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美国化学会期刊投稿与写作

ACS 助力科研发表

主讲人：赵璟　ACS数据库培训师

Monday, October 30, 2023　广东石油化工学院

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15万名会员
- 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

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我们的愿景

通过化学的变革力量改善人们的生活

我们的使命

推动更广泛的化学企业及其从业者为全球及其人民的生活从中获益

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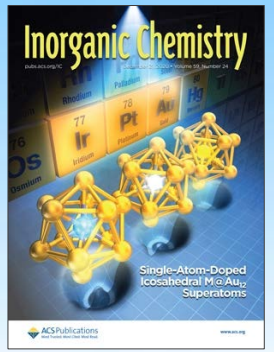

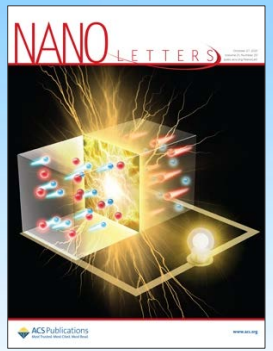

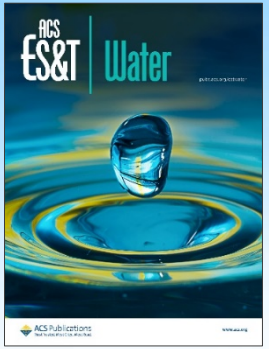

ACS 美国化学会出版超过 75 种高品质的科学期刊，共 130 多万篇期刊文章，总被引次数超过 440 万，是化学领域里被引用次数最多的期刊。

---- JCR 期刊引证报告

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WE COVER EVERY ASPECT OF CHEMISTRY

普通化学	高分子科学	食品科学与技术	生物化学
晶体学	材料科学	农学与林学	生物技术
无机化学	纳米科学	理论化学	临床化学
有机化学	化学工程	计算化学	药物化学
物理化学	能源与燃料	化学信息学	药理学和药剂学
分析化学	环境科学	分子生物学	毒理学

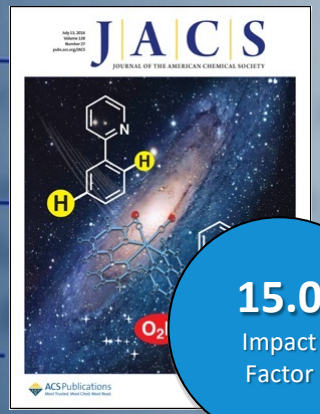
1870

1875

1879

1880

1885



15.0
Impact
Factor

1905

JOURNAL

OF THE

AMERICAN CHEMICAL SOCIETY.

VOLUME I.

PUBLICATION COMMITTEE:

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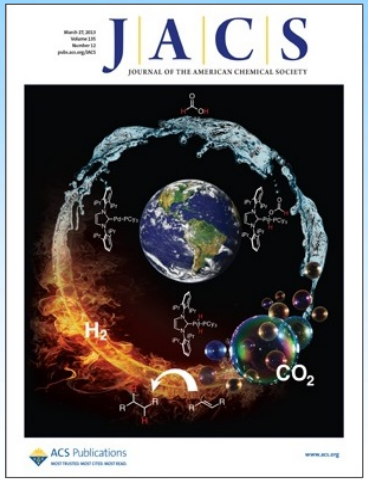
Journal of the American Chemical Society 美国化学会志

Impact Factor: 15.0 | Citations: 580,144



2022 IMPACT FACTOR

15.0

美国化学会志 **JACS** 出版于 1879 年，是美国化学会的第一本期刊，也是美国化学会出版社的旗舰期刊。

化学领域获得引用最多，影响力最大的综合类化学期刊，出版化学各个领域里顶尖的基础研究论文。

每年出版大约 2500 篇研究型、通讯和观点型的科研文章。期刊每周出版一期，提供了化学领域必不可少的研究结果，受到全球化学科研工作者的广泛关注。

Chemical Reviews 化学评论

Impact Factor: 62.1 | Citations: 231,674

2022 IMPACT FACTOR

62.1

Chemical Reviews 是最受推崇同时也是排名最高的期刊之一，涵盖了化学学科所有的研究领域，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。

除了综述文章以外，期刊定期出版权威专题，重点关注新兴研究领域的单一主题或方向。

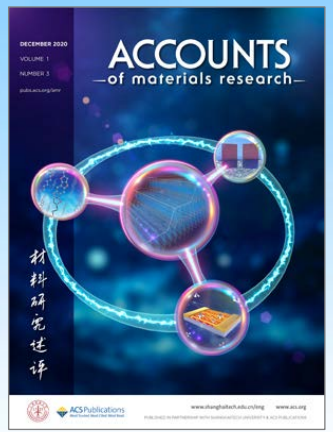
期刊收录研究方向：化学，化学综合

材料研究述评/化学研究述评

Accounts of Materials Research

主要发表在某一材料科学分支内相关基础、应用或工程研究领域内的具有作者团队自己研究特色的述评文章，或者前瞻性观点。

期刊收录研究方向：材料科学



Accounts of Materials Research

IMPACT FACTOR

14.6

Accounts of Chemical Research

主要发表化学和生物化学领域内关于基础研究和应用的、具有作者团队自己研究特色的述评文章，或者前瞻性观点。

期刊收录研究方向：化学，化学综合

Accounts of Chemical Research

IMPACT FACTOR

18.3

Organic-Inorganic Chemistry 有机与无机化学

The Journal of Organic Chemistry

有机化学领域的旗舰型期刊。

3.6 Impact Factor

Organic Letters

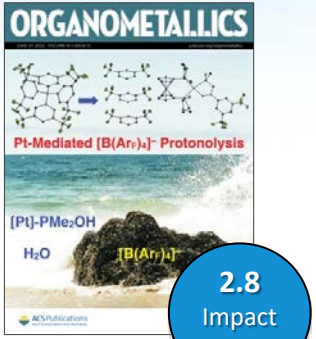
有机化学快报期刊，也是有机化学领域被引用次数最多的期刊。

5.2 Impact Factor

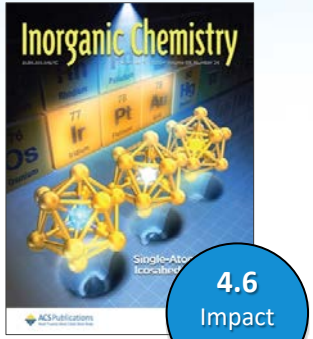
3.4 Impact Factor

Inorganic Chemistry

无机化学领域被引用次数最多的期刊。



2.8 Impact Factor



4.6 Impact Factor

Crystal Growth & Design

晶体学领域被引用次数最多的期刊。

3.8 Impact Factor

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Physical Chemistry 物理化学

- **The Journal of Physical Chemistry A**
- **The Journal of Physical Chemistry B**
- **The Journal of Physical Chemistry C**

JPC A：分子、离子、自由基、团簇和气溶胶物理化学的实验、理论和计算研究。

JPC B：生物物理、生物化学、生物材料和软物质领域的实验、理论和计算研究。

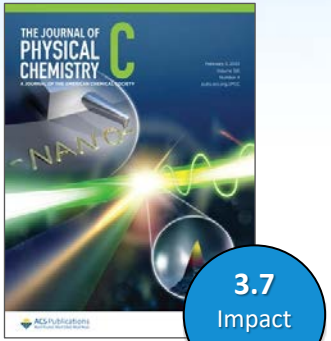
JPC C：纳米、低维和块状材料物理化学的实验、理论和计算研究;界面的化学转变;以及能量转换和储存。

- **The Journal of Physical Chemistry Letters**

JPCL：物理化学领域的快报类期刊。

2.9 Impact Factor

3.3 Impact Factor



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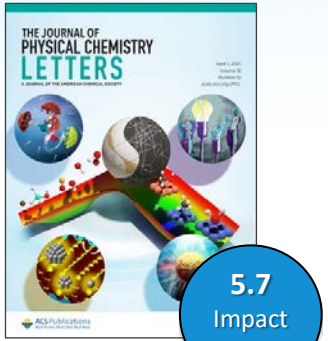
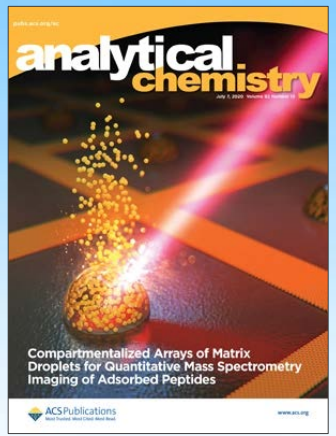


5.7 Impact Factor

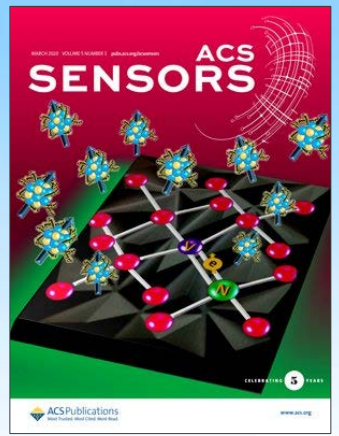
Measurement Science 测量科学



Analytical Chemistry

IMPACT FACTOR

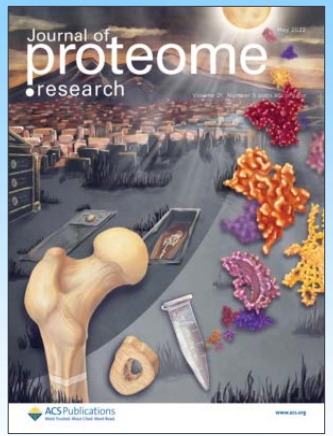
7.4



ACS Sensors

IMPACT FACTOR

8.9



Journal of Proteome Research

IMPACT FACTOR

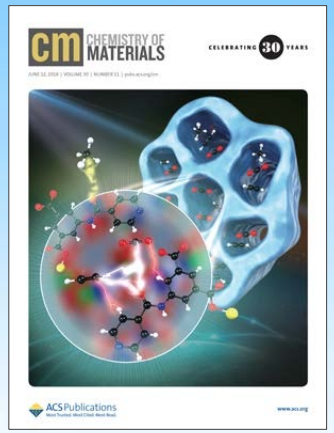
4.4

Journal of the American Society for Mass Spectrometry

IMPACT FACTOR

3.2

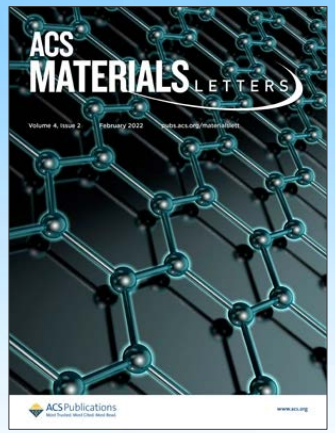
Materials Science & Engineering 材料科学与工程



Chemistry of Materials

IMPACT FACTOR

8.6



ACS Materials Letters

IMPACT FACTOR

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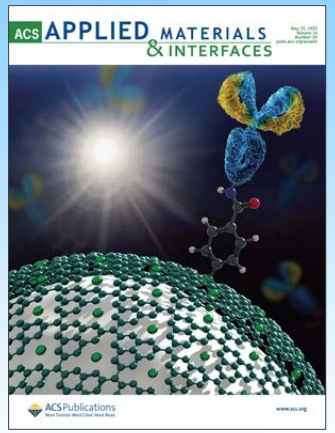
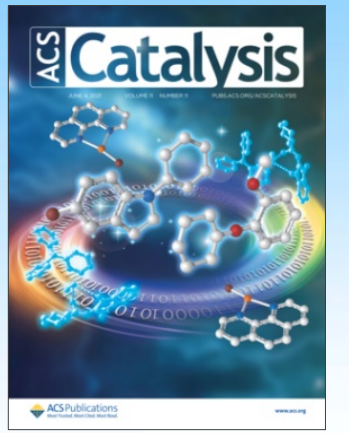


ACS Applied Materials & Interfaces

IMPACT FACTOR

9.5

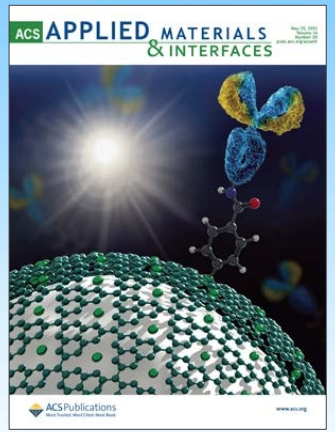


ACS Catalysis

IMPACT FACTOR

12.9

Applied Materials Science & Engineering 应用材料系列期刊

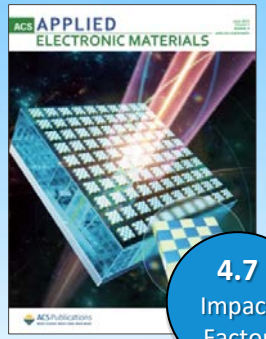


ACS Applied Materials & Interfaces

IMPACT FACTOR

9.5

4.7 Impact Factor



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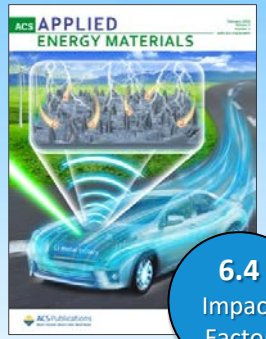
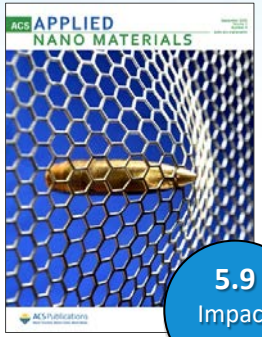


6.4 Impact Factor

- Impact Factor



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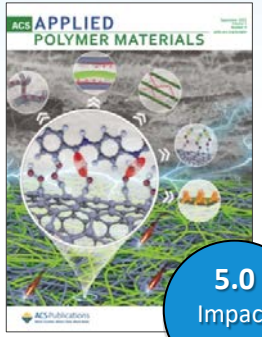

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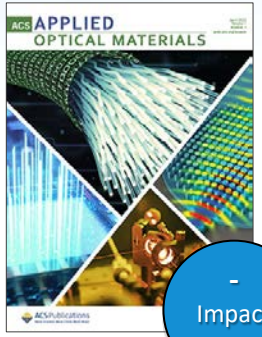
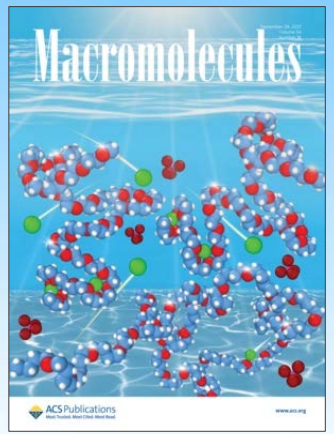


- Impact Factor

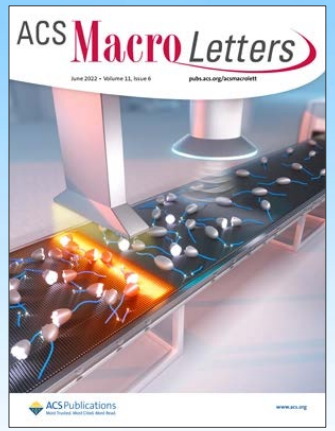
Polymer Science 高分子科学



Macromolecules

IMPACT FACTOR

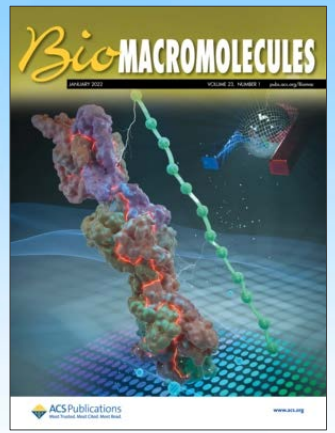
5.5



ACS Macro Letters

IMPACT FACTOR

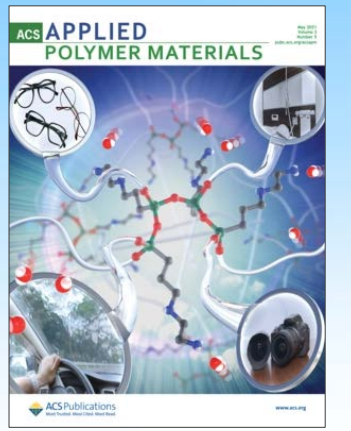
5.8



Biomacromolecules

IMPACT FACTOR

6.2



ACS Applied Polymer Materials

IMPACT FACTOR

5.0

Nanoscience and Nanotechnology 纳米科学与技术

ACS NANO

出版了关于纳米结构 (纳米材料和组件、纳米器件和自组装结构) 的合成、组装、表征、理论和模拟、纳米生物技术、纳米制造、纳米科学和纳米技术的方法和工具以及自组装和定向组装的综合文章。

NANO LETTERS

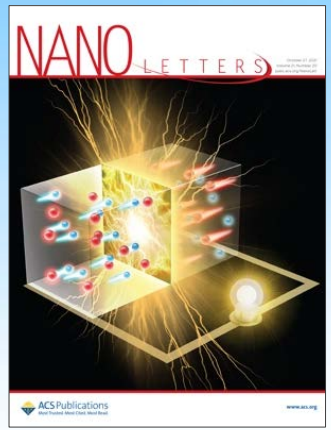
快速报告在纳米科学和技术所有领域的基础、应用和新兴研究成果的期刊。

符合其范围的主要标准之一是至少融合两个不同领域或学科。

ACS Nano

IMPACT FACTOR

17.1



Nano Letters

IMPACT FACTOR

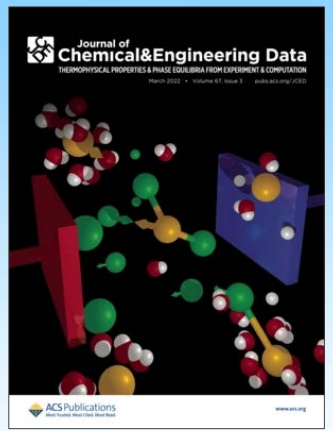
10.8

Energy and Transportation 化工与能源

Industrial & Engineering Chemistry Research

IMPACT FACTOR

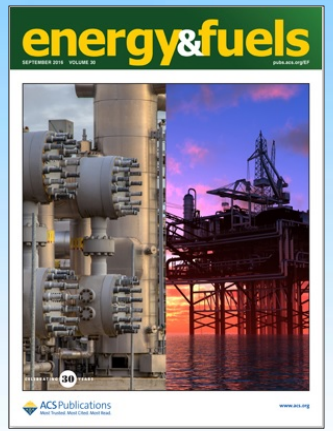
4.2



Journal of Chemical & Engineering Data

IMPACT FACTOR

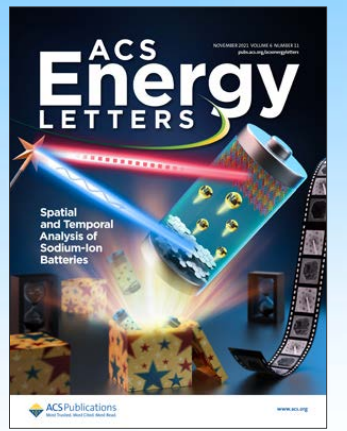
2.6



Energy & Fuels

IMPACT FACTOR

5.3



ACS Energy Letters

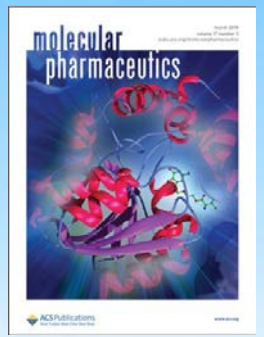
IMPACT FACTOR

22.0

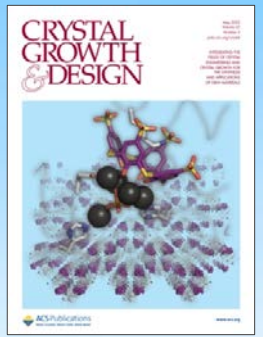
Pharmaceuticals 药物化学

药物化学领域的顶级期刊

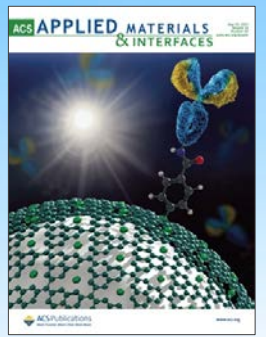
药物化学快报



分子药剂学



药物制剂

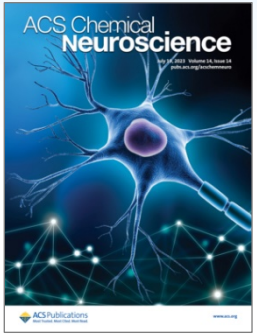


界面现象&应用

天然产物研究

毒理学

药学与转化科学

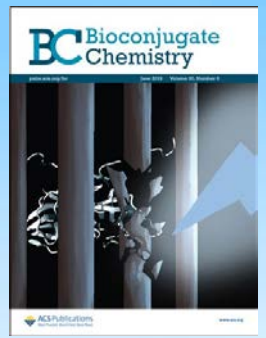


化学神经科学

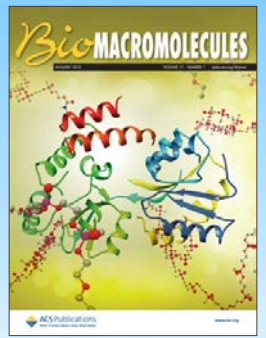
传染病研究

Biotechnology 生物技术

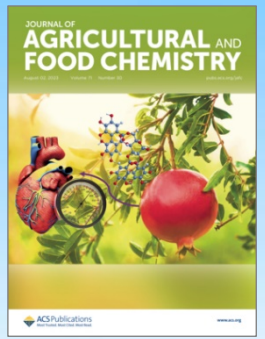
生物化学



生物共轭化学

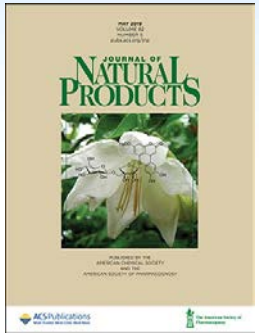


生物大分子



农业&食品科学

生物材料

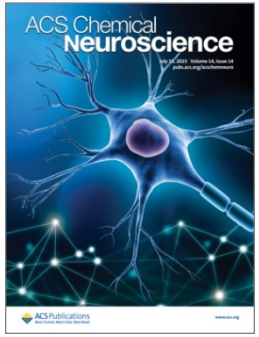


天然产物研究

蛋白组学

合成生物学

化学生物学



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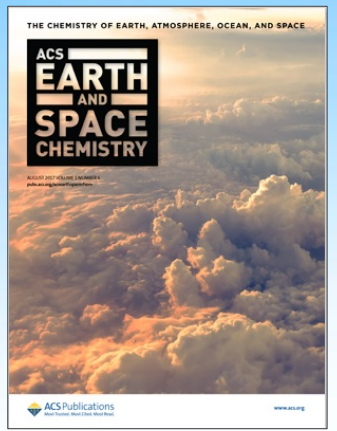

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Education, Healthcare & Safety 化学教育, 健康与安全

Journal of Chemical Education

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作为化学教育领域和机构的期刊资源，内容通常涉及了化学课程内容，化学实验设计，教学方法和化学教育学。

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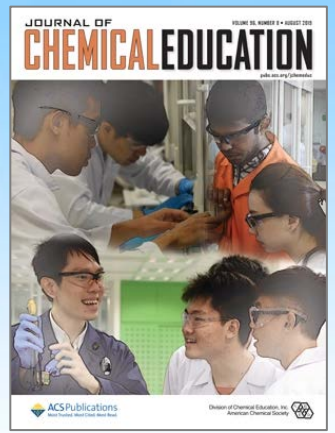

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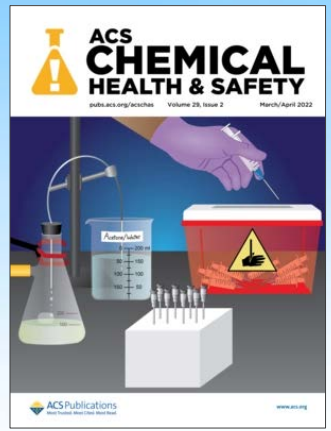

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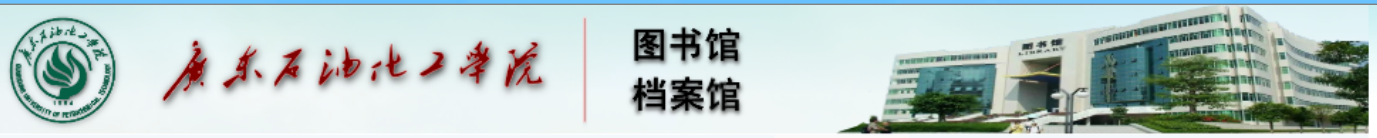

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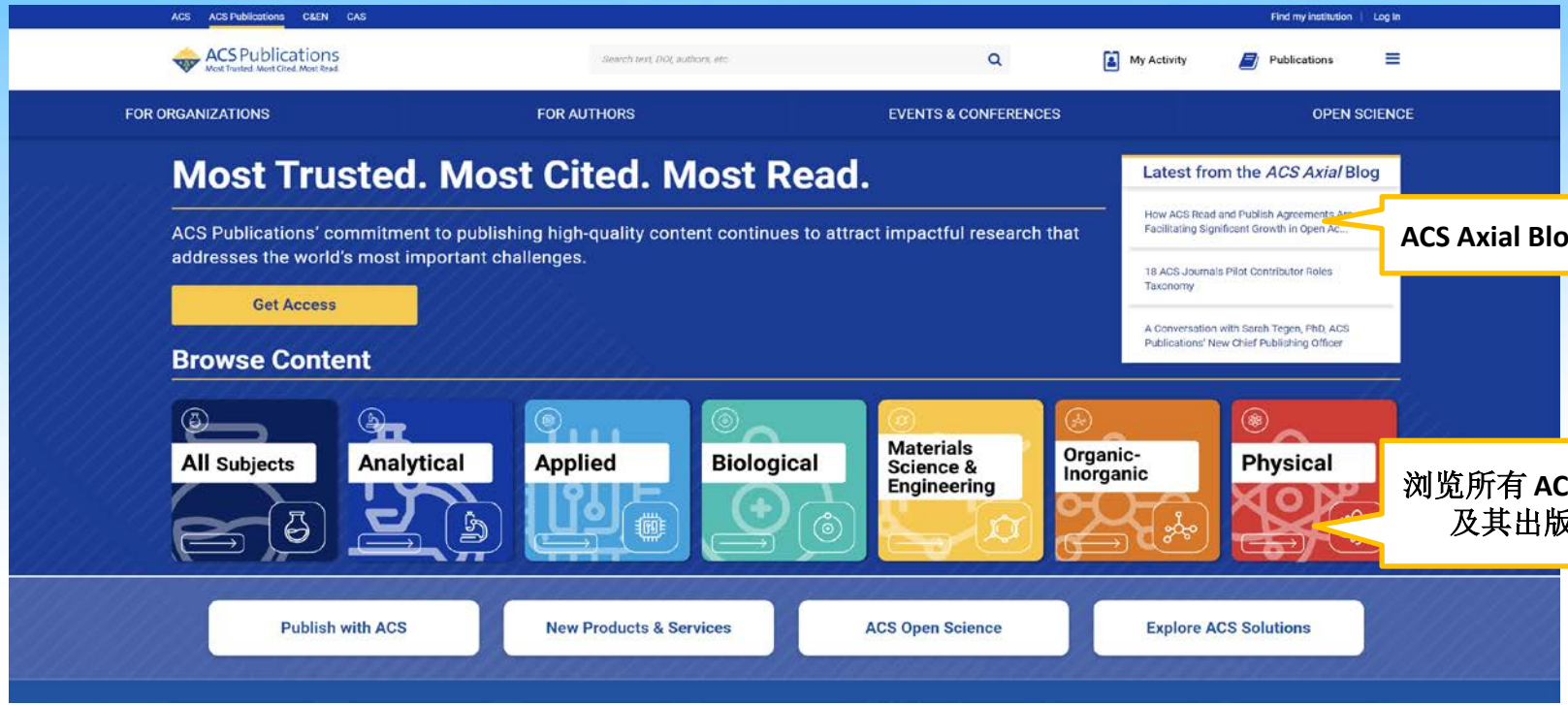

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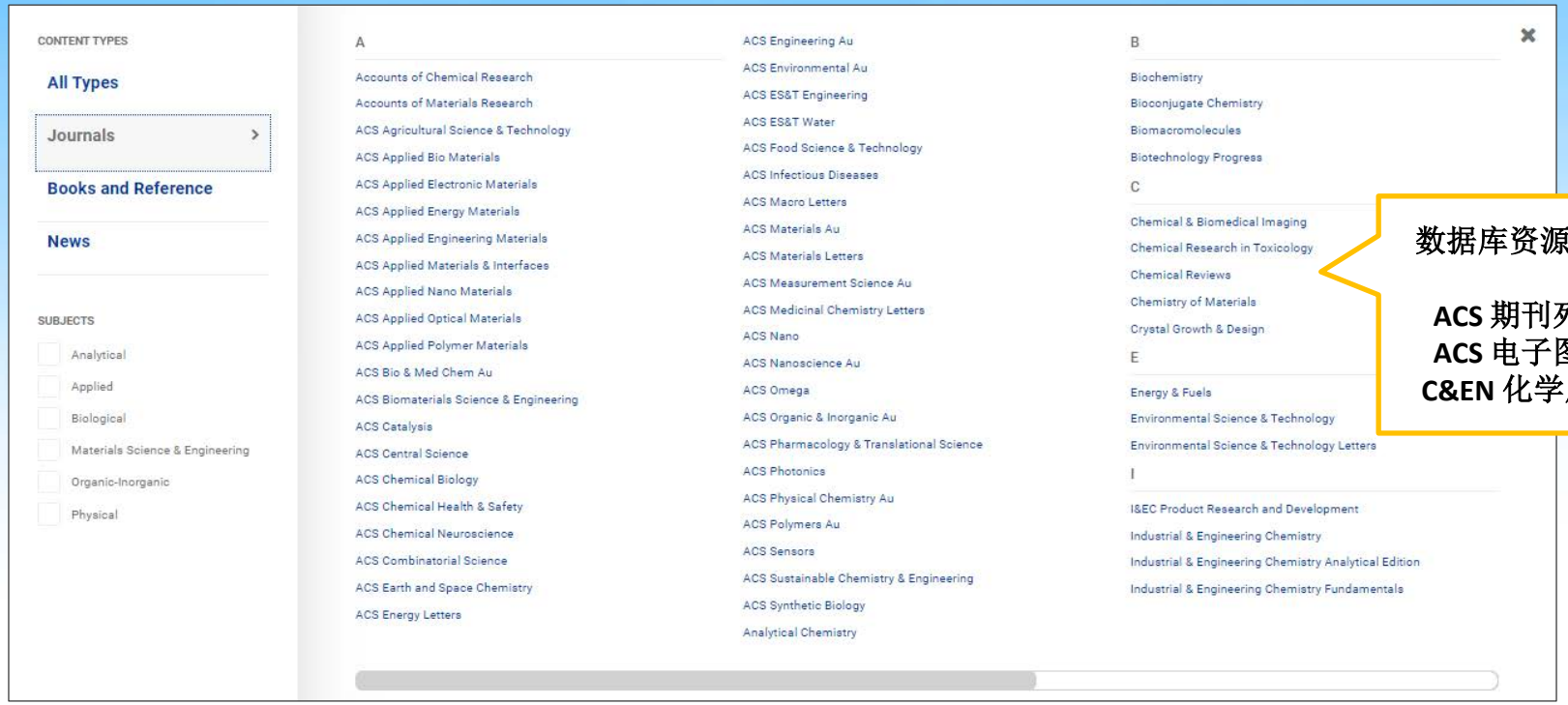

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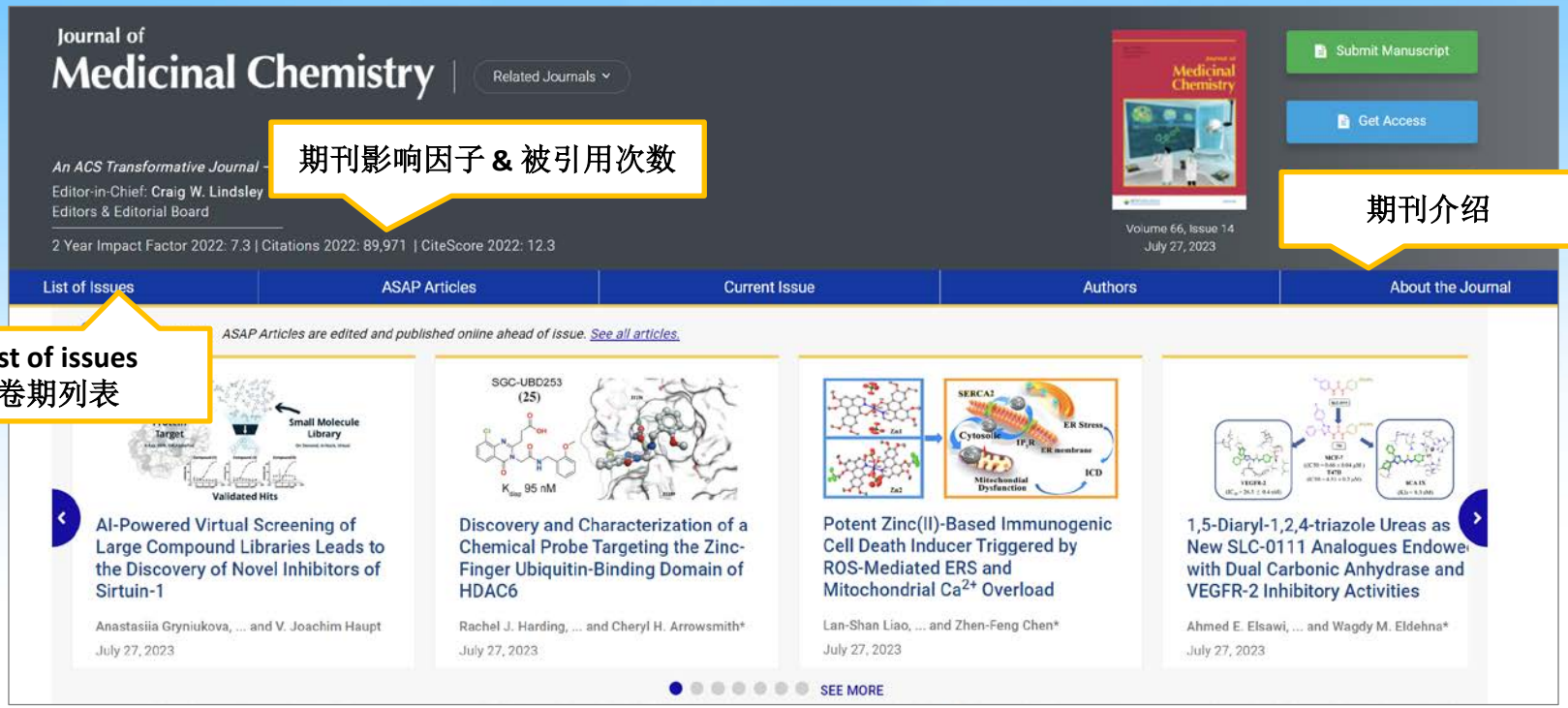

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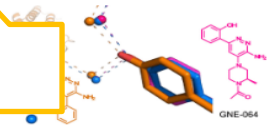

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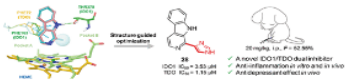

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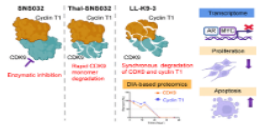

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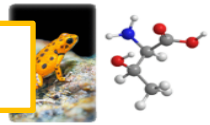

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Matthew J. LaMarche*

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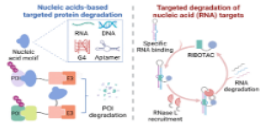

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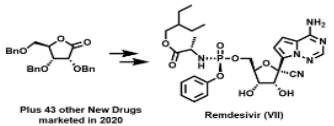

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Andrew C. Flick, ... and Christopher J. O'Donnell*

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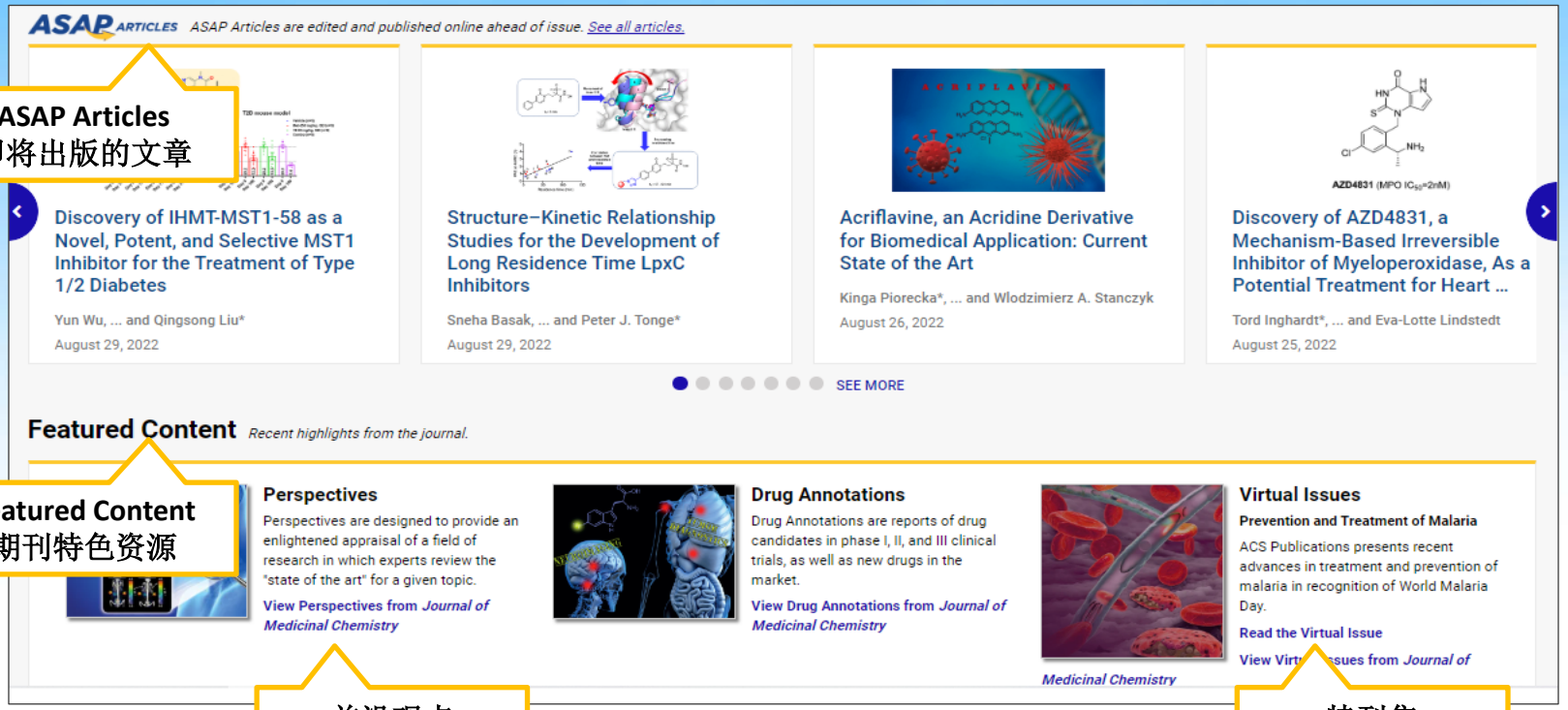

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布尔逻辑算符	举例	意义和作用
AND	A AND B AND C 等同于 A B C	同时包含字段 A B C 的数据 用于查准，缩小范围，空格默认为 “AND”
OR	A OR B OR C 至少含有其中一个字段	至少包含 A B C 其中一个字段的数据 用于查全，检索同义词
NOT	A B NOT C 排除某个特定的字段	检索同时包含字段 A 和 B，但不包含 C 用于排除，当不需要字段 C 出现
符号	**举例**	**意义和作用**
*	cata*	零个或多个字符：catalysis, catalyzed, …
?	palla?ium	只代表一个字符：palladium
“ ”	“A B”	精确检索某个特定词组 如果没有 “ ”，相当于 A AND B

Case Study 检索案例：钯催化偶联反应

NOBEL PRIZE IN CHEMISTRY 2010
颁发给三位化学家
理查德·赫克
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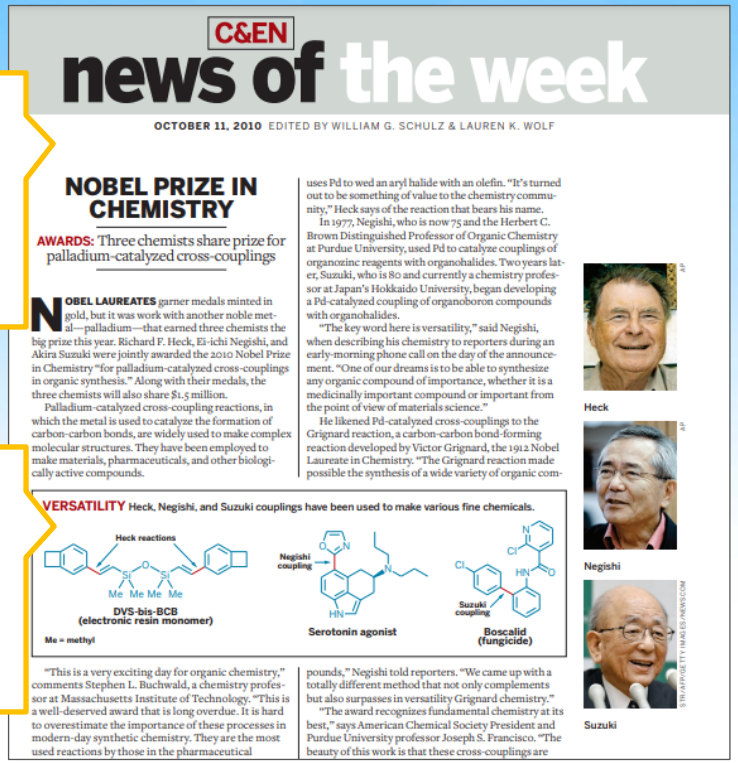
钯催化偶联反应是偶联反应的一个大类，以金属钯化合物作为催化剂，它是均相催化剂的研究和应用的活跃领域。



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 wed 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 organozinc 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 compounds," 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

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

Heck reactions

DVS-bis-BCB (electronic resin monomer)

Me = methyl

Negishi coupling

Serotonin agonist

Suzuki coupling

Boscalid (fungicide)

"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

Heck

Negishi

Suzuki

AP

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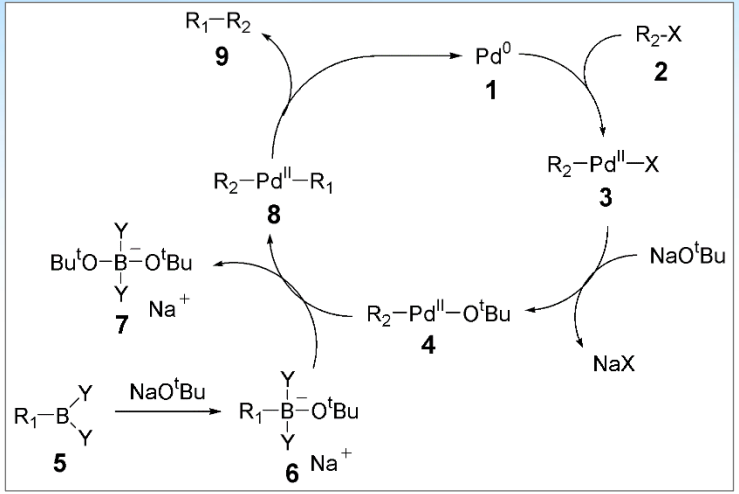
Chem. Eng. News 2010, 88, 41, 7

赫克反应 **Heck Reaction**

根岸英一反应 **Negishi Reaction**

铃木-宫浦反应 **Suzuki-Miyaura Reaction**



Suzuki Mechanism

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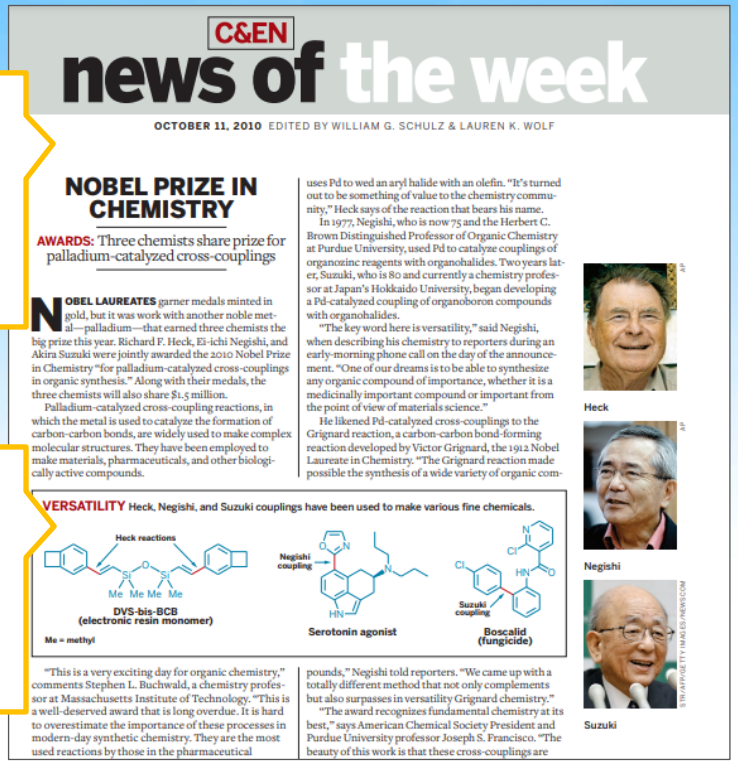

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Heck

Negishi

Suzuki

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

通常遵循以下化学计量：

X-R + M-R' → MX + R-R'

变化基于 X-R 芳基溴和 M-R'
反应产生盐或盐样产物：
卤化锌，卤化锡，卤化硅

例如：

Heck 反应：烯烃与芳卤偶联
Suzuki 反应：芳卤与烷基硼酸偶联
Stille 反应：卤代烃与有机锡偶联
Hiyama 偶联反应：卤代烃与有机硅偶联
Sonogashira 偶联反应：芳卤与炔烃偶联
Negishi 偶联反应：卤代烃与有机锌偶联
Buchwald-Hartwig 胺化反应：芳卤与胺偶联

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Search: Palladium-Catalyzed Cross-Coupling

Diarylmethanol Derivatives With Diborylmethane
作为反应底物

Article

Palladium-Catalyzed Cross-Coupling Reaction of Diarylmethanol Derivatives with Diborylmethane

Kento Asai, Masahiro Miura, and Koji Hirano*

The Journal of Organic Chemistry 2022, 87, 11, 7436-7445 **(Article)**
Publication Date (Web): May 24, 2022
DOI: 10.1021/acs.joc.2c00715

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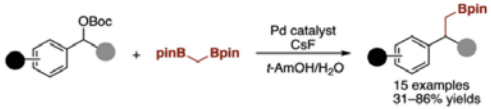

JOC The Journal of Organic Chemistry

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Palladium-Catalyzed Cross-Coupling of *N*-Sulfonylaziridines with Boronic Acids

Megan L. Duda and Forrest E. Michael*

Journal of the American Chemical Society 2013, 135, 49, 18347-18349 **(Communication)**
Publication Date (Web): November 25, 2013
DOI: 10.1021/ja410686v

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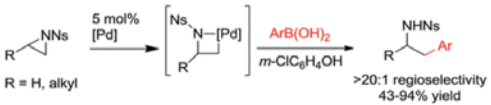

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作为反应底物

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Krista M. Wager and Matthew H. Daniels

Organic Letters 2011, 13, 15, 4052-4055 **(Letter)**
Publication Date (Web): July 5, 2011
DOI: 10.1021/ol201564j

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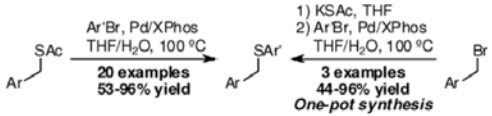

OL Organic Letters

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Search: Palladium-Catalyzed Cross-Coupling

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Norio. Miyaura and Akira. Suzuki

Chemical Reviews 1995, 95, 7, 2457-2483 **(Article)**
Publication Date (Print): November 1, 1995
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Ligand-Controlled Regioselectivity in Palladium-Catalyzed Cross Coupling Reactions

Franziska Schoenebeck* and K. N. Houk*

Journal of the American Chemical Society 2010, 132, 8, 2496-2497 **(Communication)**
Publication Date (Web): February 1, 2010
DOI: 10.1021/ja9077528

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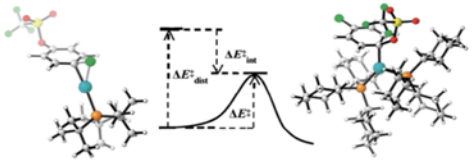

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Article

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Garrett P. R. Freure, Eric A. Skrotzki, Jean-Danick E. Lavertu, and Stephen G. Newman*

ACS Catalysis 2021, 11, 19, 12258-12263 **(Letter)**
Publication Date (Web): September 21, 2021
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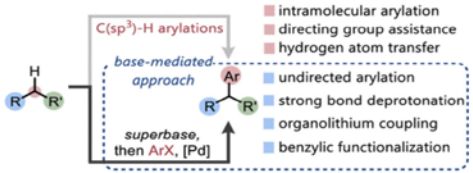
ABSTRACT



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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*

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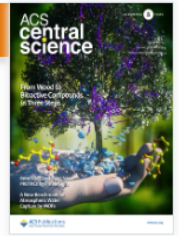

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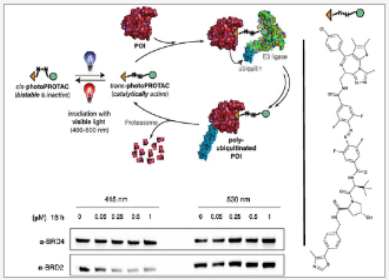
Abstract

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*-F_4-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*-F_4-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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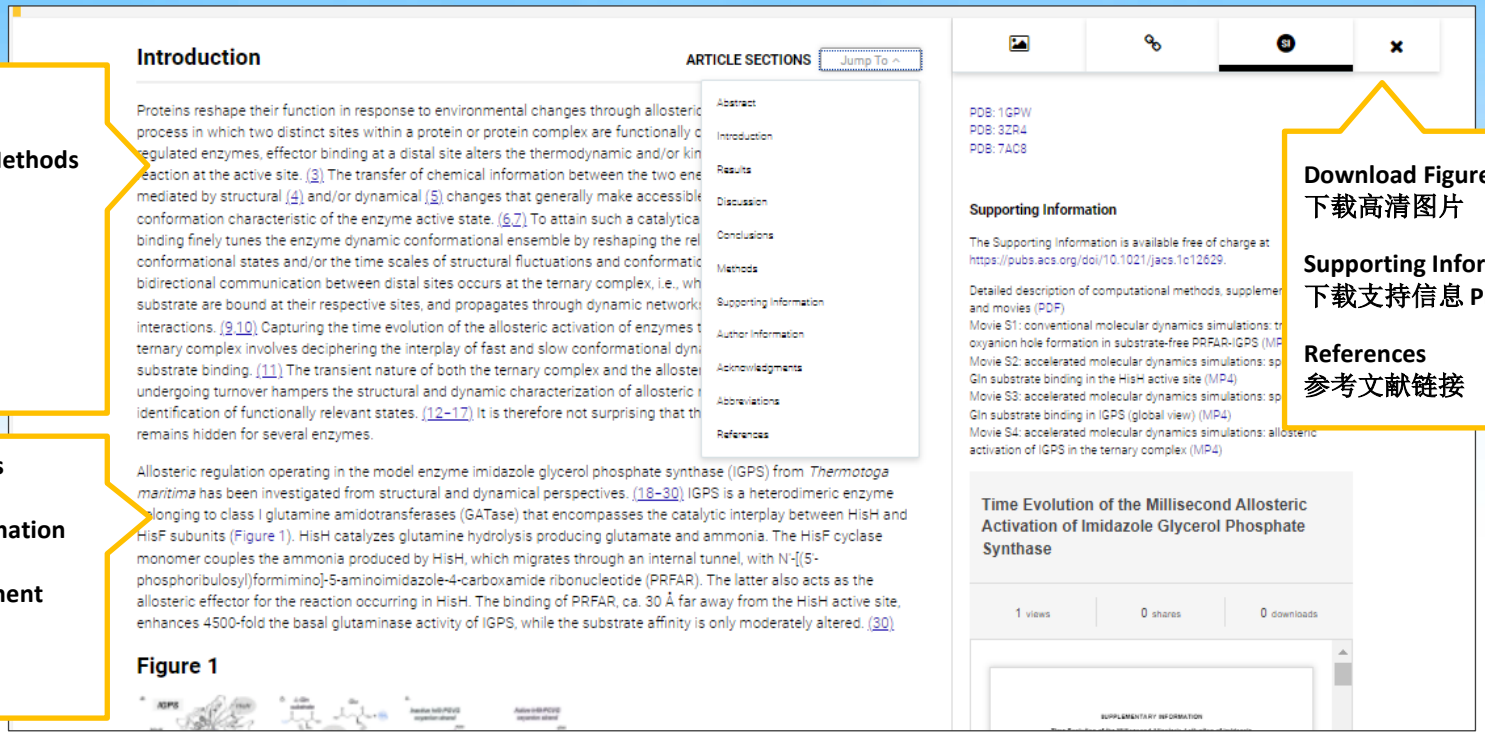

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Content
化合物，表格，实验等应以在文章中的提及顺序呈现，对应稿件中使用的编号系统。

Reversible Spatiotemporal Control of Induced Protein Degradation by Bistable PhotoPROTACs

...k Pfaff[1,†], Kusal T. G. Samarasinghe[2,†], Craig M. Crews[2,3,4] and Erick M. Carreira[1]

...nt of Chemistry and Applied Biosciences, Laboratory of Organic ...-Prelog-Weg 3, 8093 Zürich, Switzerland

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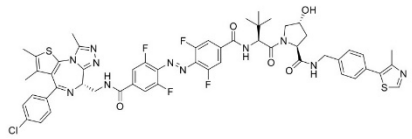
Content

活性化合物命名，编号
结构式
合成步骤

(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 **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. $NaHCO_3$ and the aq. phase was extracted three times with EtOAc. The combined org. layers were washed with brine and dried over sodium sulfate. Residual DMF and tetramethylurea were removed by lyophilization after freezing in a water/dioxane mixture. The crude product was further purified by flash column chromatography (94% EtOAc/4% iPrOH/2% H_2O) to afford **photoPROTAC-1** as an orange oil (16.0 mg, 14.0 µmol, 51%).

Rf = 0.36 (85% EtOAc/10% iPrOH/5% H_2O).

活性化合物表征分析
Rf, NMR, IR, ESI-HRMS

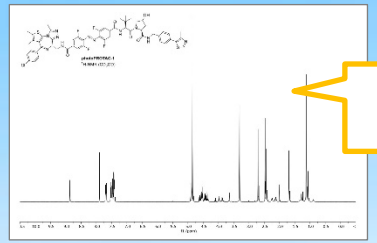
^{1}H NMR (500 MHz, CD_3OD) δ = 8.87 (s, 1H), 7.70 (dd, J = 5.1, 1.6 Hz, 2H), 7.67 (dd, J = 5.1, 1.6 Hz, 2H), 7.52 (d, J = 8.5 Hz, 2H), 7.48 (d, J = 8.5 Hz, 2H), 7.44 – 7.40 (m, 4H), 4.91 (s, 1H), 4.65 – 4.50 (m, 4H), ...3 (dd, J = 13.6, 7.0 Hz, 2H), 4.35 (d, J = 15.4 Hz, 1H), 3.98 (d, J = 11.0 Hz, 1H), 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).

^{13}C NMR (126 MHz, CD_3OD) 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.

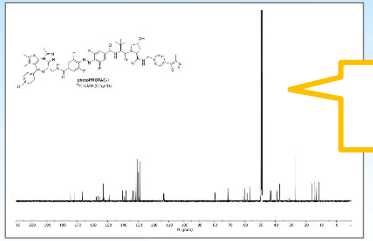
19F NMR (471 MHz, CD_3OD) δ = -121.4, -121.5.

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

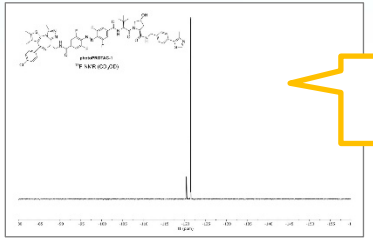
ESI-HRMS: calcd. for $C_{54}H_{51}ClF_4N_{11}O_5S_2$ $[M+H]^+$ 1108.3135, found 1108.3144.



^{1}H-NMR



^{13}C-NMR



^{19}F-NMR

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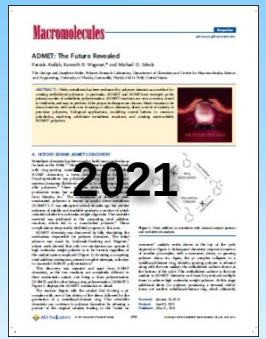

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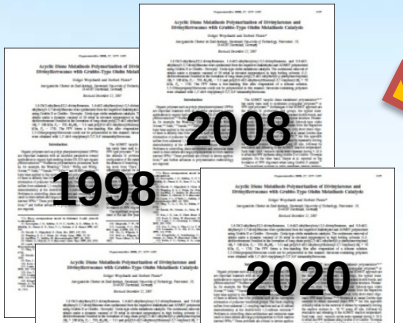

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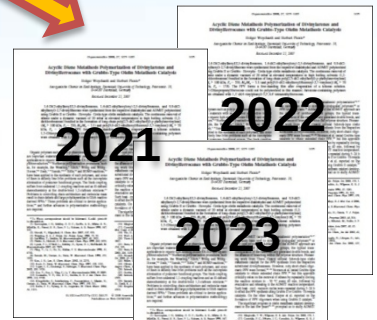

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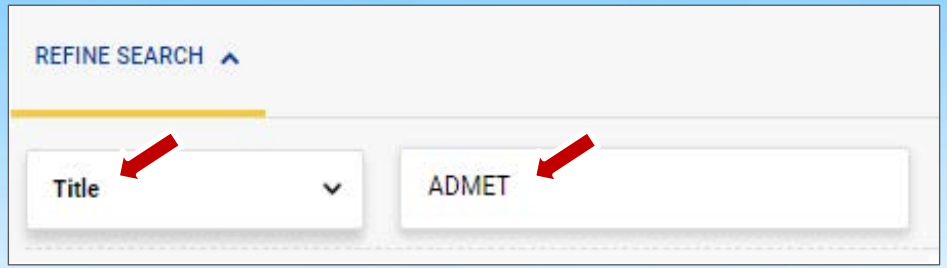

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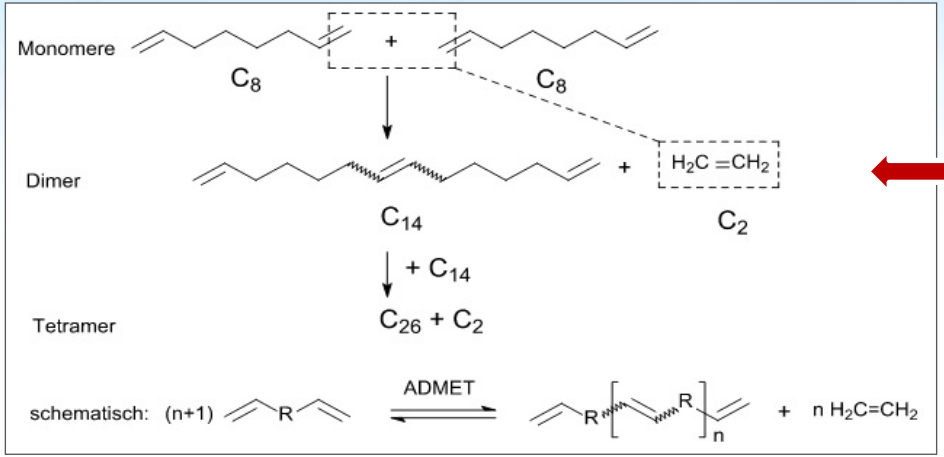

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Pascale Atallah, Kenneth B. Wagener, and Michael D. Schulz

12), pp 4735-4741
y 21, 2013 (Perspective)

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Figure 1 of 9

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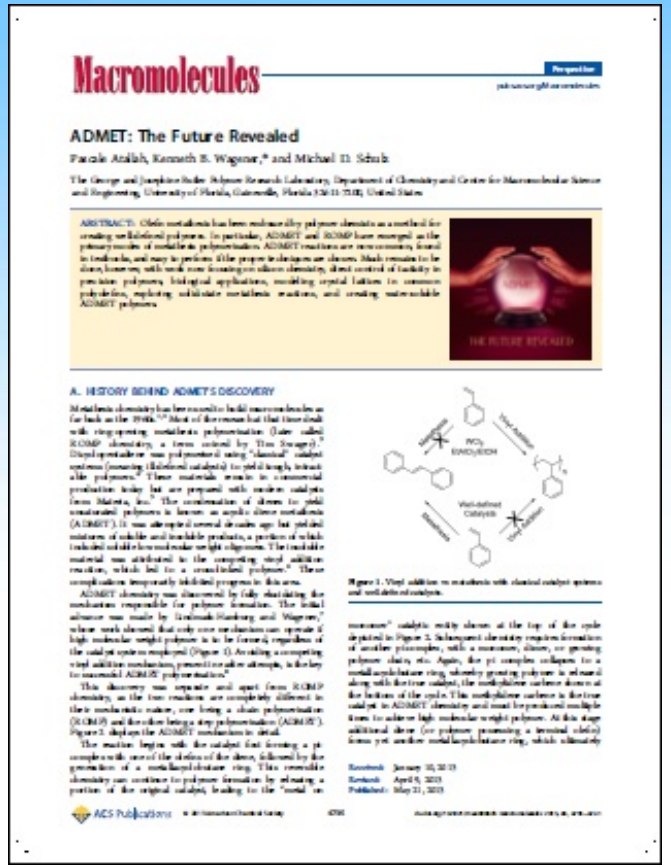

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ADMET: The Future Revealed

Pascale Atallah, Kenneth B. Wagener,* and Michael D. Schulz

A. HISTORY BEHIND ADMET'S DISCOVERY

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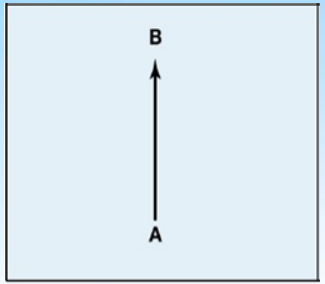

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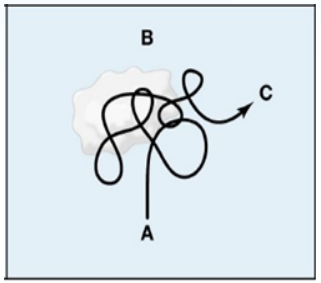

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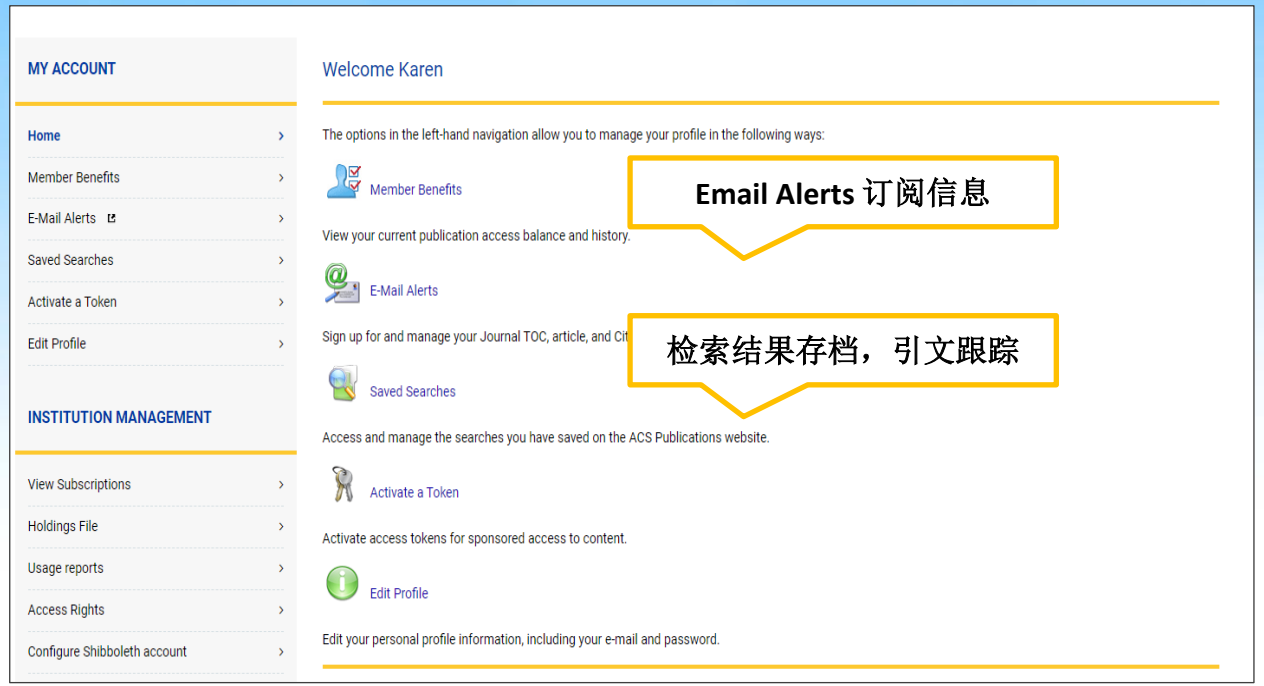

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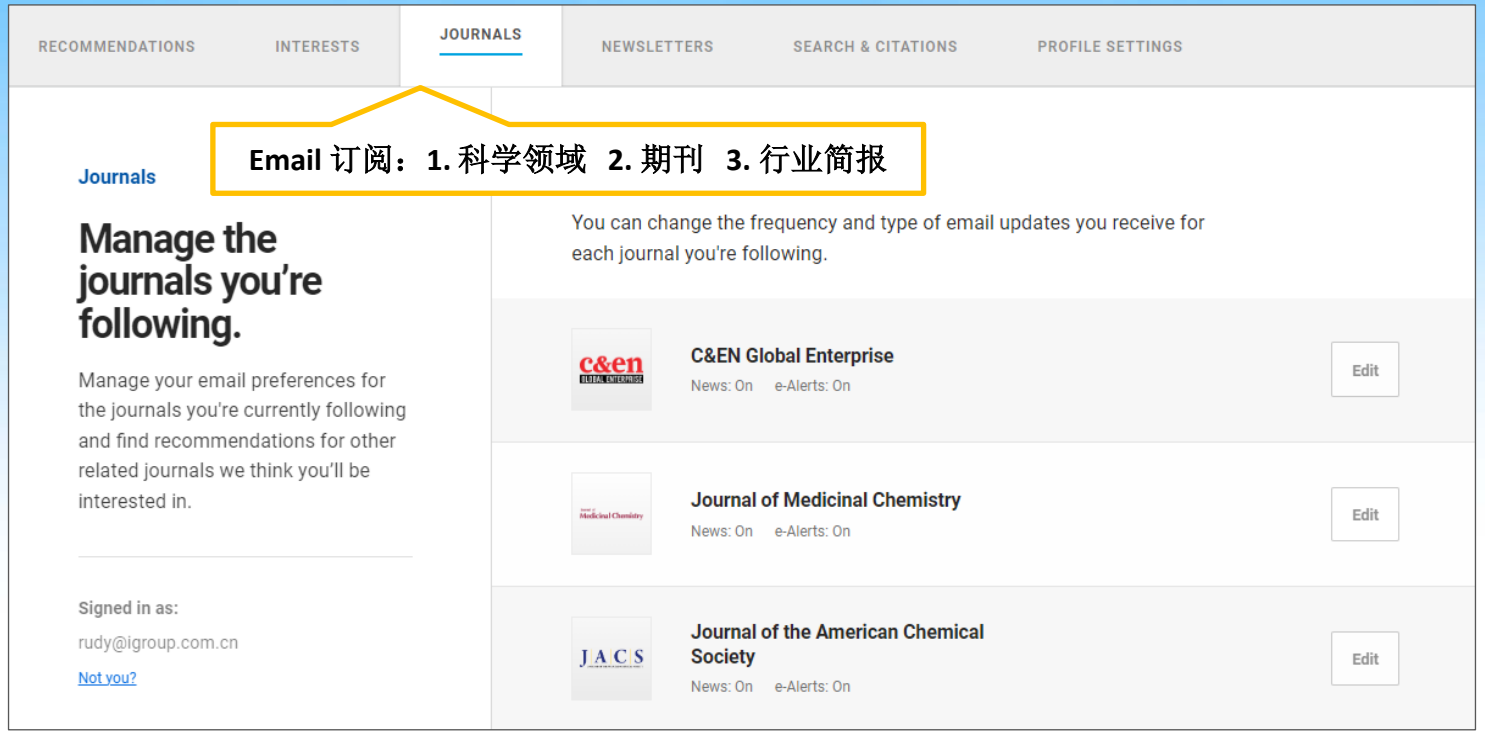

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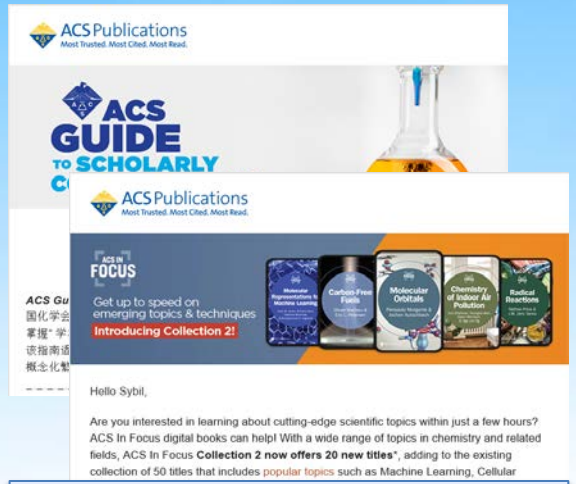

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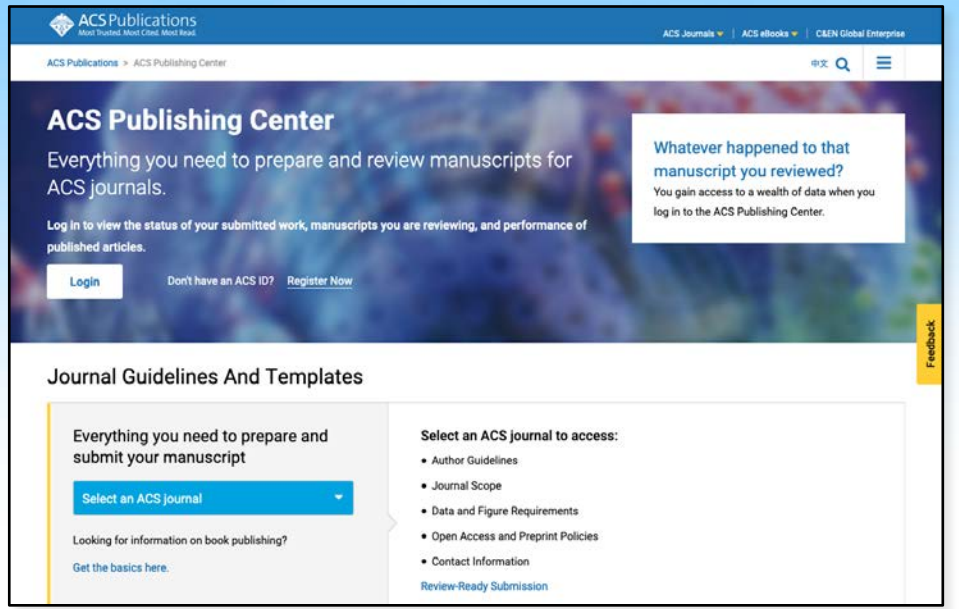

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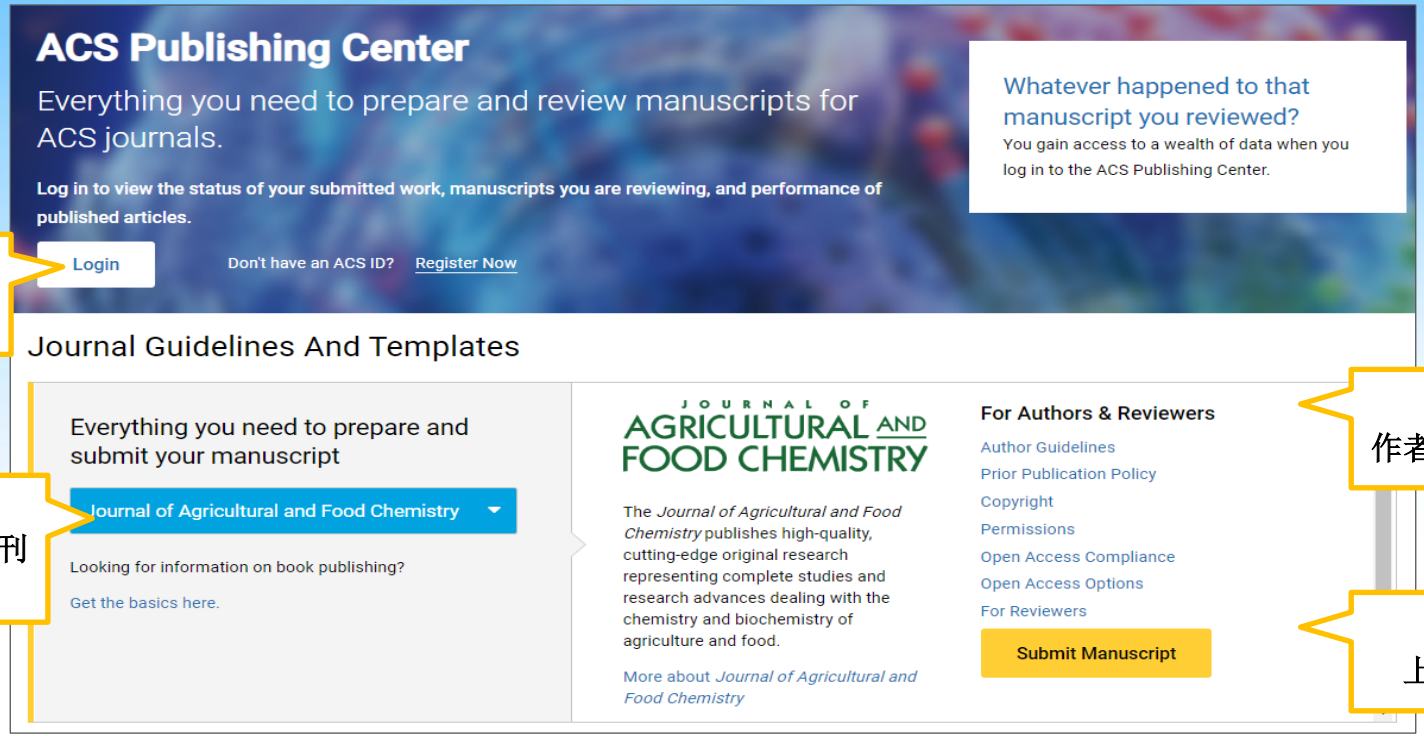

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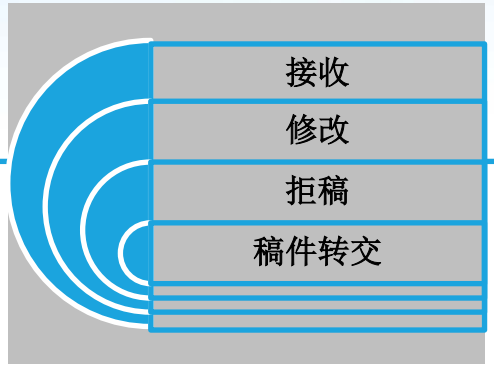

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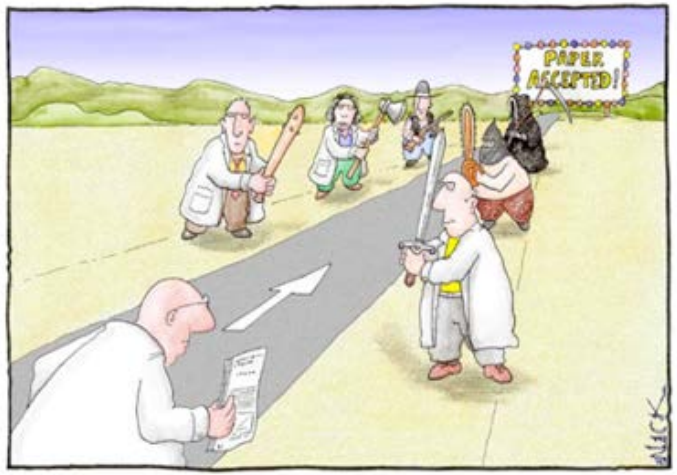

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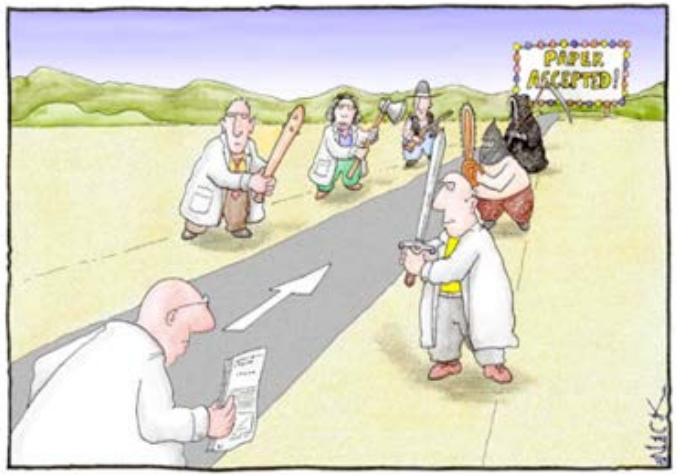
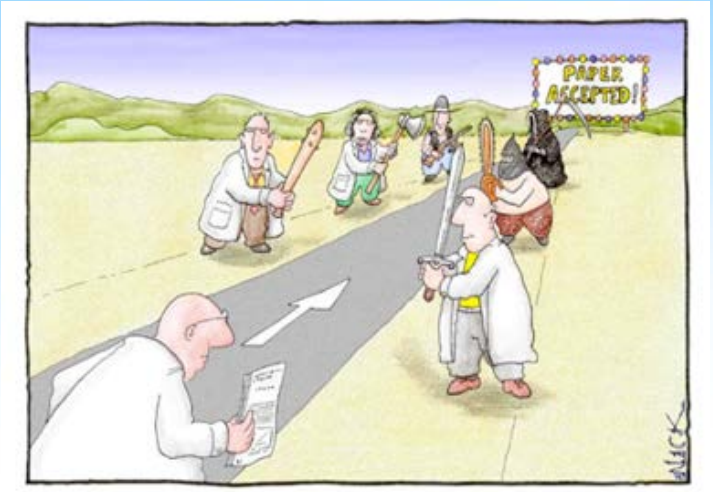
- **Transfer** 稿件转交服务
- **Reject** 拒稿，但也不用灰心



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

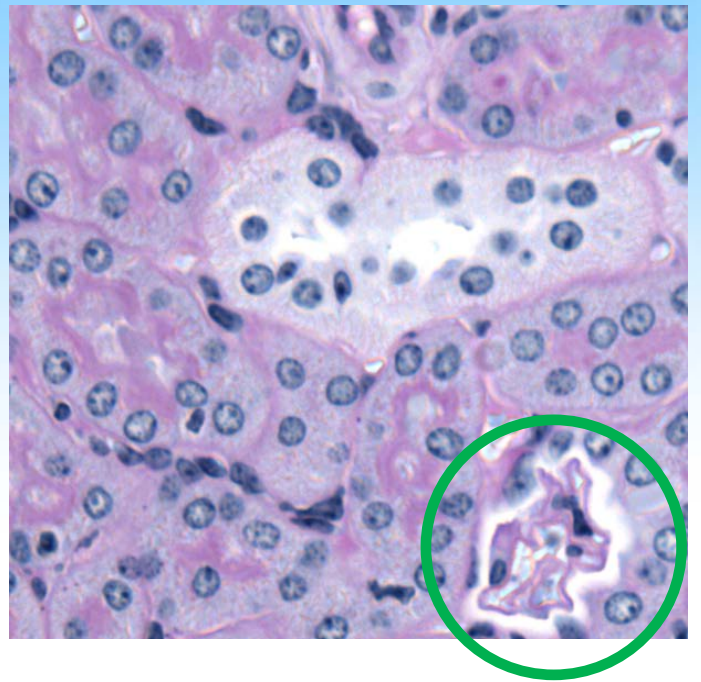
违反学术道德的常见情况

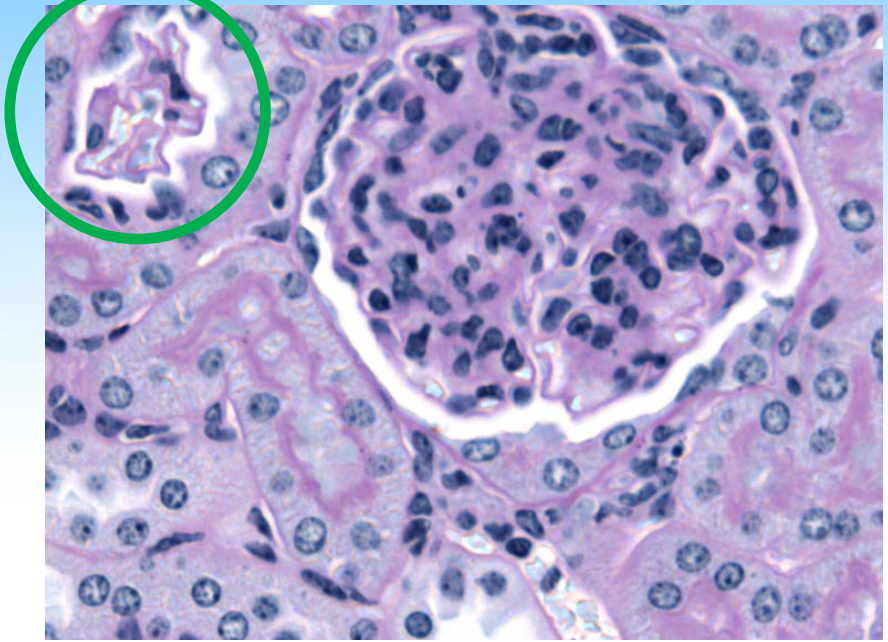
- 抄袭和自我抄袭
- 一稿多投
- 数据造假或篡改
- 有问题的原创作者



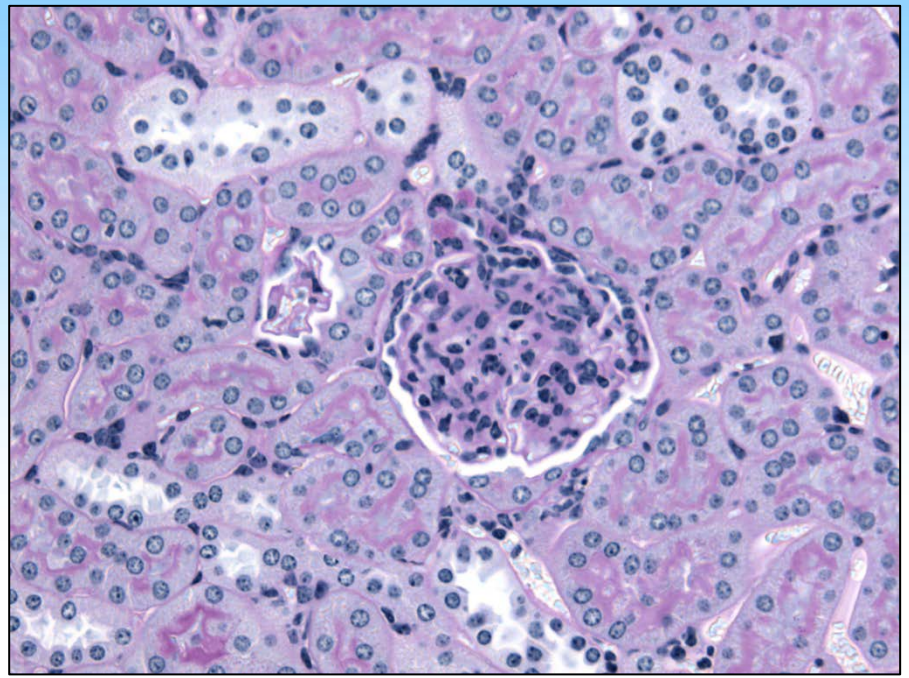
Most scientists regarded the new streamlined peer-review process as 'quite an improvement.'

你能找到两幅图中相同的部分吗？

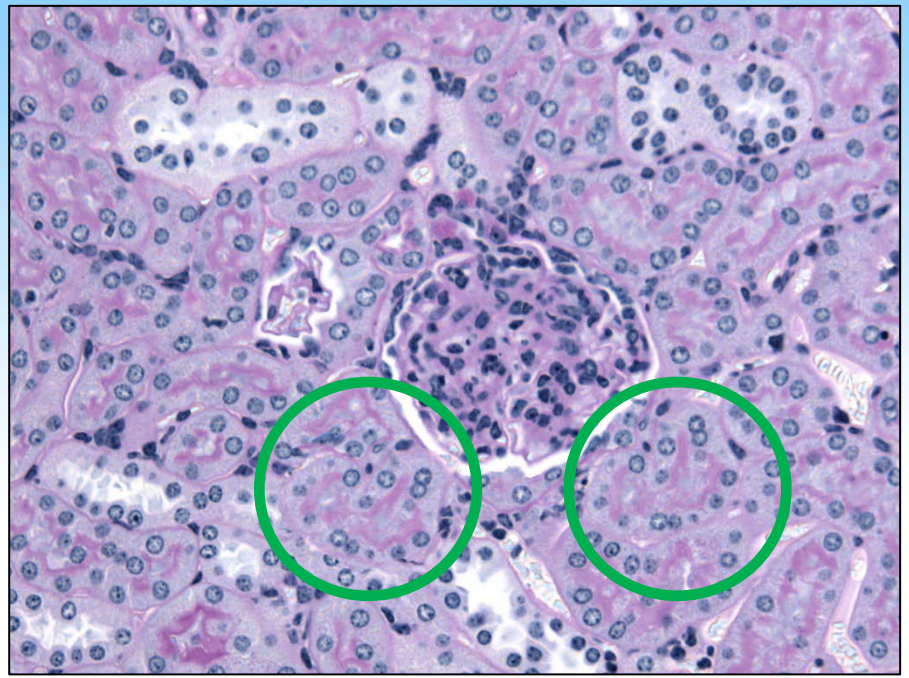




你能找到这幅图被人为修改过的地方吗？



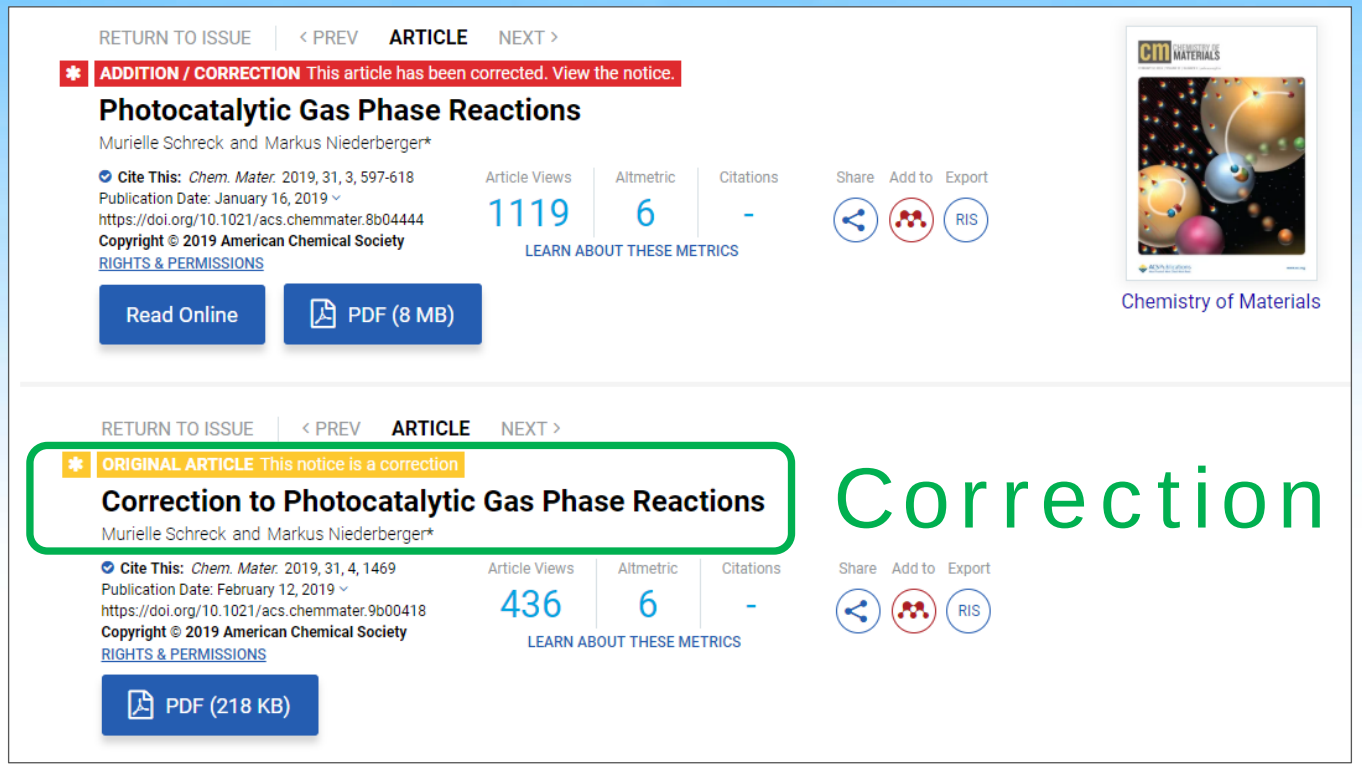
肉眼几乎找不到，但是图像检测工具可以。



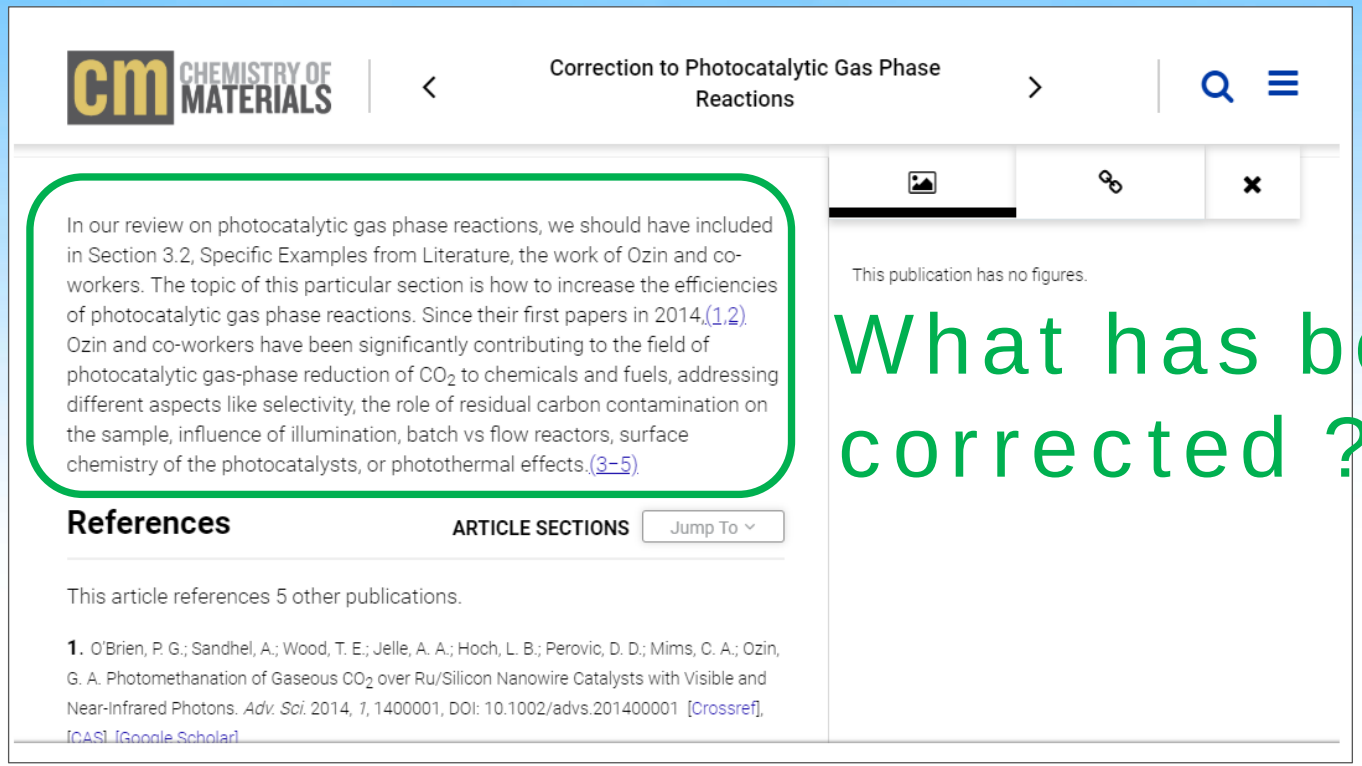
如果文章被撤稿，原因是什么？

- 进一步的研究揭示了数据中的缺陷
- 无法复制的结果
- 错误的分析
- 意外违反学术道德
- 故意违反学术道德

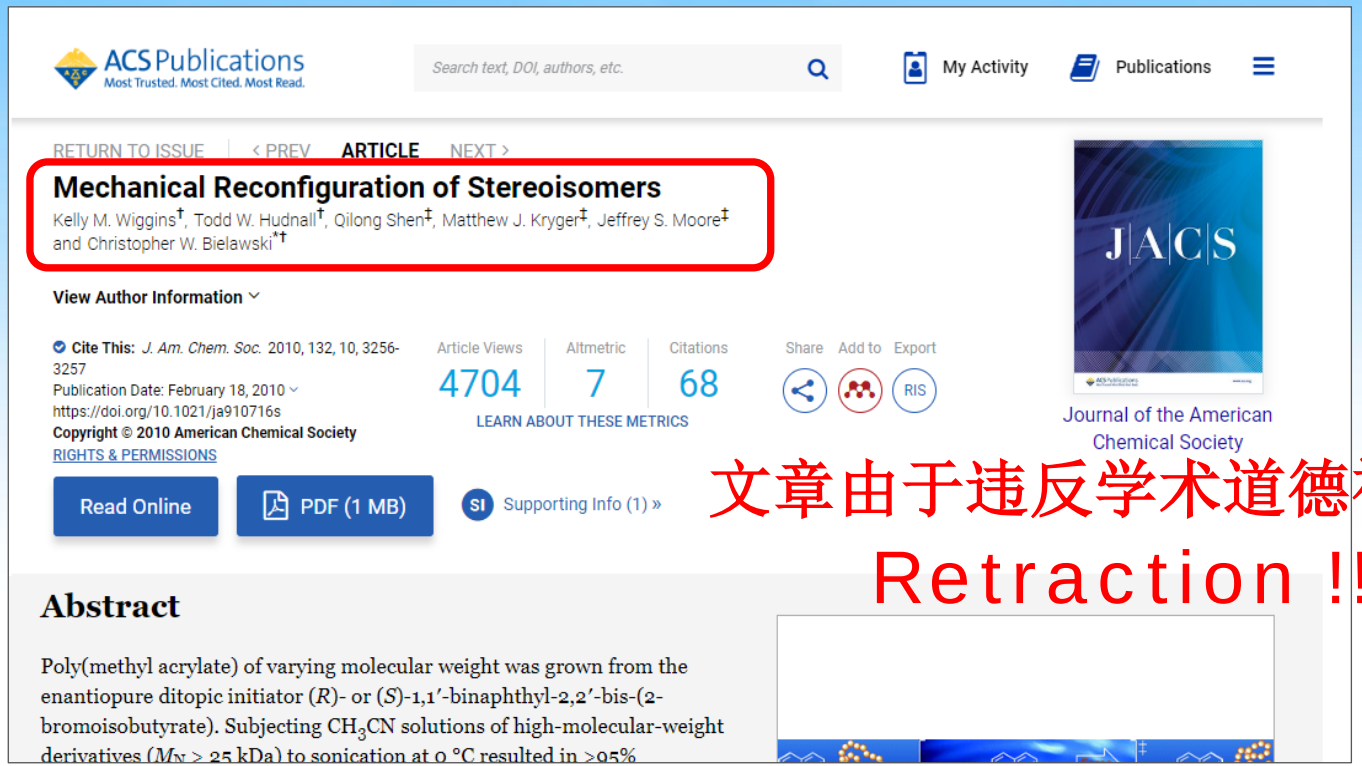
更正 Correction / 撤稿 Retraction



更正 Correction / 撤稿 Retraction



更正 Correction / 撤稿 Retraction



更正 Correction / 撤稿 Retraction

JACS
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

Retraction

pubs.acs.org/JACS

Retraction of "Mechanical Reconfiguration of Stereoisomers"

Kelly M. Wiggins, Todd W. Hudnall, Qilong Shen, Matthew J. Kryger, Jeffrey S. Moore, and Christopher W. Bielawski*

J. Am. Chem. Soc. **2010**, *132*, 3256−3257. DOI: 10.1021/ja910716s

Based on an investigation conducted by The Office of Research Integrity at The University of Texas at Austin, it was determined that the data and scientific conclusions of this article are unreliable as a result of scientific misconduct by one of the co-authors affiliated with the University at the time of its publication. The authors retract this article accordingly.

The original paper was published February 18, 2010 (*J. Am. Chem. Soc.* **2010**, *132*, 3256−3257. DOI: 10.1021/ja910716s), and retracted March 11, 2015.

撤稿说明

基于德克萨斯大学奥斯汀分校诚信研究办公室进行的一项调查，在发表这篇文章时，由于该大学的一名联合作者在科学上的不端行为，因此确定这篇文章的数据和科学结论是不可靠的。作者据此撤回了这篇文章。

课堂有奖答题

题目 1： ACS 出版的第一本期刊叫什么？

A. ACS Catalysis

B. Chemical Reviews

C. Journal of the American Chemical Society

D. Journal of Agricultural and Food Chemistry

题目 2：下列哪本期刊是综述期刊？

A. ACS Catalysis

B. ACS Nano

C. Energy & Fuels

D. Chemical Reviews

题目 3：检索“催化”这个词的最佳表达是哪个？

A. catalysis

B. catalyzed

C. cata*

D. cata?

Questions

课堂调查问卷

微信扫一扫