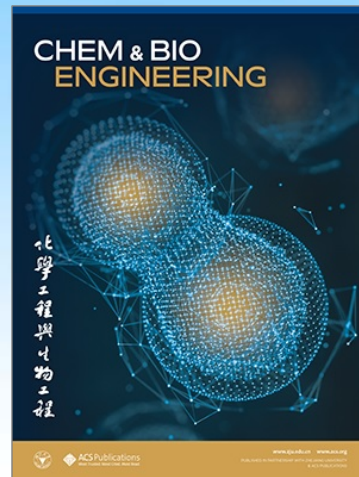
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ACS ES&T Air
Launched in 2024
EST子刊: 大气环境



**ACS Sustainable
Resource
Management**
Launched in 2024



**Chem & Bio
Engineering**
Launched in 2024
和浙江大学合作办刊

Open Access Journals

美国化学会旗下的开放获取期刊总共有 15 种，分别具有不同的内容和定位。



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ACS Central Science

Launched in 2015

IMPACT FACTOR

18.2

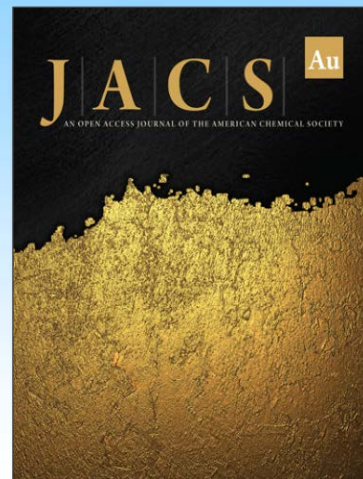


ACS Omega

Launched in 2016

IMPACT FACTOR

4.1



JACS Au

Launched in 2020

IMPACT FACTOR

8.0

Open Access Journals

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

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 与中国的高校及科研机构的合作期刊

- | | | |
|-------------------------------|------|---|
| Precision Chemistry | 2023 | University of Science and Technology of China |
| Chemical & Biomedical Imaging | 2023 | Nanjing University |
| Environment & Health | 2023 | The Research Center for Eco-Environmental Sciences, CAS |



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 - 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

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1,600

BOOKS

41

NOBEL LAUREATES



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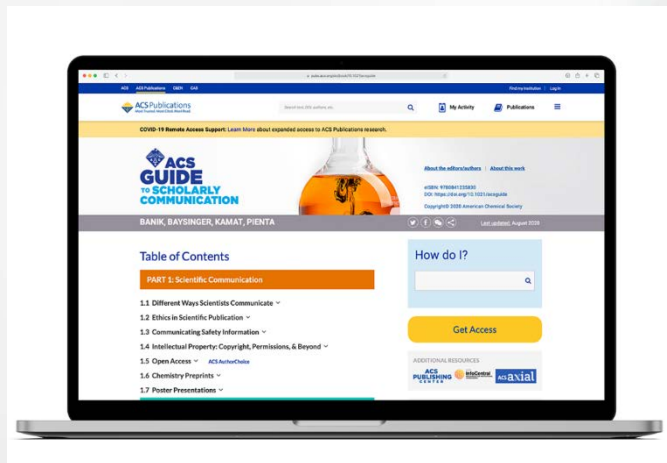
<https://doi.org/10.1021/acsguide>

■ 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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■ 适用人群：本科生，研究生，教师。



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<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。



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c&en covers:

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- Career and employment info
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- Chemical regulation



1923



1943



1969



2015



2016

...2016 AND BEYOND

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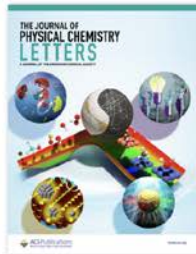
The screenshot displays the ACS Publications website. At the top, there is a navigation bar with links for ACS, ACS Publications, C&EN, and CAS, along with a 'Log In' option. A search bar is prominently featured, containing the placeholder text 'Search text, DOI, authors, etc.'. Below the search bar, there are four main navigation categories: 'FOR ORGANIZATIONS', 'FOR AUTHORS', 'EVENTS & CONFERENCES', and 'OPEN SCIENCE'. The main content area features a large banner with the text 'Most Trusted. Most Cited.' and a sub-headline 'ACS Publications' commitment to publishing high-quality addresses the world's most important challenges. A yellow callout box highlights the search bar and contains the text: '检索词, 检索式, DOI 检索, 引文检索, 作者名检索'. To the right of the banner, there is a 'NEW & NOTEWORTHY' section with three items: 'Discover ACS Publications Events', 'Celebrate Earth Week 2022 with Resources from the Journal of Chemical Education', and 'ACS Publications 2021 Year in Review'. Below the banner, there is a 'Browse Content' section with seven color-coded tiles for different subject areas: 'All Subjects', 'Analytical', 'Applied', 'Biological', 'Materials Science & Engineering', 'Organic-Inorganic', and 'Physical'. The 'Biological' tile is selected, and a filter bar below it shows 'Filter by Letter: A | B | C | E | I | J | M | O' and a 'Remove Filters' button. The bottom of the page shows the start of a list of results, including 'A', 'ACS ES&T Engineering', 'ACS Synthetic Biology', and 'Journal of Agricultural and Food'.

ACS Editors' Choice 编辑良择



课程签到码

ACS Editors' Choice Based on recommendations from the scientific editors of ACS Journals. See all articles.



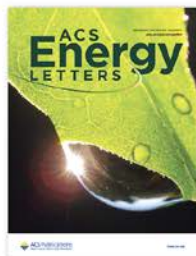
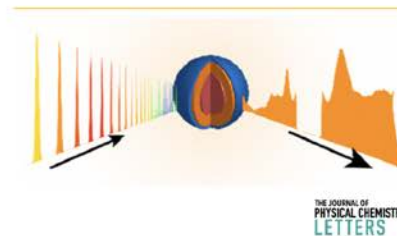
Fluctuations in the Photoluminescence Excitation Spectra of Individual Semiconductor Nanocrystals

Robert C. Keitel, Raphael Brechtbühler, Ario Cocina, Felipe V. Antolinez, Stefan A. Meyer, Sander J. W. Vonk, Henar Rojo, Freddy T. Rabouw, and David J. Norris*

J. Phys. Chem. Lett. (Article) [Open Access](#) [Editors' Choice](#)

ACS Editors' Choice Date: April 29, 2024

Cite This: *J. Phys. Chem. Lett.* 2024, 15, XXX, 4844–4850



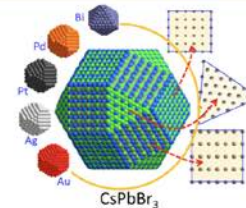
Design Strategies for Epitaxial Metal(0)-Halide Perovskite Nanocrystal Heterostructures

Narayan Pradhan*

ACS Energy Lett. (Article) [Free to Read](#) [Editors' Choice](#)

ACS Editors' Choice Date: April 28, 2024

Cite This: *ACS Energy Lett.* 2024, 9, XXX, 2378–2386



ACS Energy Letters

ACS Publishing Center 出版中心



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期刊影响因子 & 被引用次数

期刊介绍

List of issues
卷期列表

J|A|C|S

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

An ACS Transformative Journal
Editor-in-Chief: Erick Carreira
Editors & Editorial Board

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Volume 146, Issue 9
March 6, 2024

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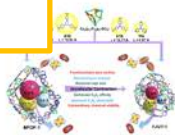
ASAP Articles

Current Issue

Authors

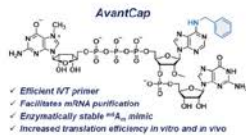
About the Journal

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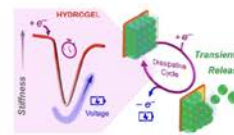
Isoreticular Contraction of Cage-like Metal–Organic Frameworks with Optimized Pore Space for Enhanced C₂H₂/CO₂ and C₂H₂/C₂H₄ ...

Lei Zhang*, ... and Shengqian Ma*
March 5, 2024



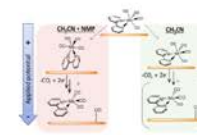
Trinucleotide mRNA Cap Analogue N⁶-Benzylated at the Site of Posttranscriptional m⁶A_m Mark Facilitates mRNA Purification and ...

Marcin Warminski, ... and Joanna Kowalska*
March 5, 2024



Electrically Powered Dissipative Hydrogel Networks Reveal Transient Stiffness Properties for Out-of-Equilibrium Operations

Roberto Baretta, ... and Marco Frasconi*
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Patrick Pfaff, Kusal T. G. Samarasinghe, Craig M. Crews*, and Erick M. Carreira*

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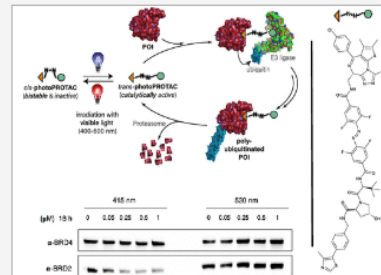
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Abstract
摘要

Abstract

Off-tissue effects are persistent issues of modern inhibition-based therapies. By merging the strategies of photopharmacology and small-molecule degraders, we introduce a novel concept for persistent spatiotemporal control of induced protein degradation that potentially prevents off-tissue toxicity. Building on the successful principle of bifunctional all-small-molecule Proteolysis Targeting Chimeras (PROTACs), we designed photoswitchable PROTACs (**photoPROTACs**) by including *ortho*-F₄-azobenzene linkers between both warhead ligands. This highly bistable yet photoswitchable structural component leads to reversible control over the topological distance between both ligands. The *azo-cis*-isomer is observed to be inactive because the distance defined by the linker is prohibitively short to permit complex formation between the protein binding partners. By contrast, the *azo-trans*-isomer is active since it can engage both protein partners to form the necessary and productive ternary complex. Importantly, due to the bistable nature of the *ortho*-F₄-azobenzene moiety employed, the photostationary state of the **photoPROTAC** is persistent, with no need for continuous irradiation. This technique offers reversible on/off switching of protein degradation that is compatible with an intracellular environment and, therefore, could be useful in experimental exploration of biological signaling pathways—such as those crucial for oncogenic signal transduction. Additionally, this strategy may be suitable for therapeutic intervention to address a variety of diseases. By enabling reversible activation and deactivation of



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Introduction

引言

Materials & Methods

材料和方法

Results

结果

Discussion

讨论

Conclusion

结论

Abbreviations

缩写

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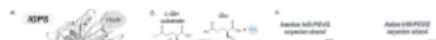
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Introduction

Proteins reshape their function in response to environmental changes through allosteric process in which two distinct sites within a protein or protein complex are functionally regulated enzymes. effector binding at a distal site alters the thermodynamic and/or kinetic reaction at the active site. (3) The transfer of chemical information between the two sites is mediated by structural (4) and/or dynamical (5) changes that generally make accessible conformation characteristic of the enzyme active state. (6,7) To attain such a catalytic binding finely tunes the enzyme dynamic conformational ensemble by reshaping the relative conformational states and/or the time scales of structural fluctuations and conformational bidirectional communication between distal sites occurs at the ternary complex, i.e., when substrate are bound at their respective sites, and propagates through dynamic network interactions. (9-10) Capturing the time evolution of the allosteric activation of enzymes at ternary complex involves deciphering the interplay of fast and slow conformational dynamics, substrate binding. (11) The transient nature of both the ternary complex and the allosteric undergoing turnover hampers the structural and dynamic characterization of allosteric activation. Identification of functionally relevant states. (12-17) It is therefore not surprising that this remains hidden for several enzymes.

Allosteric regulation operating in the model enzyme imidazole glycerol phosphate synthase (IGPS) from *Thermotoga maritima* has been investigated from structural and dynamical perspectives. (18-30) IGPS is a heterodimeric enzyme belonging to class I glutamine amidotransferases (GATase) that encompasses the catalytic interplay between HisH and HisF subunits (Figure 1). HisH catalyzes glutamine hydrolysis producing glutamate and ammonia. The HisF cyclase monomer couples the ammonia produced by HisH, which migrates through an internal tunnel, with N-[(5-phosphoribulose-5-phosphoribulose)-5-aminoimidazole-4-carboxamide ribonucleotide (PRFAR)]. The latter also acts as the allosteric effector for the reaction occurring in HisH. The binding of PRFAR, ca. 30 Å far away from the HisH active site, enhances 4500-fold the basal glutaminase activity of IGPS, while the substrate affinity is only moderately altered. (30)

Figure 1



ARTICLE SECTIONS

Jump To ^

- Abstract
- Introduction
- Results
- Discussion
- Conclusions
- Methods
- Supporting Information
- Author Information
- Acknowledgments
- Abbreviations
- References

Supporting Information

The Supporting Information is available free of charge at <https://pubs.acs.org/doi/10.1021/jacs.1c12629>.

Detailed description of computational methods, supplements, and movies (PDF)

Movie S1: conventional molecular dynamics simulations: tryoxanion hole formation in substrate-free PRFAR-IGPS (MP4)

Movie S2: accelerated molecular dynamics simulations: sp-Gln substrate binding in the HisH active site (MP4)

Movie S3: accelerated molecular dynamics simulations: sp-Gln substrate binding in IGPS (global view) (MP4)

Movie S4: accelerated molecular dynamics simulations: allosteric activation of IGPS in the ternary complex (MP4)

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Reversible Spatiotemporal Control of Induced Protein Degradation by Bistable PhotoPROTACs

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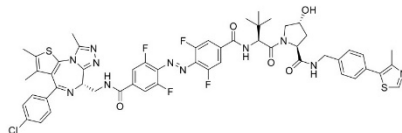
³Department of Chemistry, Yale University, New Haven, CT 06511, United States

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Content

| | |
|---|----|
| 1. Supplementary Figures | 2 |
| 2. Materials and Methods | 9 |
| 2.1 General Synthetic Methods | 9 |
| 2.2 Safety Statement | 9 |
| 2.3 Analysis of Synthetic Compounds | 9 |
| 2.4 Photochemical Characterization | 9 |
| 2.5 Cell Culture | 9 |
| 2.6 Irradiation of photoPROTAC | 9 |
| 2.7 Western Blot Analysis | 9 |
| 2.8 GSH Stability Test | 9 |
| 2.9 Quantum Yield Measurement | 9 |
| 3. Synthetic Procedures | 14 |
| 4. NMR Spectra | 34 |
| 5. SI-references | 63 |

(2S,4R)-1-((S)-2-(4-((E)-4-(((S)-4-(4-chlorophenyl)-2,3-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. 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).

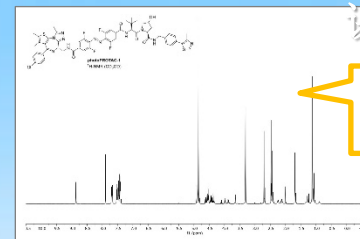
¹H NMR (500 MHz, CD₃OD) δ = 8.87 (s, 1H), 7.70 (dd, J = 5.1, 1.6 Hz, 2H), 7.67 (dd, J = 5.1, 1.6 Hz, 2H), 7.52 (d, J = 8.5 Hz, 2H), 7.48 (d, J = 8.5 Hz, 2H), 7.44 – 7.40 (m, 4H), 4.91 (s, 1H), 4.65 – 4.50 (m, 4H), 3.87 (dd, J = 13.6, 7.0 Hz, 2H), 4.35 (d, J = 15.4 Hz, 1H), 3.98 (d, J = 11.0 Hz, 1H), 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.

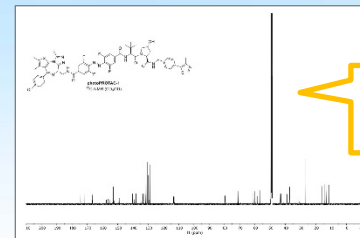
¹⁹F NMR (471 MHz, CD₃OD) δ = -121.4, -121.5.

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

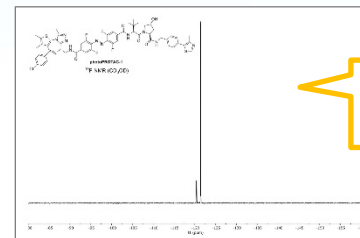
ESI-HRMS: calcd. for C₃₆H₃₅ClF₆N₁₁O₅S₂ [M+H]⁺ 1108.3135, found 1108.3144.



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¹³C-NMR



¹⁹F-NMR

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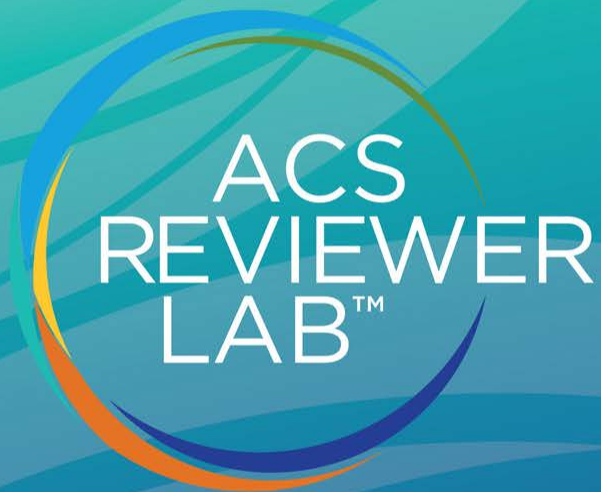
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