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主讲人：赵璟 ACS数据库培训师
Saturday, May 6, 2023 广东石油化工学院





1. ACS 数据库期刊最新动态
2. ACS 数据库平台功能和使用
3. 期刊投稿注意事项
4. 期刊科技论文写作
5. 同行评审流程



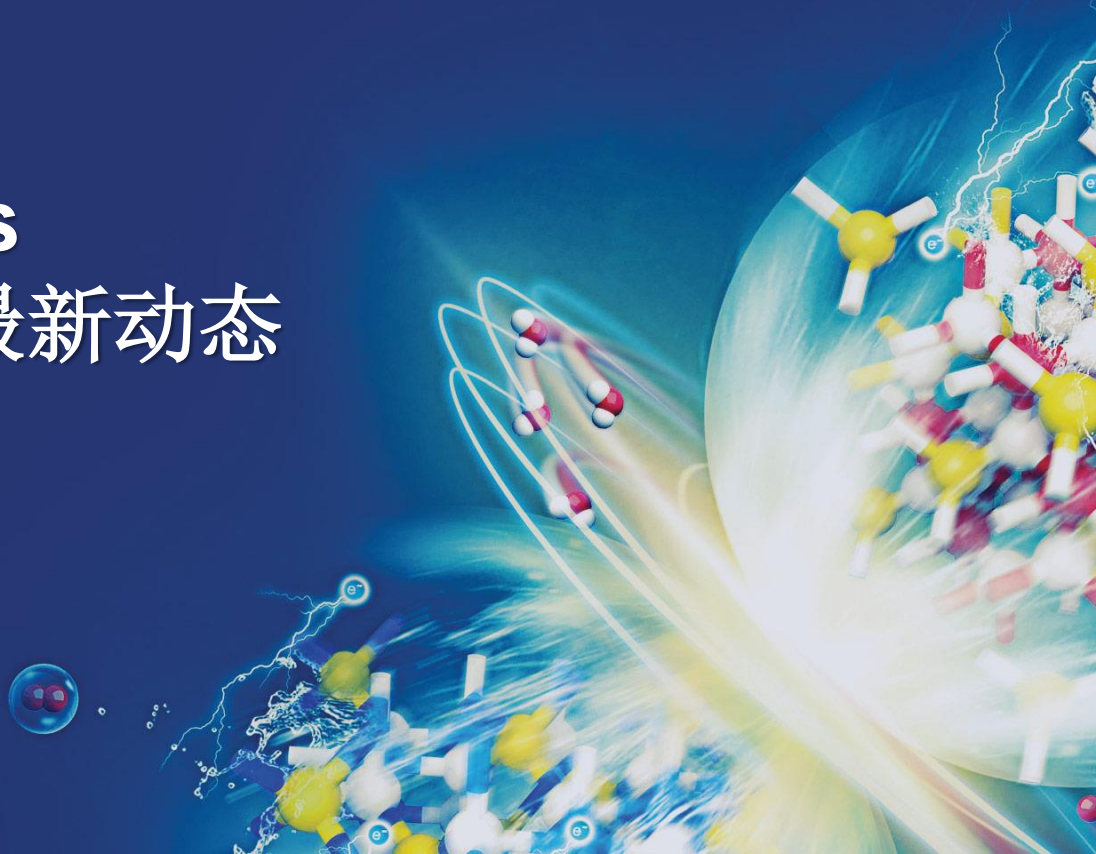


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ACS 数据库期刊最新动态



ACS Is the World's Largest Scientific Society

- **ACS**美国化学会，成立于**1876**年
- **140**多个国家，超过**150,000**会员
- 出版高品质的专业科学期刊
- 促进化学及相关学科的交流与发展



ACS 期刊整体介绍

75 种高品质的科学期刊

影响因子中位数 **5.780**

被引用次数超过 **340 万**

ACS期刊被誉为化学领域里
被引用次数最多的期刊。

在 11 个学科领域里，
具有最高的影响因子，
或者最高的被引用次数，
包含 5 个核心化学学科。



覆盖广泛的学科领域

普通化学

晶体学

无机化学

有机化学

物理化学

分析化学

高分子科学

材料科学

纳米科学

化学工程

能源与燃料

环境科学

食品科学与技术

农学与林学

理论化学

计算化学

化学信息学

分子生物学

生物化学

生物技术

临床化学

药物化学

药理学和药剂学

毒理学

Journal of the American Chemical Society

Impact Factor 2021: 16.383 | Citations 2021: 631,578



2021 IMPACT FACTOR

16.383

期刊介绍

美国化学会志 JACS 是 ACS 出版社的第一本期刊。

创刊于1879年，所有化学和科学交叉领域的知名期刊。

该期刊致力于发表基础研究论文，每年出版 2500篇科研文章，每周出版一期。总被引用次数超过 63 万次。

综述期刊

■ *Chemical Reviews*

对各个化学领域的重要成果展开全面的评论和综述，主要发表关于开创性研究的权威综述。

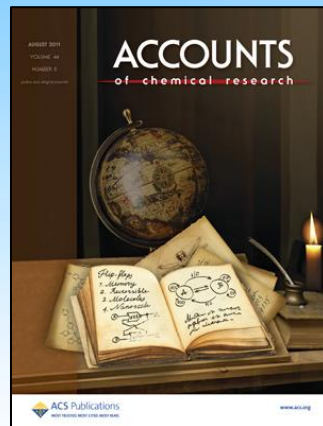
影响因子 **IF = 72.087**，是化学领域里影响因子排名第 1 的期刊。

在 Journal Citation Reports 收录的 13,000 多种期刊中排名第 18 位。



Chemical Reviews

2021 IMPACT FACTOR
72.087



Accounts of Chemical Research

2021 IMPACT FACTOR
24.466

Organic-Inorganic Chemistry 有机化学与无机化学

■ The Journal of Organic Chemistry

有机化学领域的旗舰型期刊。



4.198
Impact
Factor

■ Organic Letters

有机化学快报期刊，也是有机化学领域被引用次数最多的期刊。



6.072
Impact
Factor



3.858
Impact
Factor

■ Inorganic Chemistry

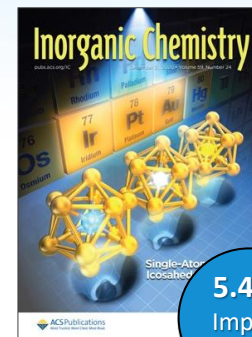
无机化学领域被引用次数最多的期刊。



3.837
Impact
Factor

■ Crystal Growth & Design

晶体学领域被引用次数最多的期刊。



5.436
Impact
Factor



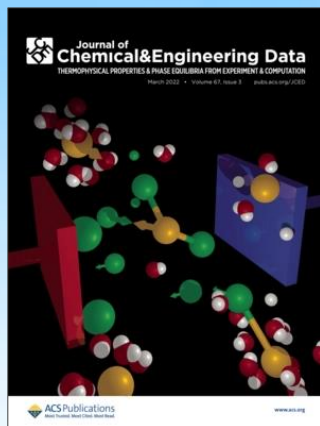
4.010
Impact
Factor

Energy and Transportation 化工与能源



Industrial & Engineering Chemistry Research

2021 IMPACT FACTOR
4.326



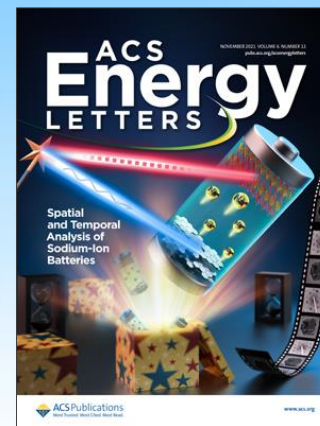
Journal of Chemical & Engineering Data

2021 IMPACT FACTOR
3.119



Energy & Fuels

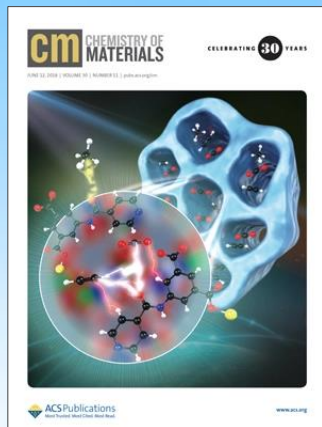
2021 IMPACT FACTOR
4.654



ACS Energy Letters

2021 IMPACT FACTOR
23.991

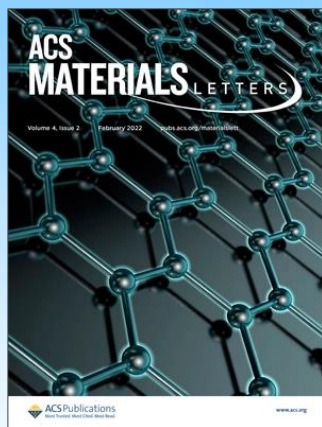
Materials Science & Engineering 材料科学与工程



*Chemistry of
Materials*

2021 IMPACT FACTOR

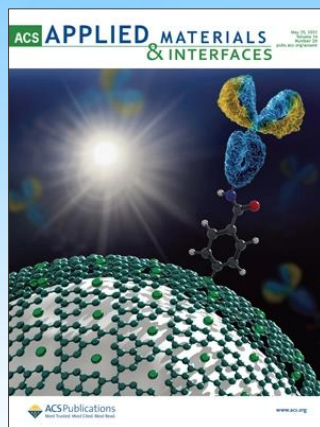
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*ACS Materials
Letters*

2021 IMPACT FACTOR

11.170



*ACS Applied
Materials &
Interfaces*

2021 IMPACT FACTOR

10.383

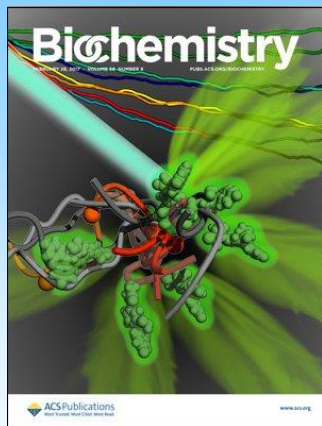


ACS Catalysis

2021 IMPACT FACTOR

13.700

Biotechnology 生物技术与生物化学



Biochemistry

2021 IMPACT FACTOR

3.321



ACS Synthetic Biology

2021 IMPACT FACTOR

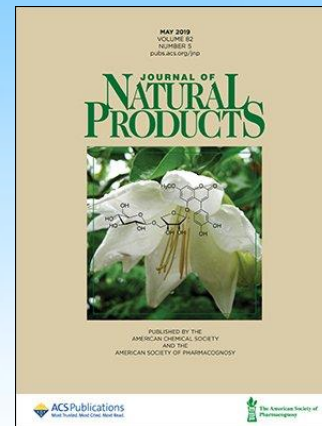
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Bioconjugate Chemistry

2021 IMPACT FACTOR

6.069



Journal of Natural Products

2021 IMPACT FACTOR

4.803

Environmental Science 环境科学与技术



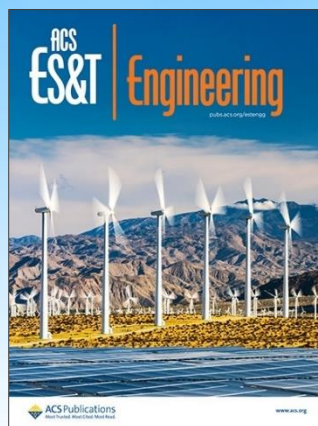
*Environmental
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Technology*

2021 IMPACT FACTOR
11.357



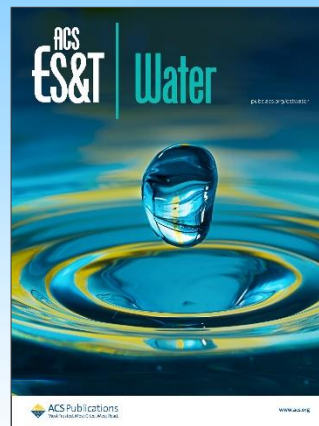
*Environmental
Science &
Technology Letters*

2021 IMPACT FACTOR
11.558



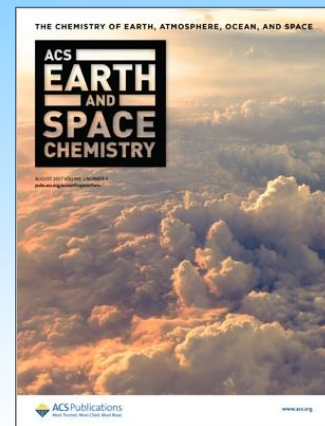
*ACS ES&T
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Space Chemistry*

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Biological Filter by Letter: A B C E I J M O Remove Filters

A ACS ES&T Engineering ACS Synthetic Biology Journal of Agricultural and Food

ACS 数据库平台主界面 pubs.acs.org

The screenshot displays the ACS Publications website main interface. On the left, there is a sidebar with 'CONTENT TYPES' including 'All Types', 'Journals' (highlighted with a dotted border), 'Books and Reference', and 'News'. Below this is a 'SUBJECTS' section with checkboxes for Analytical, Applied, Biological, Materials Science & Engineering, Organic-Inorganic, and Physical. The main content area is divided into three columns: 'A', 'B', and 'C'. The 'A' column lists journals such as 'Accounts of Chemical Research', 'ACS Agricultural Science & Technology', 'ACS Applied Bio Materials', 'ACS Applied Electronic Materials', 'ACS Applied Energy Materials', 'ACS Applied Engineering Materials', 'ACS Applied Materials & Interfaces', 'ACS Applied Nano Materials', 'ACS Applied Optical Materials', 'ACS Applied Polymer Materials', 'ACS Bio & Med Chem Au', 'ACS Biomaterials Science & Engineering', 'ACS Catalysis', 'ACS Central Science', 'ACS Chemical Biology', 'ACS Chemical Health & Safety', 'ACS Chemical Neuroscience', 'ACS Combinatorial Science', 'ACS Earth and Space Chemistry', and 'ACS Energy Letters'. The 'B' column lists journals such as 'ACS Engineering Au', 'ACS Environmental Au', 'ACS ES&T Engineering', 'ACS ES&T Water', 'ACS Food Science & Technology', 'ACS Infectious Diseases', 'ACS Macro Letters', 'ACS Materials Au', 'ACS Materials Letters', 'ACS Measurement Science Au', 'ACS Medicinal Chemistry Letters', 'ACS Nano', 'ACS Nanoscience Au', 'ACS Omega', 'ACS Organic & Inorganic Au', 'ACS Pharmacology & Translational Science', 'ACS Photonics', 'ACS Physical Chemistry Au', 'ACS Polymers Au', 'ACS Sensors', 'ACS Sustainable Chemistry & Engineering', 'ACS Synthetic Biology', and 'Analytical Chemistry'. The 'C' column lists journals such as 'Biochemistry', 'Bioconjugate Chemistry', 'Biomacromolecules', 'Biotechnology Progress', 'Chemical & Biomedical Imaging', 'Chemical Research in Toxicology', 'Chemical Reviews', 'Chemistry of Materials', 'Crystal Growth & Design', 'Energy & Fuels', 'Environmental Science & Technology', 'Environmental Science & Technology Letters', 'I&EC Product Research and Development', 'Industrial & Engineering Chemistry', 'Industrial & Engineering Chemistry Analytical Edition', and 'Industrial & Engineering Chemistry Fundamentals'. A yellow callout box on the right side of the page contains the text: '数据库资源列表', 'ACS 期刊列表', 'ACS 电子图书', and 'C&EN 化工新闻'.

Journal Homepages 期刊界面

The screenshot shows the homepage of the Journal of Medicinal Chemistry. At the top left, the journal title "Journal of Medicinal Chemistry" is displayed, along with the tagline "An ACS Transformative Journal" and the Editor-in-Chief's name, Craig W. Lindsley. A "Submit Manuscript" button is visible in the top right. A callout box labeled "期刊影响力 & 被引用次数" (Journal Impact & Citations) points to the journal's metrics: Impact Factor 2021: 8.039 | Citations 2021: 92,468 | CiteScore 2021: 11.5. Another callout box labeled "About the Journal 期刊介绍" (About the Journal) points to the "About the Journal" link in the navigation bar. The navigation bar includes "List of Issues", "ASAP Articles", "Current Issue", "Authors", and "About the Journal". A callout box labeled "List of issues 卷期列表" (List of issues) points to the "List of Issues" link. The main content area features three article teasers. The first, titled "From a Cone Snail Toxin to a Competitive MC4R Antagonist", includes a graph showing the inhibition of MC4R by N-CTX-Utg1a and HT1-0. The second, "Discovery of Novel Imidazo[4,5-c]quinoline Derivatives to Treat Inflammatory Bowel Disease (IBD) by Inhibiting Multiple Proinflammatory Signaling Pathways and Restoring Intestinal", includes a chemical structure and a list of key findings. The third, "Discovery of a Novel G-Quadruplex and Histone Deacetylase (HDAC) Dual-Targeting Agent for the Treatment of Triple-Negative Breast Cancer", includes a diagram of the G-quadruplex and HDAC interaction.

Journal of Medicinal Chemistry | Related Journals

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Editors & Editorial Board

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Volume 65, Issue 16
August 25, 2022

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List of issues
卷期列表

From a Cone Snail Toxin to a Competitive MC4R Antagonist

Steve Reynaud, ... and Nicolas Gilles*

September 5, 2022

Discovery of Novel Imidazo[4,5-c]quinoline Derivatives to Treat Inflammatory Bowel Disease (IBD) by Inhibiting Multiple Proinflammatory Signaling Pathways and Restoring Intestinal

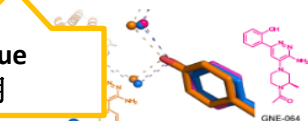
Discovery of a Novel G-Quadruplex and Histone Deacetylase (HDAC) Dual-Targeting Agent for the Treatment of Triple-Negative Breast Cancer

Structure Optimized Potent Disrupts Interact

Journal Homepages 期刊界面

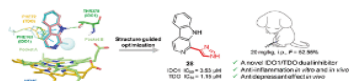
Current Issue 最新卷期

Current Issue The latest published issue of Journal of Medicinal Chemistry. [See all articles.](#)



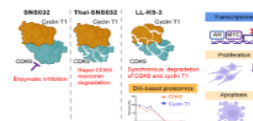
GNE-064: A Potent, Selective, and Orally Bioavailable Chemical Probe for the Bromodomains of SMARCA2 and SMARCA4 and the Fifth ...

Alexander M. Taylor*, Chris Bailey, ...
August 5, 2022



Discovery of 1-(Hetero)aryl- β -carboline Derivatives as IDO1/TDO Dual Inhibitors with Antidepressant Activity

Yu Zhang, Yingchun Li, Xiang Chen, Xuan Chen, ...
August 7, 2022



Discovery of Small-Molecule Degraders of the CDK9-Cyclin T1 Complex for Targeting Transcriptional Addiction in ...

Jiacheng Li, Ting Liu, Yuanli Song, ...
August 4, 2022

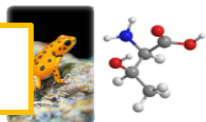


**Build—
Paradig
Synthes**

Mélanie Uq
August 9, 2022

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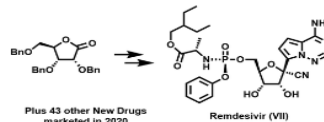
Think Biologically, Act Chemically

Matthew J. LaMarche*
August 18, 2022



Nucleic-Acid-Based Targeted Degradation in Drug Discovery

Wei Wang, ... and Chunquan Sheng*
August 2, 2022



Plus 43 other New Drugs marketed in 2020

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Andrew C. Flick, ... and Christopher J. O'Donnell*
July 14, 2022

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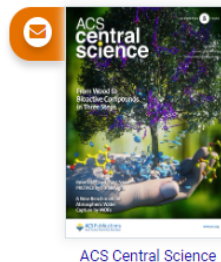
Reversible Spatiotemporal Control of Induced Protein Degradation by Bistable PhotoPROTACs

Patrick Pfaff, Kusal T. G. Samarasinghe, Craig M. Crews*, and Erick M. Carreira*

Cite this: ACS Cent. Sci. 2019, 5, 10, 1682–1690
Publication Date: September 17, 2019
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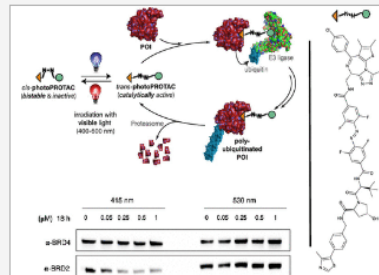
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Abstract 摘要

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



Article Pages 文章界面

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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作者信息

Acknowledgment

致谢

References

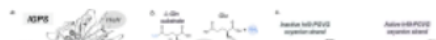
参考文献

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-phosphoribulose-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



DOI: 1GPW
DOI: 9ZR4
DOI: 7AC8

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, supplementary materials, and movies (PDF)

- Movie S1: conventional molecular dynamics simulations: tryptophan 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)

Time Evolution of the Millisecond Allosteric Activation of Imidazole Glycerol Phosphate Synthase

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Article Pages 文章界面

The screenshot shows the article page for "Time Evolution of the Millisecond Allosteric Activation of Imidazole Glycerol Phosphate Synthase" in ACS Catalysis. The page is divided into three main sections: Reference, Cited By, and Recommended Articles. The Reference section lists five articles, with the first one highlighted by a callout. The Cited By section shows one citation. The Recommended Articles section lists three related articles, with the first one highlighted by a callout. The ACS Publications logo and navigation icons are visible at the top.

Reference 参考文献

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Cited By 施引文献

This article is cited by 1 publications.

1. Robert Kourist, Shina Caroline Lynn Kamerlin. A Structural View into the Complexity of Carbon Dioxide Fixation. *ACS Central Science* **2022**, Article ASAP

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Role of Water in Proton-Coupled Electron Transfer between Tyrosine and Cysteine in Ribonucleotide Reductase
Journal of the American Chemical Society

Streamlined Alkylation via Nickel-Hydride-Catalyzed Hydrocarbonation of Alkenes
Journal of the American Chemical Society

Site-Selective Deuteration of Amino Acids through Dual-Protein Catalysis
Journal of the American Chemical Society

Metal–Organic Frameworks in Mixed-Matrix Membranes for High-Speed Visible-Light Communication
Journal of the American Chemical Society

快速检索

The screenshot displays the ACS Publications website interface. At the top, there is a navigation bar with the ACS Publications logo and the tagline "Most Trusted. Most Cited. Most Read." on the left, and a search bar in the center. The search bar contains the text "Search text, DOI, authors, etc." and a magnifying glass icon. To the right of the search bar are links for "My Activity" and "Publications".

Below the navigation bar, there are four main categories: "FOR ORGANIZATIONS", "FOR AUTHORS", "EVENTS & CONFERENCES", and "OPEN SCIENCE".

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IN CHEMISTRY 2010

AWARDS:
Three chemists share
prize for palladium-
catalyzed cross-
couplings

C&EN
news of the week
OCTOBER 11, 2010 EDITED BY WILLIAM G. SCHULZ & LAUREN K. WOLF

NOBEL PRIZE IN CHEMISTRY

AWARDS: Three chemists share prize for palladium-catalyzed cross-couplings

NOBEL LAUREATES garner medals minted in gold, but it was work with another noble metal—palladium—that earned three chemists the big prize this year. Richard F. Heck, Ei-ichi Negishi, and Akira Suzuki were jointly awarded the 2010 Nobel Prize in Chemistry “for palladium-catalyzed cross-couplings in organic synthesis.” Along with their medals, the three chemists will also share \$1.5 million.

Palladium-catalyzed cross-coupling reactions, in which the metal is used to catalyze the formation of carbon-carbon bonds, are widely used to make complex molecular structures. They have been employed to make materials, pharmaceuticals, and other biologically active compounds.

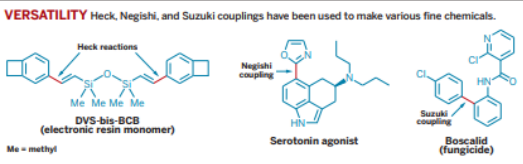
uses Pd to weed an aryl halide with an olefin. “It’s turned out to be something of value to the chemistry community,” Heck says of the reaction that bears his name.

In 1977, Negishi, who is now 75 and the Herbert C. Brown Distinguished Professor of Organic Chemistry at Purdue University, used Pd to catalyze couplings of organic reagents with organohalides. Two years later, Suzuki, who is 80 and currently a chemistry professor at Japan’s Hokkaido University, began developing a Pd-catalyzed coupling of organoboron compounds with organohalides.

“The key word here is versatility,” said Negishi, when describing his chemistry to reporters during an early-morning phone call on the day of the announcement. “One of our dreams is to be able to synthesize any organic compound of importance, whether it is a medicinally important compound or important from the point of view of materials science.”

He likened Pd-catalyzed cross-couplings to the Grignard reaction, a carbon-carbon bond-forming reaction developed by Victor Grignard, the 1912 Nobel Laureate in Chemistry. “The Grignard reaction made possible the synthesis of a wide variety of organic com-

VERSATILITY Heck, Negishi, and Suzuki couplings have been used to make various fine chemicals.



Heck reactions
Negishi coupling
Suzuki coupling

DVS-bis-BCB (electronic resin monomer)
Me = methyl

Serotonin agonist
Boscalid (fungicide)

Heck
Negishi
Suzuki

“This is a very exciting day for organic chemistry,” comments Stephen L. Buchwald, a chemistry professor at Massachusetts Institute of Technology. “This is a well-deserved award that is long overdue. It is hard to overestimate the importance of these processes in modern-day synthetic chemistry. They are the most used reactions by those in the pharmaceutical

pounds,” Negishi told reporters. “We came up with a totally different method that not only complements but also surpasses in versatility Grignard chemistry.”

“The award recognizes fundamental chemistry at its best,” says American Chemical Society President and Purdue University professor Joseph S. Francisco. “The beauty of this work is that these cross-couplings are

Richard F. Heck
Ei-ichi Negishi
Akira Suzuki

Chem. Eng. News 2010, 88, 41, 7

Case Study 检索案例

Research Topic: Palladium-Catalyzed Cross-Coupling Reactions 钯催化交叉偶联

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Yingsheng Zhao, Haibo Wang, Xiaohui Hou, Yanhe Hu, Aiwen Lei, Heng Zhang, and Lizheng Zhu


Journal of the American Chemical Society 2006, 128, 47, 15048-15049 (Communication)
Publication Date (Web): November 4, 2006
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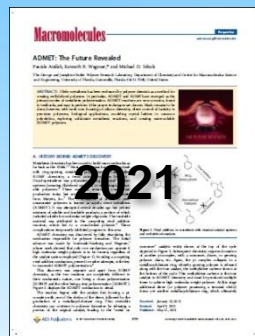
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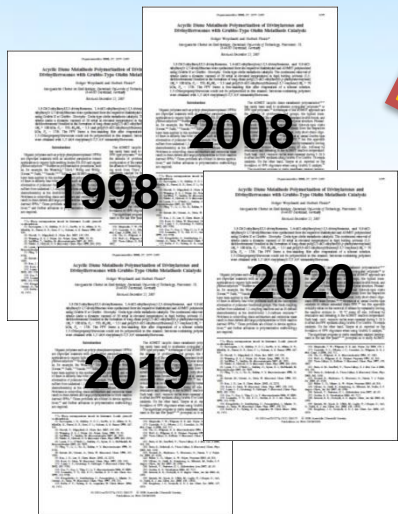


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Pascale Atallah, Kenneth B. Wagener, and Michael D. Schulz
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Open metathesis has been embraced by polymer chemists as a method for creating well-defined polymers. In particular, ADMET and ROMP have emerged as the primary modes of metathesis polymerization. ADMET reactions are now common, found in textbooks, and ...



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Figure 1 of 9

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Macromolecules Proposed for
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ADMET: The Future Revealed

Parvula Aralik, Kenneth S. Wagoner,* and Michael D. Schuch

The George and Cynthia Baker Wilson Research Laboratory, Department of Chemistry and Center for Macromolecular Science and Engineering, University of Florida, Gainesville, Florida 32611-7030, United States

ABSTRACT: Cyclic metathesis has been introduced by polymer chemists as a method for creating well-defined polymers. In particular, ADMET and ROMP have emerged as the primary methods of cyclic olefin polymerization. ADMET reactions are now commonly found in textbooks, and many in practice. The progress in this area has been reviewed in this article, from the early work on ring-opening metathesis polymerization, through the development of ADMET reactions, to the current state of the field. The article covers the development of ADMET reactions, the role of ADMET in the synthesis of well-defined polymers, and the current state of the field.



A. HISTORY BEHIND ADMET'S DISCOVERY

Metathesis chemistry has long been used to build macromolecules as far back as the 19thth century. Most of the research that has been done with ring-opening metathesis polymerization (ROMP) (also called ADMET) chemistry, a term coined by Tim Saegert.¹ ADMET reactions are now prominent in many chemical textbooks (including *Advanced Chemistry* for high school, *Organic Chemistry* for college, and *Organic Chemistry* for graduate students). These materials remain in commercial production today, but are primarily used to make small molecules (like plastics, etc.). The commercialization of ADMET to make macromolecular polymers is known as cyclic olefin metathesis (COMET). It was first reported in 1962 by the group of Michael Szwarc and his colleagues, a reaction in which ADMET metathesis was used to make high molecular weight polymers. The ADMET reaction was attributed to the competing ring-opening metathesis, which led to a well-defined polymer.² These conclusions were supported by kinetic progress in this area.

ADMET chemistry was discovered by fully elucidating the mechanism responsible for polymer formation. The initial studies were made by G. V. Schulz, G. V. Schulz, and Wagoner,³ who were able to show that only one mechanism can operate to form high molecular weight polymers in the ADMET reaction, the ADMET reaction mechanism (Figure 1). Avoiding a competing ring-opening metathesis pathway is the key to ADMET polymerization.

This discovery was separate and apart from ROMP chemistry, as the two reactions are completely different in their mechanism of action, even being a chain polymerization (ROMP) and the other being a step polymerization (ADMET). Figure 2 depicts the ADMET mechanism in detail.

The reaction begins with the catalyst first forming a pi-complex with one of the olefins of the diene, followed by the generation of a metallacyclobutane ring. This metallacyclobutane ring can continue to polymerize forward by releasing a portion of the original catalyst, leading to the "normal" or "nonselective" ADMET reaction. At the top of the cycle depicted in Figure 2, the ADMET reaction mechanism is shown. ADMET reactions, with a necessary, slow, ring-opening polymer chain end. Again, the pi-complex undergoes a ring-opening metathesis reaction, releasing a portion of the catalyst and forming a new ADMET chain end. At this stage, additional ADMET reactions can occur, leading to high molecular weight polymers. At this stage, additional ADMET reactions can occur, leading to high molecular weight polymers.

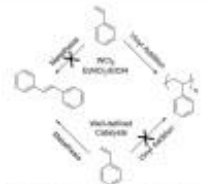


Figure 1. ADMET reaction mechanism with chemical catalyst species and well-defined polymer.

Figure 2. ADMET reaction mechanism with chemical catalyst species and well-defined polymer.

Received: January 10, 2013
Revised: April 5, 2013
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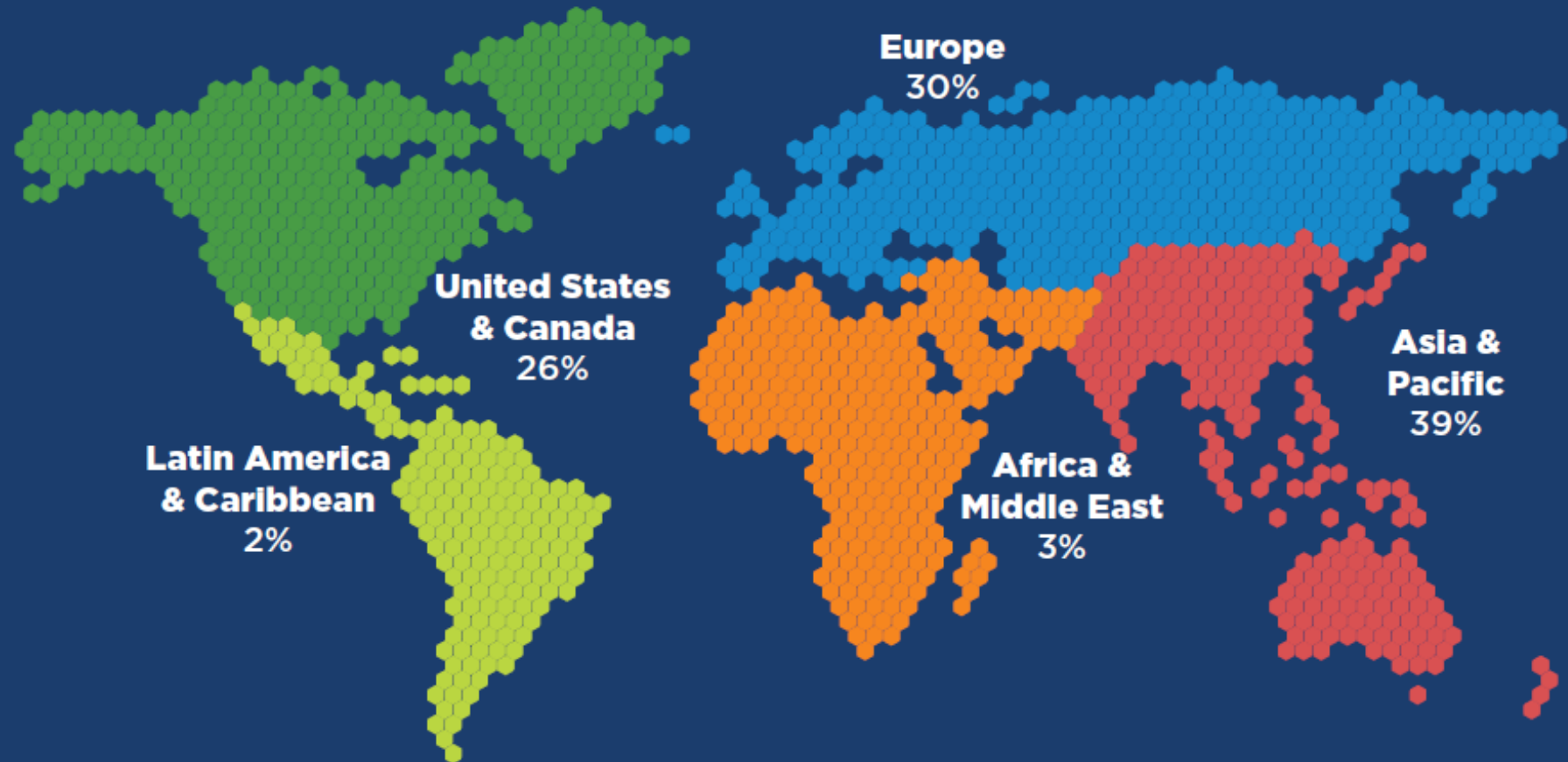


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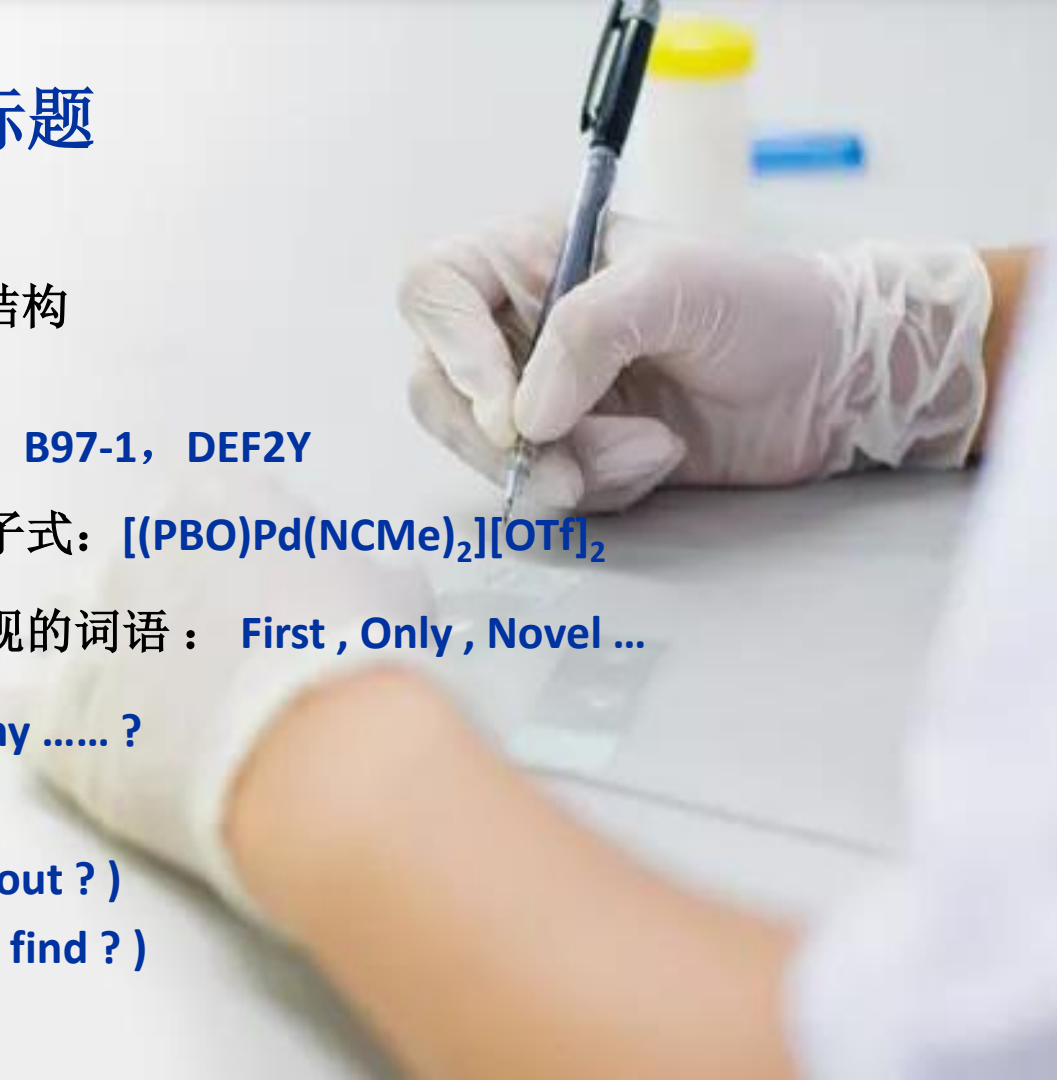
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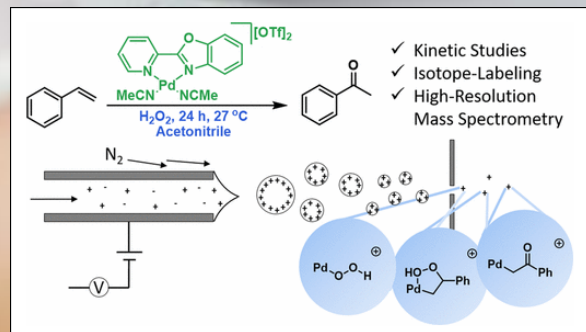
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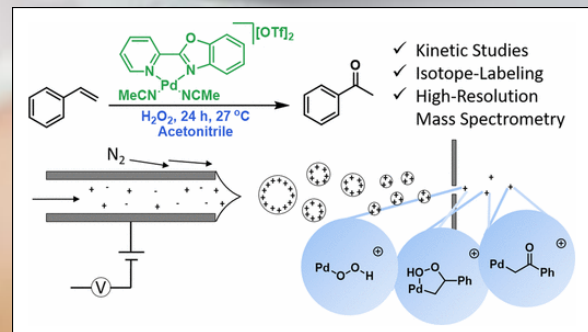
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ABSTRACT :

Kinetic studies, isotope labeling, and in situ high-resolution mass spectrometry are used to elucidate the mechanism for the catalytic oxidation of styrenes using aqueous hydrogen peroxide (H_2O_2) and the cationic palladium(II) compound, $[(\text{PBO})\text{Pd}(\text{NCMe})_2][\text{OTf}]_2$ (PBO = 2-(pyridin-2-yl)benzoxazole).

Previous studies have shown that this reaction yields acetophenones with high selectivity. We find that H_2O_2 binds to Pd(II) followed by styrene binding to generate a Pd-alkylperoxide that liberates acetophenone by at least two competitive processes, one of which involves a palladium enolate intermediate that has not been previously observed in olefin oxidation reactions. We suggest that acetophenone is formed from the palladium enolate intermediate by protonation from H_2O_2 . We replaced hydrogen peroxide with t-butyl hydroperoxide and found that, although the palladium enolate intermediate was observed, it was not on the major product-generating pathway, indicating that the form of the oxidant plays a key role in the reaction mechanism.



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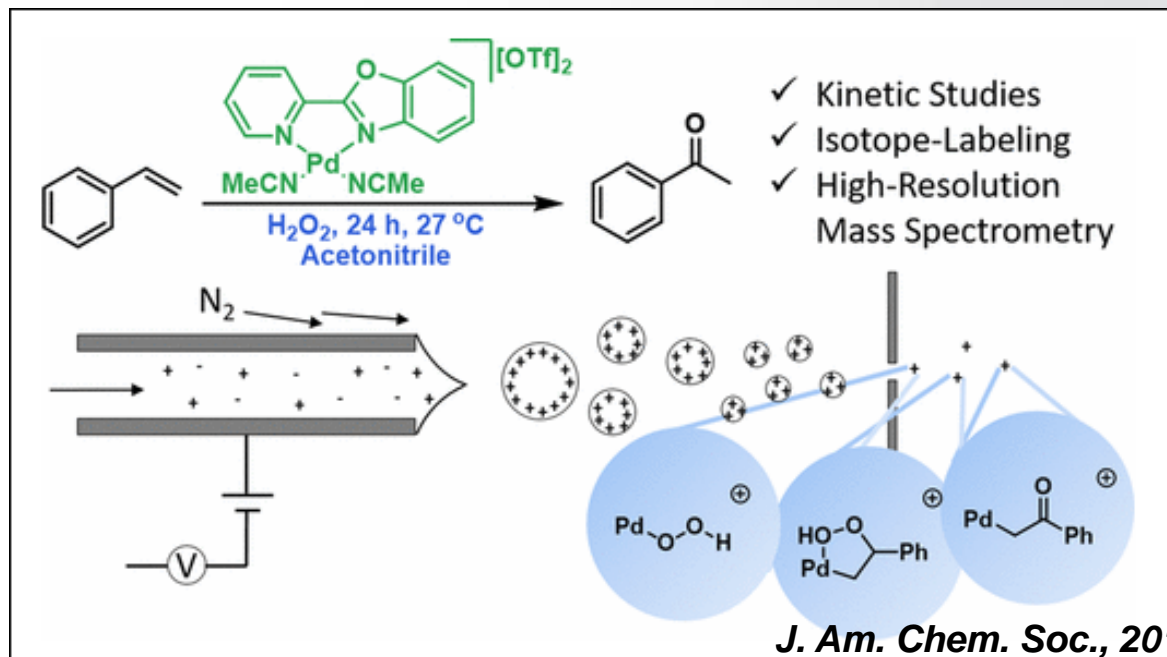
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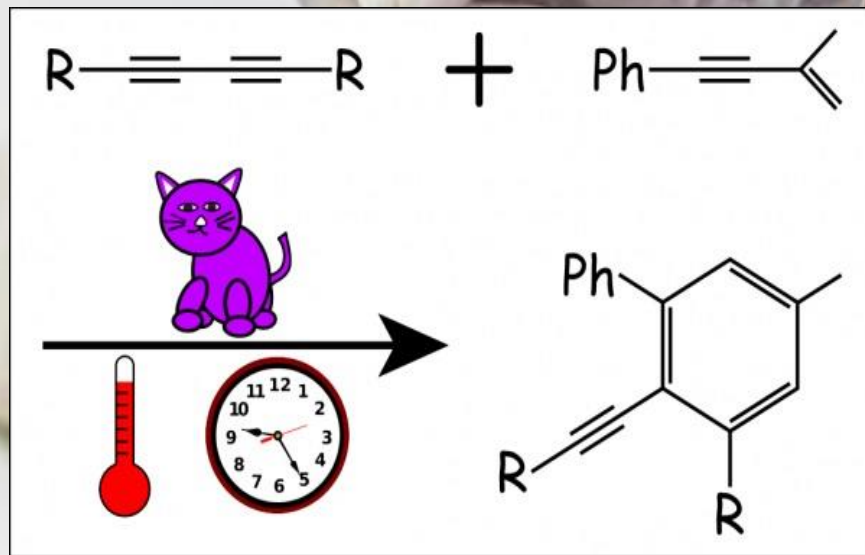
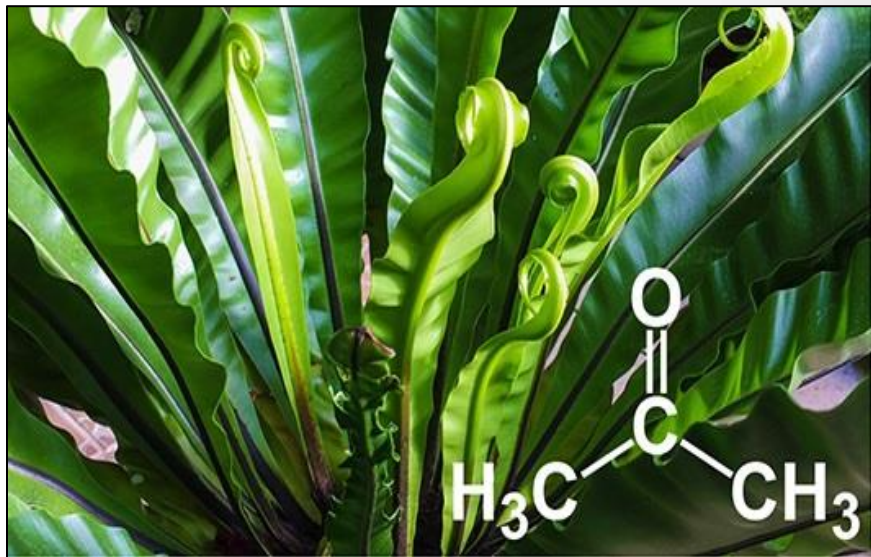
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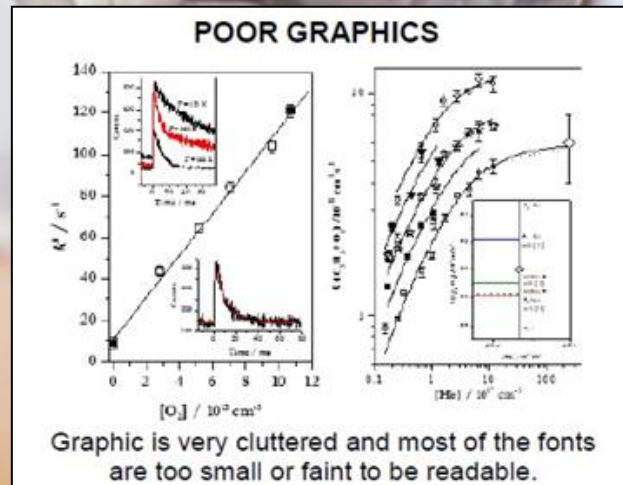
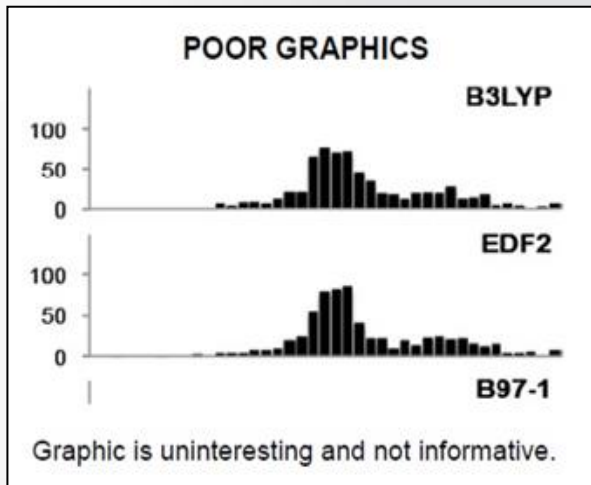
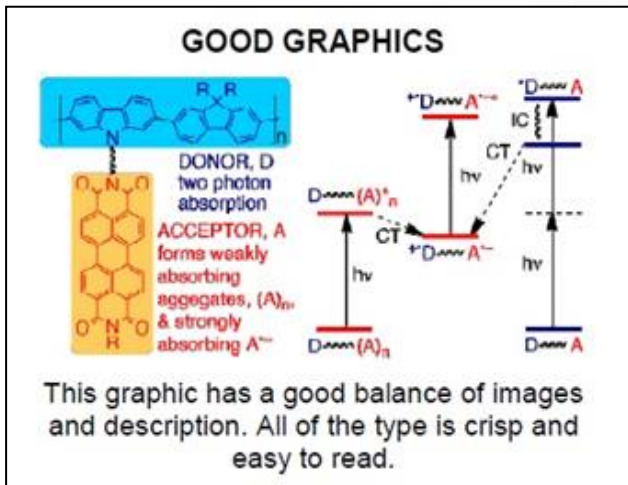
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✗ **in the lab**

✓ **in the laboratory**



语言文字表述 Language and Text

避免使用不恰当的词语

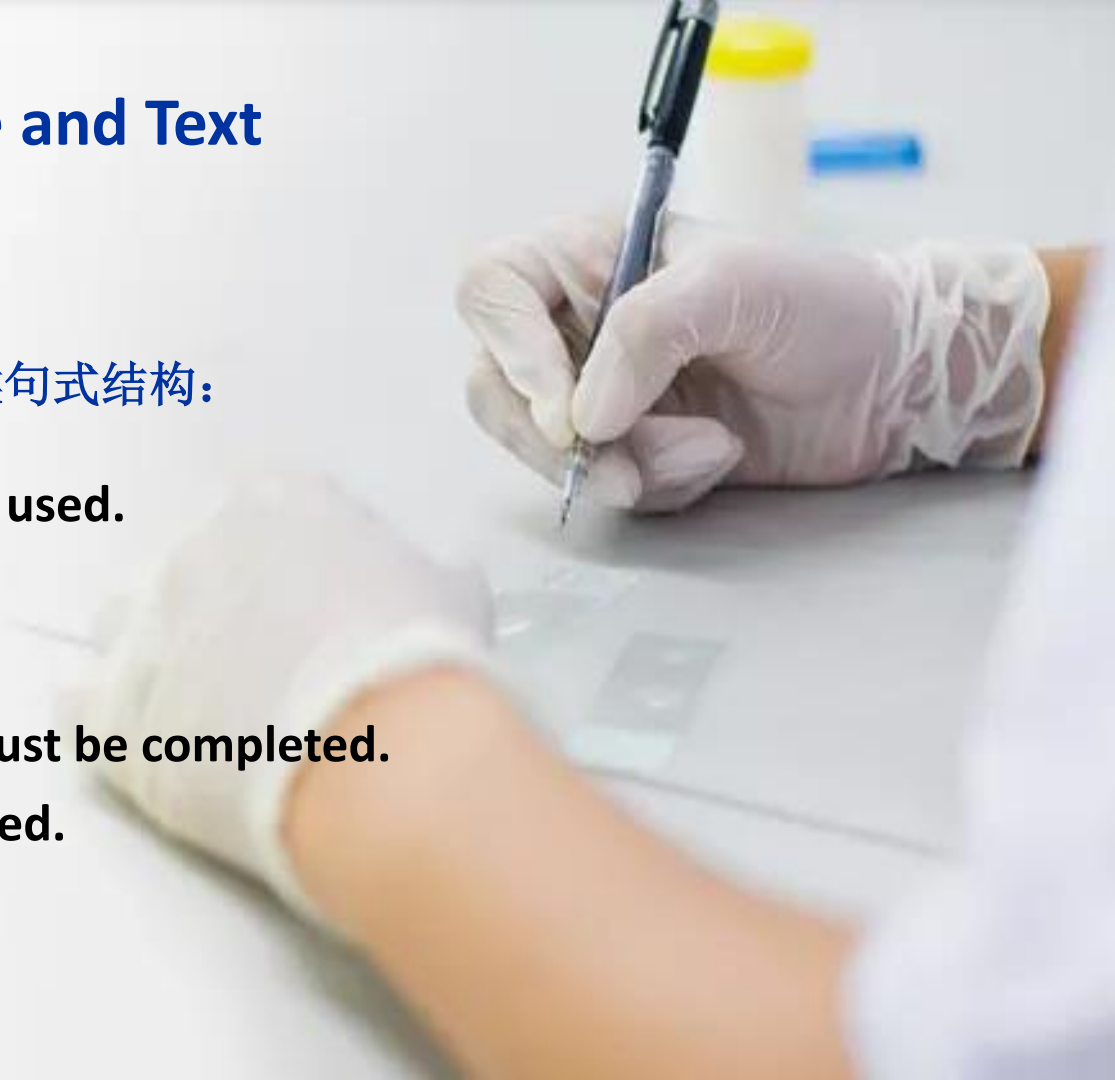
避免使用 **it is, there are, this is** 这类句式结构:

✗ **It is a procedure that is often used.**

✓ **This procedure is often used.**

✗ **There are seven steps that must be completed.**

✓ **Seven steps must be completed.**



语言文字表述 Language and Text

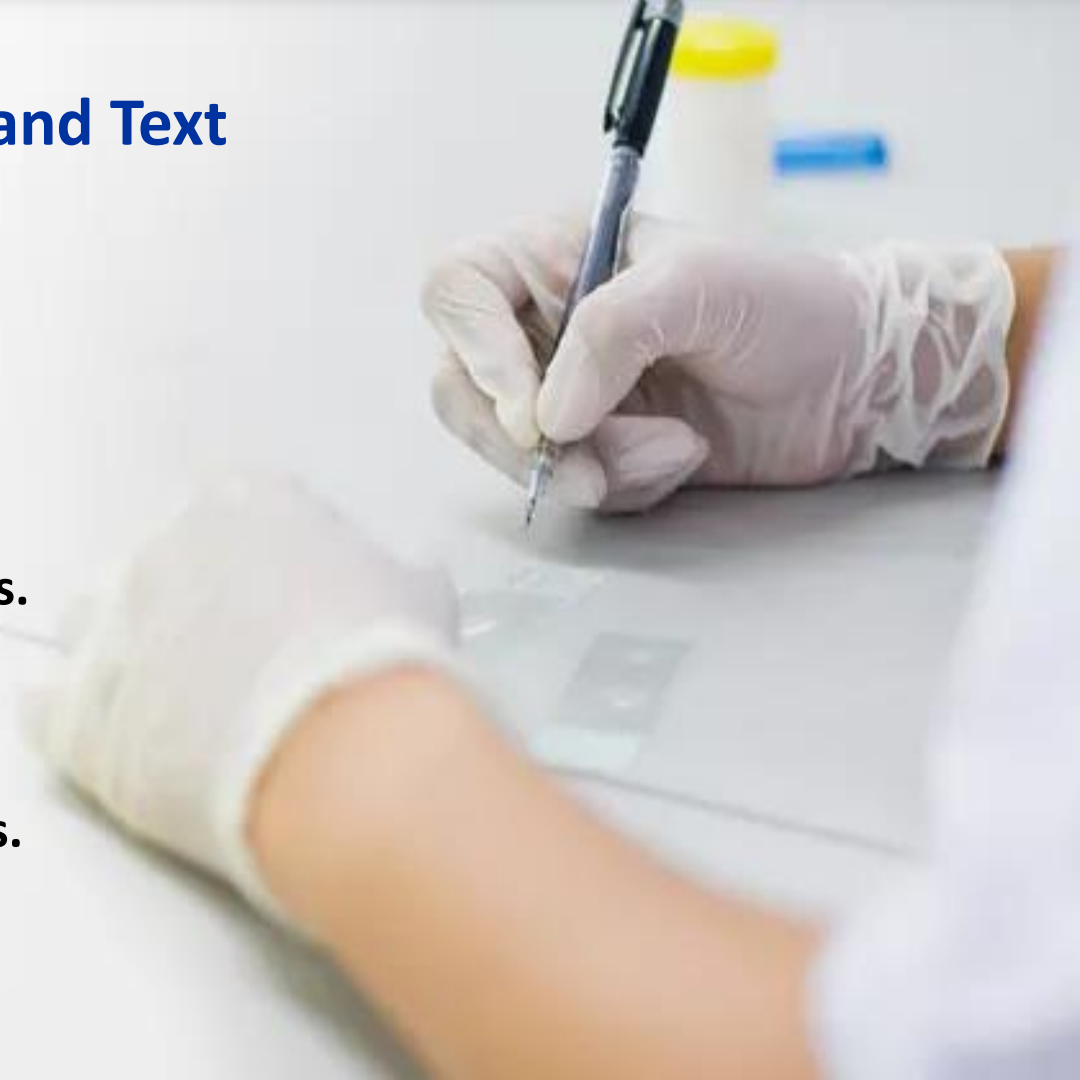
常见的易混淆的单词和短语

Comprise V.S. Compose

✗ A book is comprised of chapters.

✓ A book comprises chapters.

✓ A book is composed of chapters.



语言文字表述 Language and Text

使用性别中立语言

~~Policeman~~ Police officer

~~Chairman~~ Chair

~~Man-made~~ synthetic, artificial, etc.

~~Stewardess~~ Flight attendant

~~The corresponding author should place an asterisk after his name.~~

The name of the corresponding author should be followed by an asterisk.



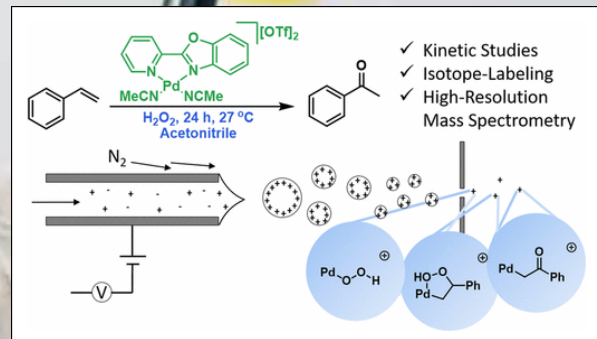
语言文字表述 Language and Text

Mechanism of Catalytic Oxidation of Styrenes with Hydrogen Peroxide in the Presence of Cationic Palladium(II) Complexes

ABSTRACT :

Kinetic studies, **isotope labeling**, and **in situ high-resolution mass spectrometry** are used to **elucidate the mechanism for the catalytic oxidation** of **styrenes** using aqueous **hydrogen peroxide (H_2O_2)** and the cationic palladium(II) compound, **$[(PBO)Pd(NCMe)_2][OTf]_2$** (**PBO = 2-(pyridin-2-yl)benzoxazole**).

Previous studies have shown that this reaction yields **acetophenones** with high selectivity. We find that **H_2O_2** binds to **Pd(II)** followed by **styrene** binding to generate a **Pd-alkylperoxide** that liberates acetophenone by at least two competitive processes, one of which involves a **palladium enolate intermediate** that has not been previously observed in olefin oxidation reactions. We suggest that **acetophenone** is formed from the **palladium enolate** intermediate by protonation from **H_2O_2** . We replaced hydrogen peroxide with **t-butyl hydroperoxide** and found that, although the **palladium enolate** intermediate was observed, it was not on the major product-generating pathway, indicating that the form of the oxidant plays a key role in the reaction mechanism.



专业词汇

化合物命名

分子式

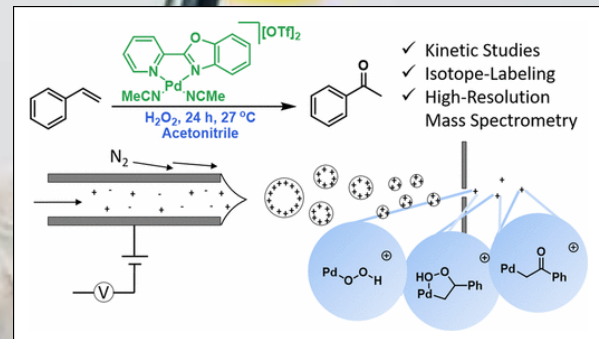
语言文字表述 Language and Text

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时态的表达

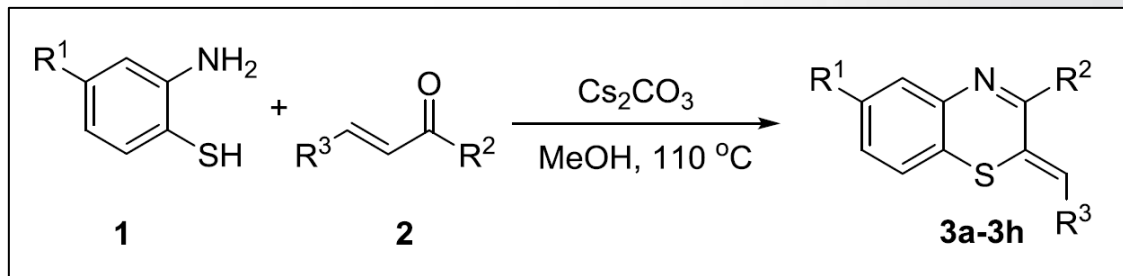
现在时

过去时

现在完成时

语言文字表述 Language and Text

Supporting Information 写作案例



General procedures for the reaction of otho-aminobenzenethiols with α,β-unsaturated ketones:

A mixture of otho-aminobenzenethiols **1** 0.375 mmol, α,β-unsaturated ketones **2** 0.250 mmol and Cs₂CO₃ 0.125 mmol in MeOH (1.0 mL) **was stirred** at 110 °C under air for 10 h. Upon completion, the reaction mixture **was diluted** with EtOAc (4.0 mL), **filtered** through a bed of silica gel layered over Celite. The volatiles **were removed** in vacuo to afford the crude product. Further column chromatography on silica gel (EtOAc/petroleum ether) **was needed** to afford the pure desired products **3a-3h**.

时态的表达

现在时

过去时

现在完成时



Cover Letter 投稿信

致 ACS 期刊编辑

Dear Professor XXX XXX

标题，投稿哪本期刊

We wish to submit our manuscript “TITLE” for publication in “ACS XXXX Journal” .

研究工作的重点和亮点

We describe a new, non-natural enzyme-catalyzed reaction, aziridination of olefins via intermolecular nitrene transfer.

We discovered that a variant of cytochrome P450BM3 used in our previous studies of intermolecular sulfimidation also catalyzes aziridination.

We were able to improve this activity more than **50-fold** and the enantioselectivity of enzyme-catalyzed aziridination was improved to **99% ee** for a range of styrenyl substrates. (具有亮点的键数据)

Cover Letter 投稿信

为什么自己的研究工作适合该期刊？

This work should be of interest to the broad audience that ACS XXXXX Journal wishes to reach. It touches on evolution ---- how new enzyme Activities can appear and be improved through evolution ---- as well as Inorganic catalysis, biocatalysis, and chemical synthesis.

稿件作者是谁？谁是通讯作者？

**Name of the Corresponding Author
postal and e-mail addresses, telephone and fax numbers**

拒稿重投，或转投其它期刊的时候，附上审稿意见。

**A point-by-point response to reviewer comments
(for resubmissions and transfers after peer review)**



ACS Publications

Most Trusted. Most Cited. Most Read.



ACS Publications

ACS 审稿政策和同行评议

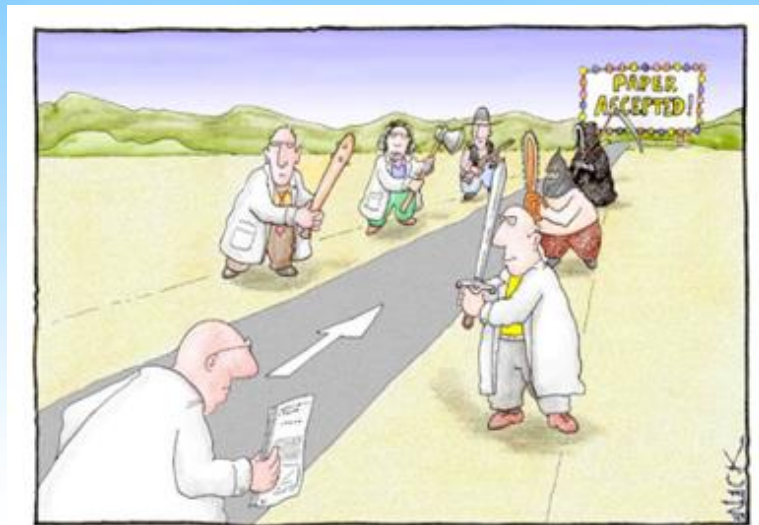


Editorial Review (Pre-Screening) 初审

- Scope 符合范围
- Scientific merit 科学价值
- Significance 意义和重要性

External Review 外审

- Appropriate Scope 符合范围
- Novelty/Urgency 新颖原创
- Technical Validity 技术要求
- High Quality 稿件质量



Most scientists regarded the new streamlined peer-review process as 'quite an improvement.'

回复评审意见

1. 仔细阅读审稿专家的评语和修改要求
2. 如何回复？（及时，注意时间期限，你的改动是什么）
3. 如果有不同意见，请用科学的语言进行回复
4. 特殊情况：申诉

编辑收到审稿人的意见后：

仔细阅读稿件

分析评审报告

给作者做出一个最终的决定

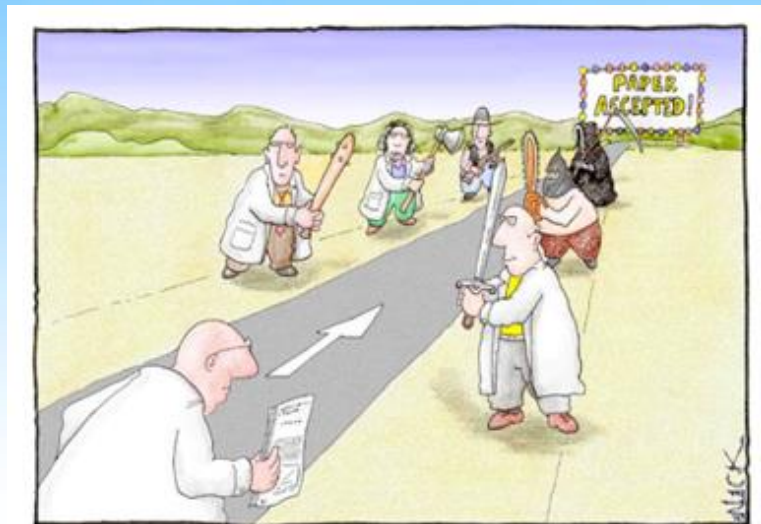
编辑做出的决定：

Accept 接收

Revise 小修，大修

Transfer 稿件转交服务

Reject 拒稿，但也不用灰心



Most scientists regarded the new streamlined peer-review process as 'quite an improvement.'



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参加 ACS 讲座的小伙伴们
有奖竞答的环节来了



本期有奖答题（共 3 题）



题目 1 : ACS 出版的第一本期刊叫什么? (单选)

- A. ACS Catalysis
- B. Chemical Reviews
- C. Journal of the American Chemical Society
- D. Journal of Agricultural and Food Chemistry

答案：C 美国化学会志

A. ACS Catalysis

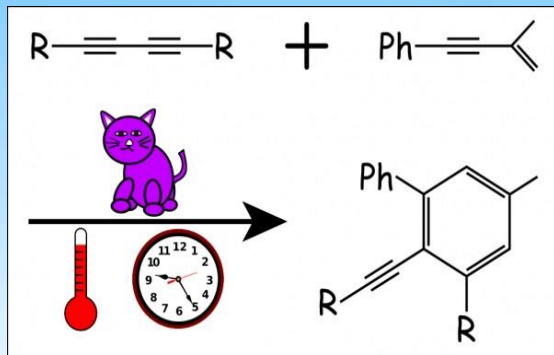
B. Chemical Reviews

C. Journal of the American Chemical Society

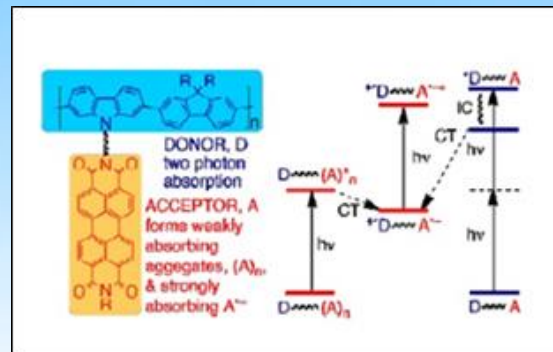
D. Journal of Agricultural and Food Chemistry

题目 2：下列哪些图片是不合格的？（多选）

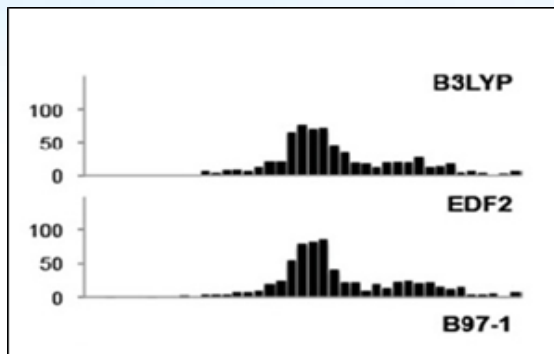
A



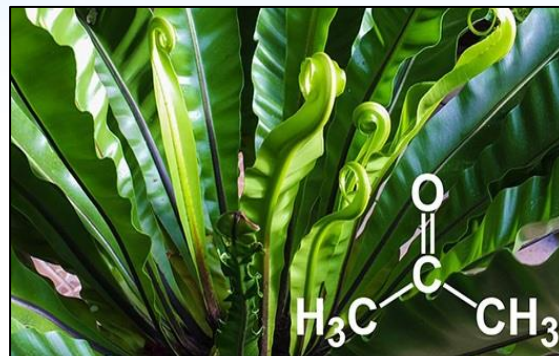
B



C

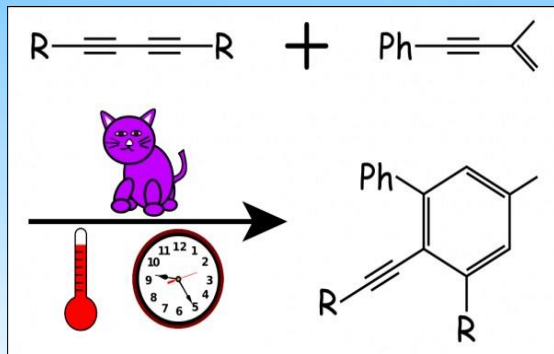


D

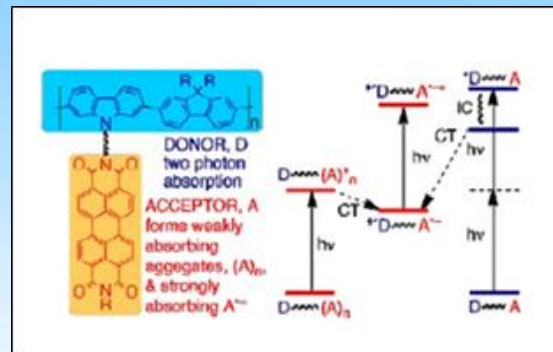


答案：ACD

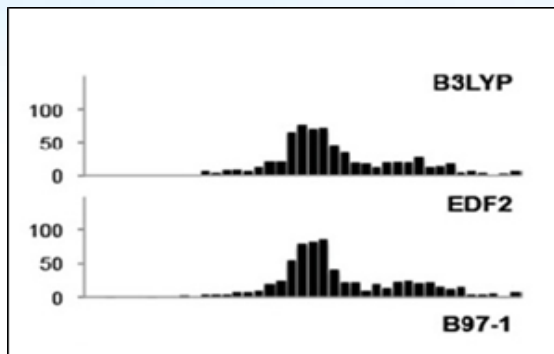
A



B



C



D



题目 3：下列哪些语句不适用于科技论文？（多选）

- A. There are seven steps that must be completed.
- B. in the lab
- C. Seven steps must be completed.
- D. man made

答案：A B D

A. ~~There are~~ seven steps ~~that~~ must be completed.

B. in the laboratory

C. Seven steps must be completed.

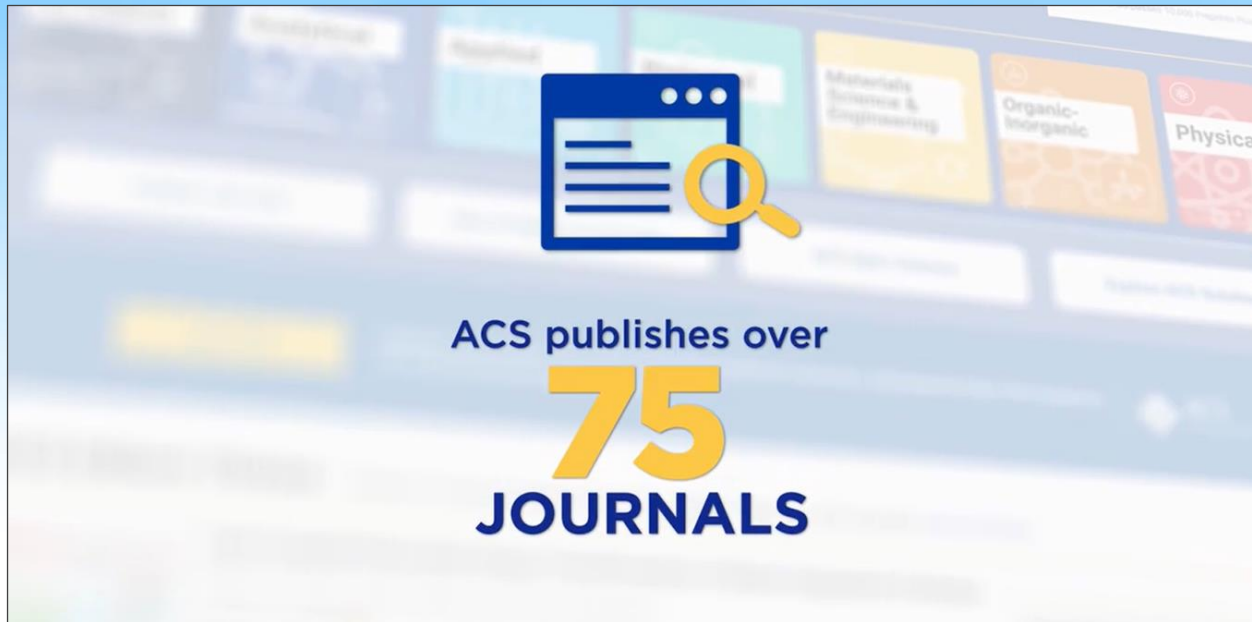
D. ~~man-made~~ synthetic

附加题： **ACS**数据库的所有期刊总数是多少呢？

- A. 55种
- B. 65种
- C. 75种
- D. 85种

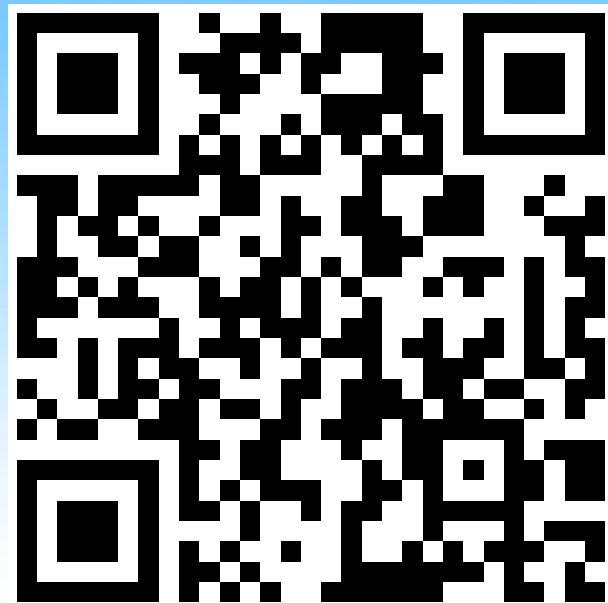


附加题： **ACS**数据库的所有期刊总数是多少呢？





Questions ?



讲座问卷答题
微信扫一扫