

# 利用ACS数据库做高品质科研

*“ To be the world's most trusted source of the comprehensive knowledge needed to cultivate the chemists of tomorrow ”*

- 1 期刊资源与科学前沿
- 2 数据库平台功能
- 3 期刊投稿与论文写作

主讲人：赵璟



# ACS是全球最大的科技学协会之一



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众多诺贝尔奖得主和顶尖研究者



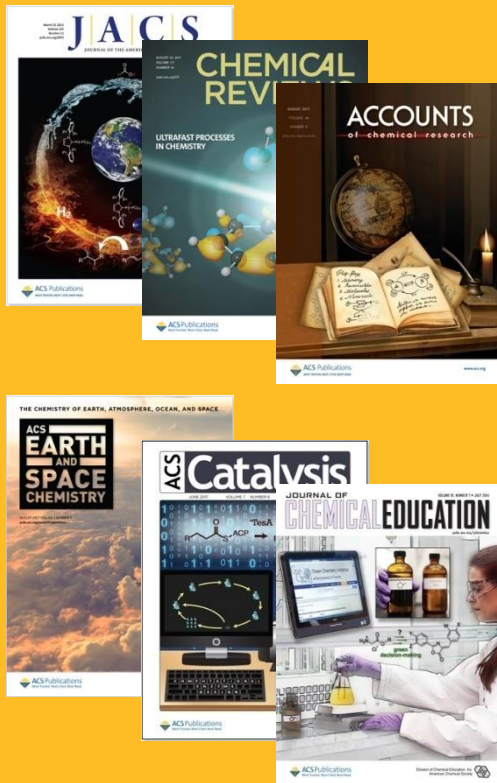
为高校和企业提供高品质的科技文献资源



促进化学和相关学科的交流与发展



# ACS期刊简介



- **56种** 高品质的学术期刊  
均为 **SCIE** 收录  
五年影响因子中位数 **6.004**
- **12个** 化学核心和相关学科里  
具有最高的引用量或影响因子
- 化学领域中最高的引用量  
2017年被引用次数超过 **290 万**
- 被 **Journal Citation Report (JCR)** 评为  
“化学领域被引用次数最多的期刊”

# Publishing disciplines

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

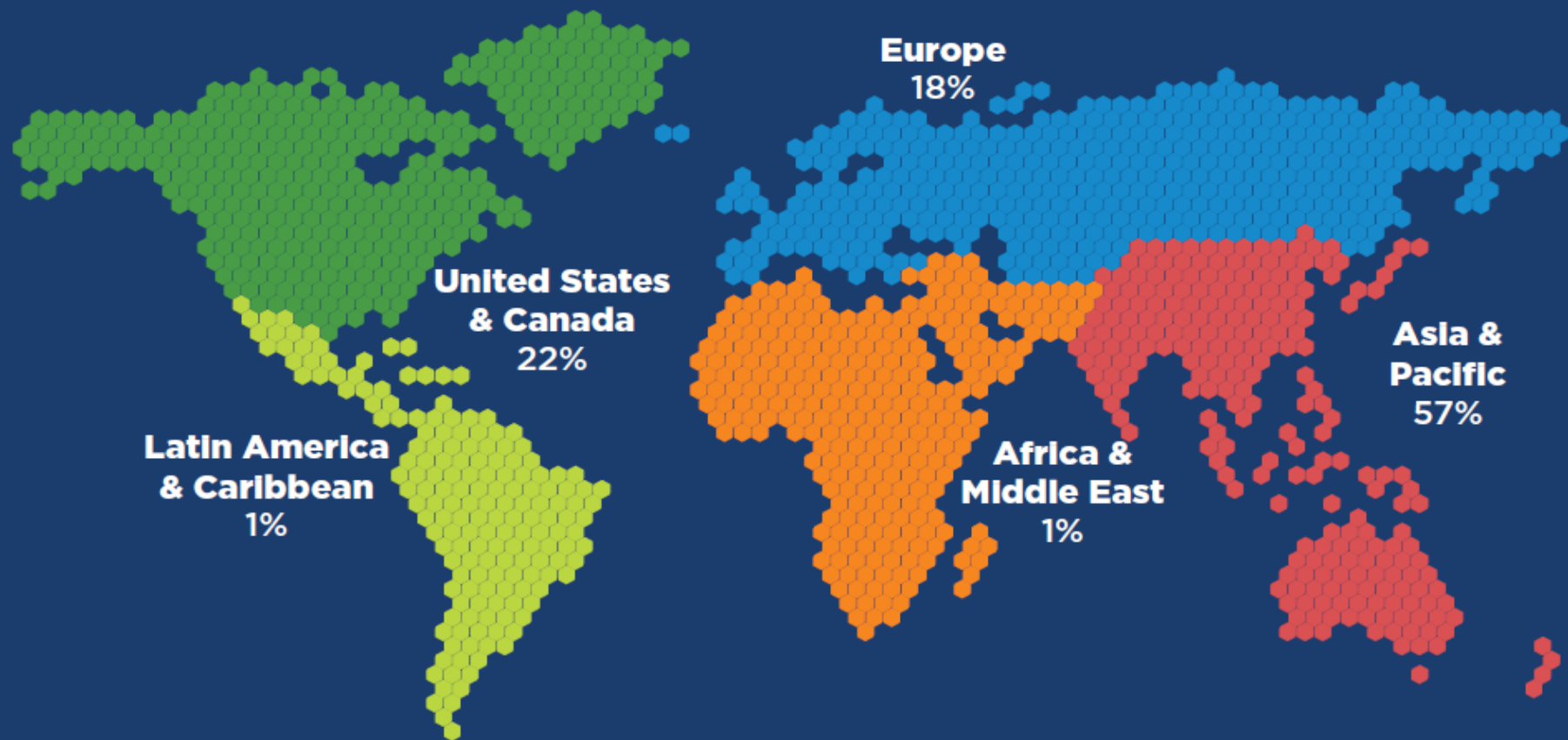
药理学和药剂学

毒理学

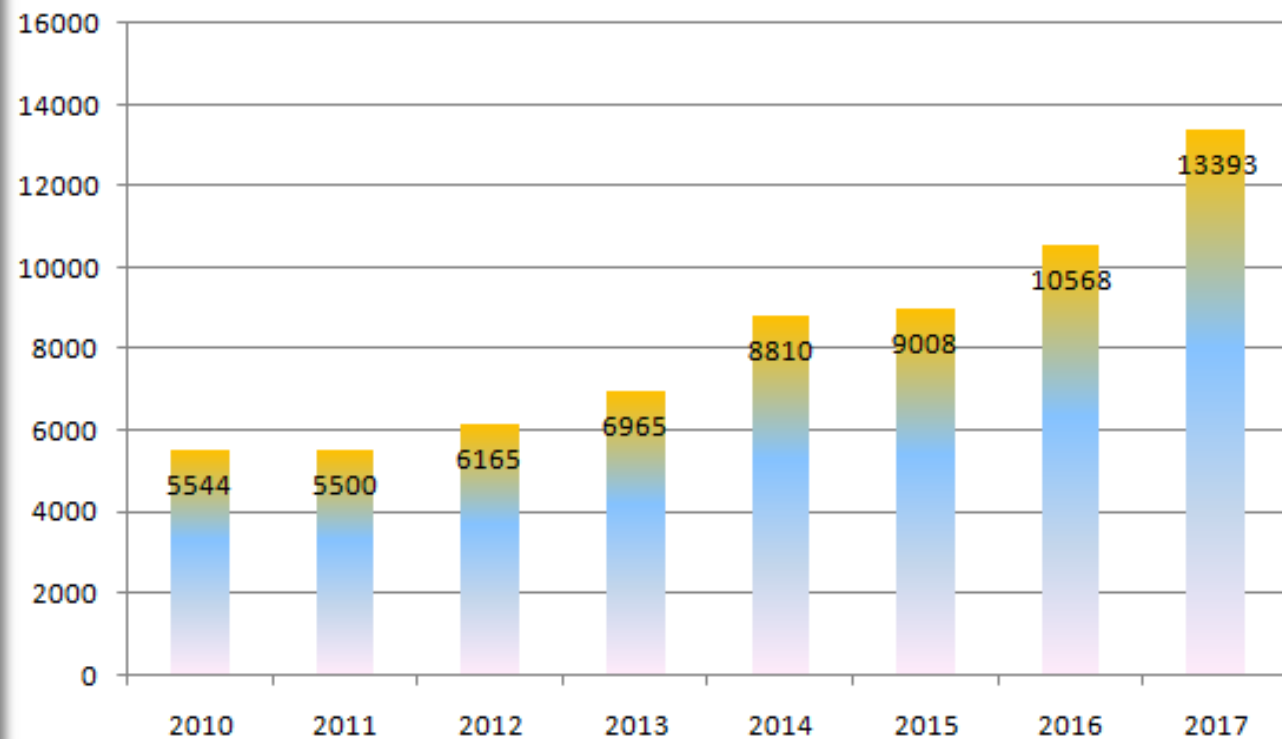


# 1 ACS 期刊与科学前沿

# ACS Published Manuscripts by Author Origins in 2017



# ACS Publications in China



Year	Published
2010	5544
2011	5500
2012	6165
2013	6965
2014	8810
2015	9008
2016	10568
2017	13393

Data Source: Web of Science

# 世界知名期刊

## Journal of the American Chemical Society

美国化学会志  
影响力最高的综合类化学期刊

## Chemical Reviews

化学综述

## Accounts of Chemical Research

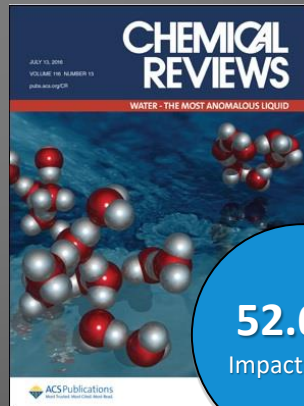
化学研究述评

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**JACS began publication in 1879**

收录化学所有领域  
顶尖的研究成果





Articles ASAP Just Accepted Current Issue Most Read Virtual Issues ACS Editors' Choice

Read the most recent JACS Editor curated online collections of previously published research on areas of current scientific interest.

## New Issues

Natural Product Total Synthesis

Synthetic Chemistry Addressing Challenges in Energy and the Environment

Advances in Electroanalytical Chemistry

## Past Issues

View virtual issues from the past 12 months

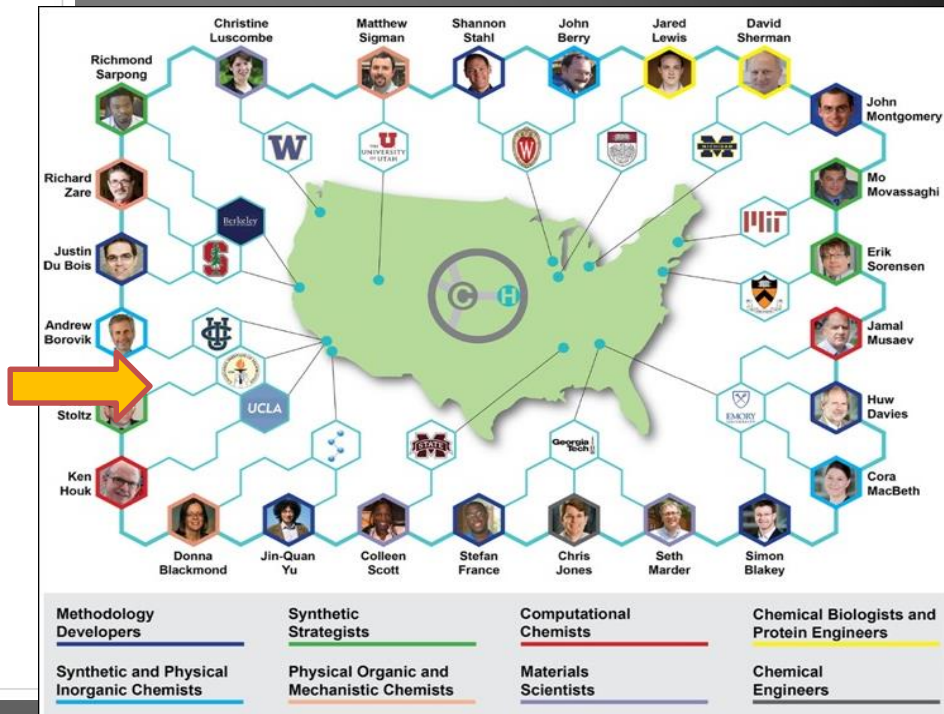


- Virtual Issue on Engineered Biomolecular Catalysts – 20 selected articles and communications
- JACS Young Investigator Virtual Issue
- Celebrating the Life and Career of Millie Dresselhaus
- Reticular Chemistry — Construction, Properties, and Precision Reactions of Frameworks
- The Way Forward in Molecular Electrocatalysis
- Recent Advances in C–H Functionalization
- Bioinorganic Chemistry
- Ligand Design
- Organocatalysis
- ACS Select on Carbon Capture and Sequestration Technology
- Inorganic Chemistry Driving the Energy Sciences
- Protein Dynamics in Simulation and Experiment

比如：  
**C – H Functionalization**  
碳氢活化和它的研究者们

View the ACS Publications Virtual Issue Collection.

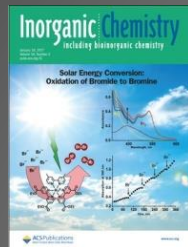
每一种期刊的文章栏目里  
收录了其领域里众多的  
前沿研究热点



# 无机化学、有机化学、物理化学、分析化学



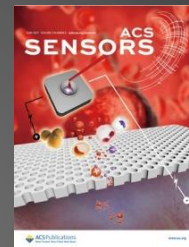
**Crystal Growth & Design**  
IF = 3.972



**Inorganic Chemistry**  
IF = 4.700



**Analytical Chemistry**  
IF = 6.042



**ACS Sensors**  
IF = 5.711



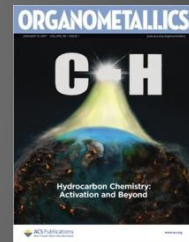
**The Journal of Organic Chemistry**  
IF = 4.805



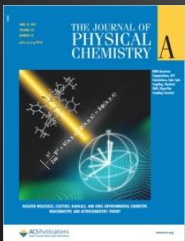
**Organic Letters**  
IF = 6.492



**Organic Process Research & Development**  
IF = 3.584



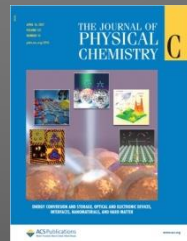
**Organometallics**  
IF = 4.051



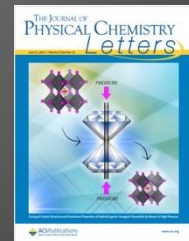
**The Journal of Physical Chemistry A**  
IF = 2.836



**The Journal of Physical Chemistry B**  
IF = 3.146

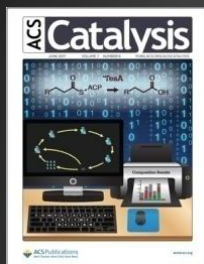


**The Journal of Physical Chemistry C**  
IF = 4.484



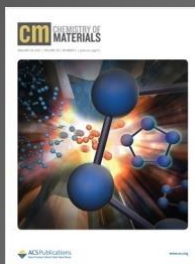
**The Journal of Physical Chemistry Letters**  
IF = 8.709

## 催化



**ACS  
Catalysis**  
IF = 11.384

## 材料



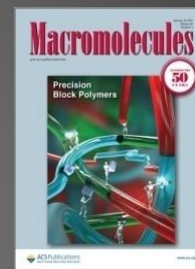
**Chemistry of  
Materials**  
IF = 9.890

## 纳米科学



**ACS  
NANO**  
IF = 13.709

## 高分子



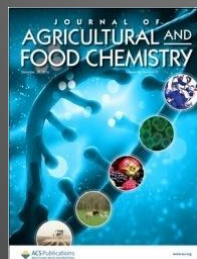
**Macromolecules**  
IF = 5.914

## 药物化学



**Journal of  
Medicinal  
Chemistry**  
IF = 6.253

## 农业与食品化学



**Journal of  
Agricultural  
and Food  
Chemistry**  
IF = 3.412

## 化学工程



**Industrial &  
Engineering  
Chemistry  
Research**  
IF = 3.141

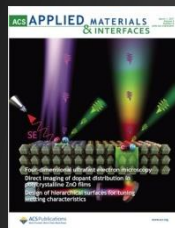
## 环境科学与技术



**Environmental  
Science &  
Technology**  
IF = 6.653



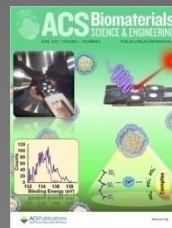
# Materials Science



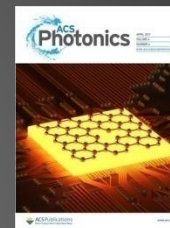
**ACS Applied  
Materials &  
Interfaces**  
IF = 8.097



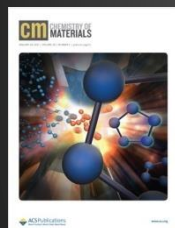
**ACS NANO**  
IF = 13.709



**ACS  
Biomaterials  
Science &  
Engineering**  
IF = 4.432



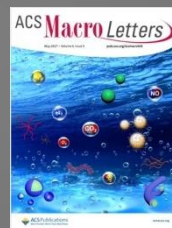
**ACS  
Photonics**  
IF = 6.880



**Chemistry of  
Materials**  
IF = 9.890



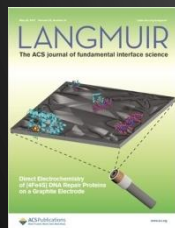
**NANO  
Letters**  
IF = 12.080



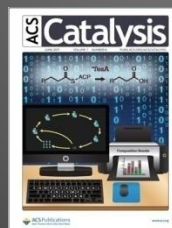
**ACS Macro  
Letters**  
IF = 6.131



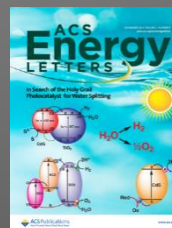
**ACS  
Central  
Science**  
IF = 11.228



**Langmuir**  
IF = 3.789



**ACS  
Catalysis**  
IF = 11.384



**ACS  
Energy  
Letters**  
IF = 12.277

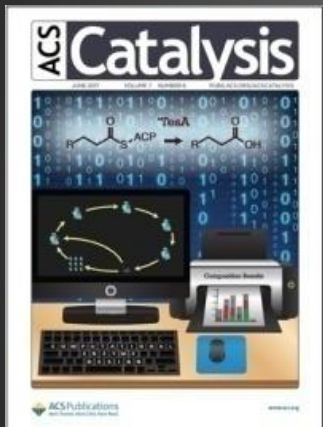


**JACS**  
IF = 14.357



# ACS Catalysis

催化领域的权威综合期刊，最新影响因子 **IF = 11.384**



**Editor-in-Chief**  
**Christopher W.**  
**Jones**

## Journal Scope

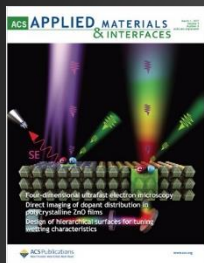
**ACS Catalysis** 发表各个分支领域（均相催化、多相催化和酶催化）具有较高影响力的多学科催化科学研究。

报道在任何传统催化分支中的催化研究进展，突出具有独特催化反应性能、在分子或原子级别上理解催化作用的研究，强调采用通用的标准（转换率、转换数和选择性）来表征催化剂。

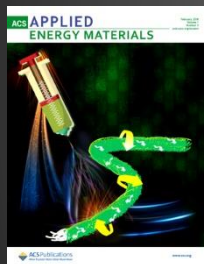
访问地址: <https://pubs.acs.org/journal/accacs>



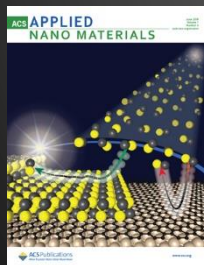
# 应用材料系列期刊



**ACS  
Applied  
Materials &  
Interfaces**  
IF = 8.097



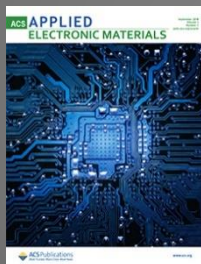
**ACS  
Applied  
Energy  
Materials**  
New in 2018



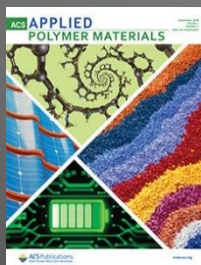
**ACS  
Applied  
Nano  
Materials**  
New in 2018



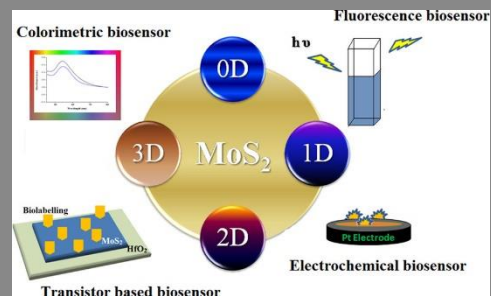
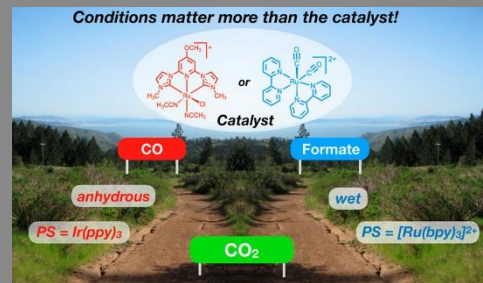
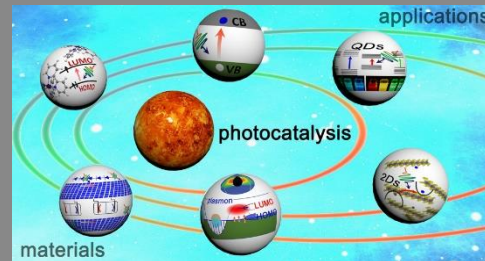
**ACS  
Applied  
Bio Materials**  
New in 2018



**ACS  
Applied  
Electronic  
Materials**  
New in 2019



**ACS  
Applied  
Polymer  
Materials**  
New in 2019



# Open Access Journals 开源期刊



## ACS Central Science 2015 年出版

- 跨学科化学期刊
- 具有前瞻性和开创性的研究成果
- 每年仅发表 100 - 200 篇研究类文章
- 最新影响因子 **IF = 11.228**

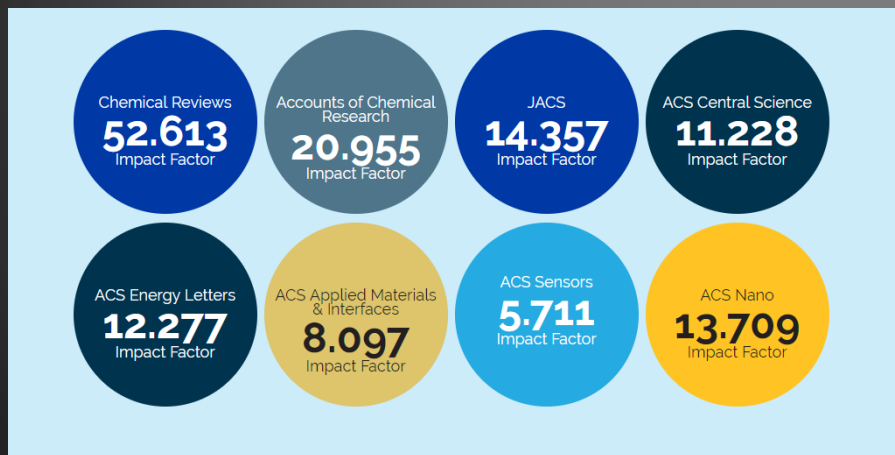


## ACS Omega 2016 年出版

- 跨学科化学期刊
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**5.382**



## 2 数据库平台功能



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Publications



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*J. Am. Chem. Soc.* 2019, 141, 3171  
Guo, Zhang, Zh

Search publications / articles / authors / dois / keywords / etc



1,300,000 Research Articles

100,000 News Stories

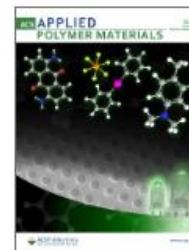
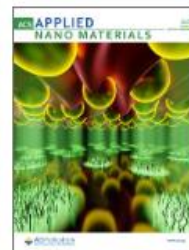
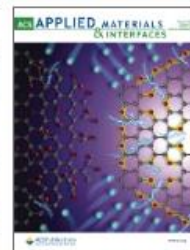
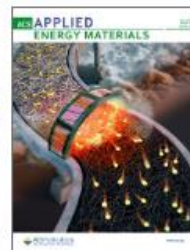
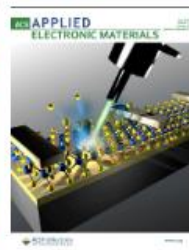
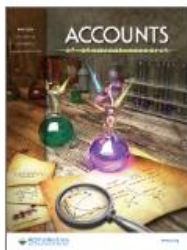
35,000 Book Chapters

1,000 References & Standards

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*J. Am. Chem. Soc.* 2019, 141, 3171-3177  
Guo, Zhang, Zhu et al.

1,300,000 Research Articles

100,000 News Stories

35,000 Book Chapters

1,000 References & Standards

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- ☐ Analytical
- ☐ Applied
- ☐ Biological
- ☐ Materials Science & Engineering
- ☐ Organic-Inorganic
- ☐ Physical

ACS期刊

学科分类

## A

Accounts of Chemical Research

ACS Applied Bio Materials

ACS Applied Electronic Materials

ACS Applied Energy Materials

ACS Applied Materials & Interfaces

ACS Applied Nano Materials

ACS Applied Polymer Materials

ACS Biomaterials Science & Engineering

ACS Catalysis

ACS Central Science

ACS Chemical Biology

ACS Chemical Neuroscience

ACS Combinatorial Science

ACS Earth and Space Chemistry

ACS Energy Letters

ACS Infectious Diseases

## ACS Macro Letters

ACS Materials Letters

ACS Medicinal Chemistry Letters

ACS Nano

ACS Omega

ACS Pharmacology & Translational Science

ACS Photonics

ACS Sensors

ACS Sustainable Chemistry & Engineering

ACS Synthetic Biology

Analytical Chemistry

## B

Biochemistry

Bioconjugate Chemistry

Biomacromolecules

Biotechnology Progress

## C

Chemical Research in Toxicology

Chemical Reviews

Chemistry of Materials

Crystal Growth & Design

## E

Energy & Fuels

Environmental Science & Technology

Environmental Science & Technology Letters

## I

I&EC Product Research and Development

Industrial & Engineering Chemistry

Industrial & Engineering Chemistry Analytical Edition

Industrial & Engineering Chemistry Chemical & Engineer

Industrial & Engineering Chemistry Fundamentals

Industrial & Engineering Chemistry Process Design and

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LAB 审稿培训课程

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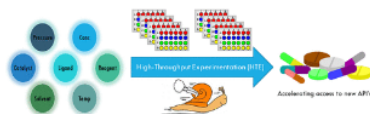
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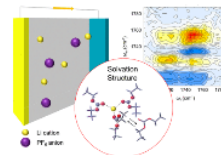
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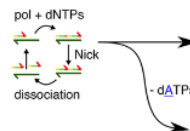
**The Evolution of High-Throughput Experimentation in Pharmaceutical Development and Perspectives on the Future**

Steven M. Mennen\*, Carolina Alhambra and ...  
May 7, 2019



**Two-Dimensional Infrared Spectroscopy and Molecular Dynamics Simulation Studies of Nonaqueous Lithium Ion Battery ...**

Joonhyung Lim, Kyung-Koo Lee and ...  
May 10, 2019



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Periodic Table Through  
Analytical & Applied  
Chemistry

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Why are peer reviewers so important?



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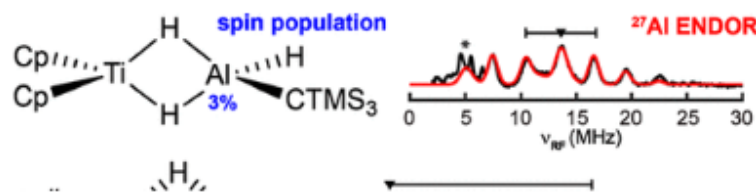
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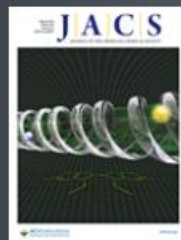


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Volume 141, Issue 21  
May 29, 2019

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Sibasish Paul, ... and Marvin H. Caruthers\*

May 30, 2019

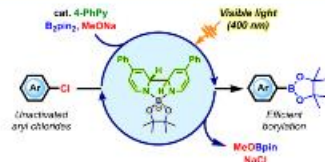


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# 3 ACS 期刊投稿 SCI 科技论文写作



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# J. Org. Chem. 期刊的 Author Guidelines

## Scope of the Journal

*The Journal of Organic Chemistry (JOC)* welcomes original contributions of fundamental research in all branches of the theory and practice of organic chemistry. In selecting manuscripts for publication, the editors place emphasis on the quality and originality of the work as well as the breadth of interest to the organic chemistry community.

Total synthesis and other multistep synthesis manuscripts are expected to demonstrate novel strategies, new synthetic transformation methods, or shortened routes to target structures. Manuscripts illustrating new synthetic methods need to show conceptual novelty, not merely the extension of previously reported chemistry to a different class of reaction substrates, reagents, or catalysts. Natural products isolation and identification studies should report unusual skeletal features, improvements in identification methods, or insights into biosynthetic pathways. Manuscripts with a major component of biology, analytical chemistry, or materials science should demonstrate novelty in the organic chemistry portion of the work being reported.

### 期刊范围:

有机化合物的全合成, 多步合成, 短路径靶向结构合成

新合成方法需要展现全新的思路概念

天然产物的分离和鉴定报道新的化合物骨架特点和分析鉴定方法的进展

# SCI 科技论文基本结构

## 前段

标题

摘要

关键字

## 中段

正文

I 引言  
M 方法  
R 结果  
D 讨论

## 后段

C 结论

SI 资料

致谢

参考文献

# Title 起一个引人注目的标题

简明，包含了研究里重要的信息

- **CONCISE, Contains relevant information**

避免一些复杂的和主观的用词

- **Avoid** unusual abbreviations
- **Avoid** complicated wording
- **Avoid** buzz words and hard-to-justify claims like “**first**” and “**only**”
- **Avoid** asking a question in the title
  
- **TOPIC - focussed** ( What is it about ? )
- **RESULT - focussed** ( What did we find ? )



# Graphics 图片



- Be clear, precise
- Informative
- Support your text
- Use color
- Original
- Unpublished

## TOC Graphics

- Capture the reader's attention
- Give a quick visual impression

### Article

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

Katherine L. Walker<sup>†</sup> , Laura M. Dornan<sup>†‡</sup> , Richard N. Zare<sup>†</sup> , Robert M. Waymouth<sup>††</sup> , and Mark J. Muldoon<sup>††</sup> 

<sup>†</sup> Department of Chemistry, Stanford University, Stanford, California 94305, United States

<sup>‡</sup> School of Chemistry and Chemical Engineering, Queen's University Belfast, Belfast, Northern Ireland, BT9 5AG, United Kingdom

*J. Am. Chem. Soc.*, 2017, 139 (36), pp 12495–12503

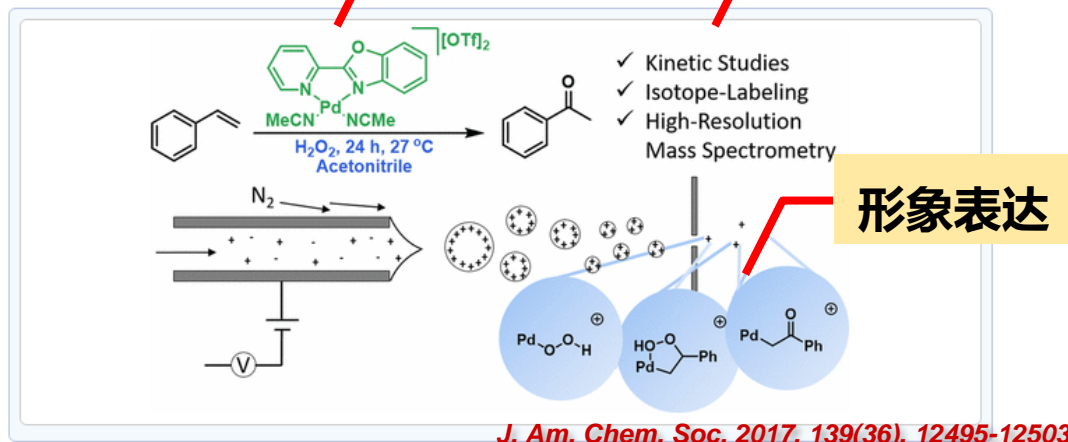
DOI: 10.1021/jacs.7b05413

Publication Date (Web): August 29, 2017

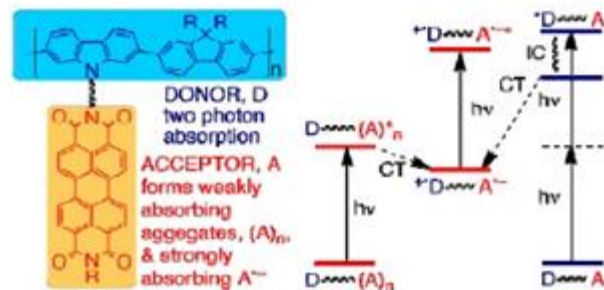
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### Abstract



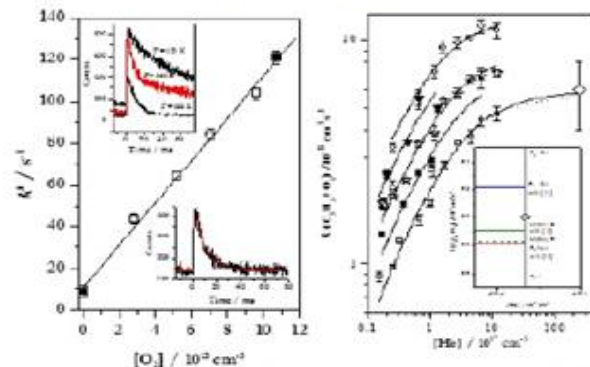
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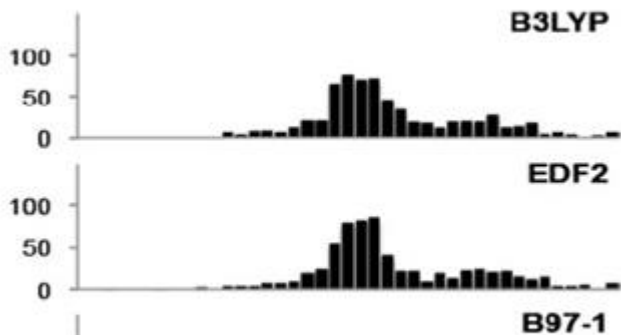
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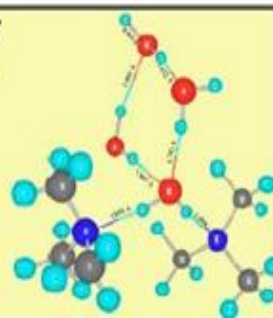
## POOR GRAPHICS



Graphic is uninteresting and not informative.



*H-bonded  
Trimethyl  
amine-  
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Cluster*



The font is too big, the image says nothing about the article, and the type on the image is unreadable.



# Language and Text 语言文字表述

- 专业词汇的积累
- IUPAC 和 缩写
- 母语和英语的不同
- 不断练习
- 客观表达 避免主观语句
- 逻辑清晰 > 句式复杂
- 自我修改 / 他人修改
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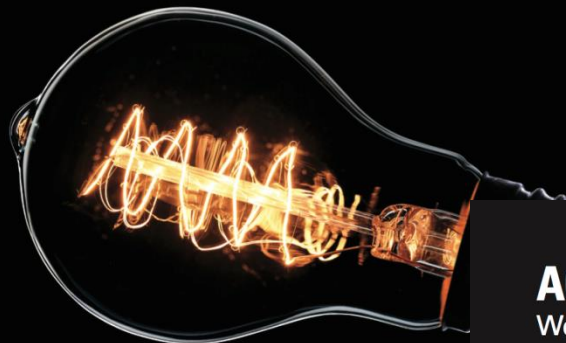
## Abstract

Pulmonary vessel stapling is the most important but challenging part ~~in of~~ thoracoscopic pulmonary lobar and segmental resection. Many thoracoscopy specialists use ~~a~~ guiding method with ~~an~~ introducer ~~for stapler applying to apply staples. After~~ Since the ~~commercialization~~ introduction of the modified stapler with ~~a~~ curved ~~and angular~~ anvil tip, ~~more and more~~ surgeons ~~prefer applying have come to prefer stapling~~ pulmonary vessels without guidance. However, many problems ~~are still concerned~~ ~~when using~~ remain with the use of this new product in current clinical practice. ~~We~~ Here we propose an easy method with ~~an~~ additional handmade Nelaton cap applied at the anvil tip of ~~the~~ stapler. Through this ~~instrumental~~ modification ~~of the instrument~~, we may perform pulmonary vessel stapling without the aid ~~of an~~ introducer and reduce the possibility of vascular injury during the looping and ~~the~~ dividing of the pulmonary vessels by the staplers ~~with using~~ a safer and lower cost method.

## Introduction

Pulmonary vessel dissection ~~was is~~ the most technically ~~-~~ demanding part ~~in of~~ thoracoscopic pulmonary lobectomy, and the surgical technique ~~used for it has~~ evolved ~~much~~ ~~greatly~~ with the development of new instruments. Since the commercialization of the flexible Endo ~~-~~ GIA™, ~~anvil applying to the application of the anvil to the~~ pulmonary vessel ~~was much easier from optimal~~ ~~directions~~ ~~has become optimized~~. However, it ~~is still remains~~ critical ~~concern~~ during surgery to ~~put pass the~~ anvil of ~~the~~ stapler ~~pass through the~~ pulmonary vessels, and various methods ~~was reported~~ such as ~~the~~ Penrose drain tube or Nelaton ~~tube tube~~-guided<sup>[1]</sup> methods ~~have been reported~~. The current product<sup>[2]</sup>, ~~a~~ curved-tip stapler, was invented from the proto-type of ~~a~~ long guiding tube placed over ~~the~~ stapler tip. ~~There are still~~ Both methods have concerns and drawbacks ~~with both methods and both~~ ~~methods and~~ require further modifications. ~~We~~ Here we propose ~~and invent~~ a new design ~~we invented~~ in our recent daily practice, ~~which that~~ is now our ~~most~~ preferred approach ~~for to~~ pulmonary vessel stapling.

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致某位ACS期刊编辑  
Dear Professor XXX

## Cover Letter 投稿信

标题是什么，并提及投稿的期刊

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

研究工作的重点和亮点 （**a synopsis of the article**）

**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. （有亮点的关键性数据）



## 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.

通讯作者（详见各期刊指南对投稿信的写作要求）

**Name of the Corresponding Author**

postal and e-mail addresses, telephone and fax numbers

其它

**A point-by-point response to reviewer comments (for resubmissions and transfers after peer review)** 转投另一期刊时，附上之前评审人的意见



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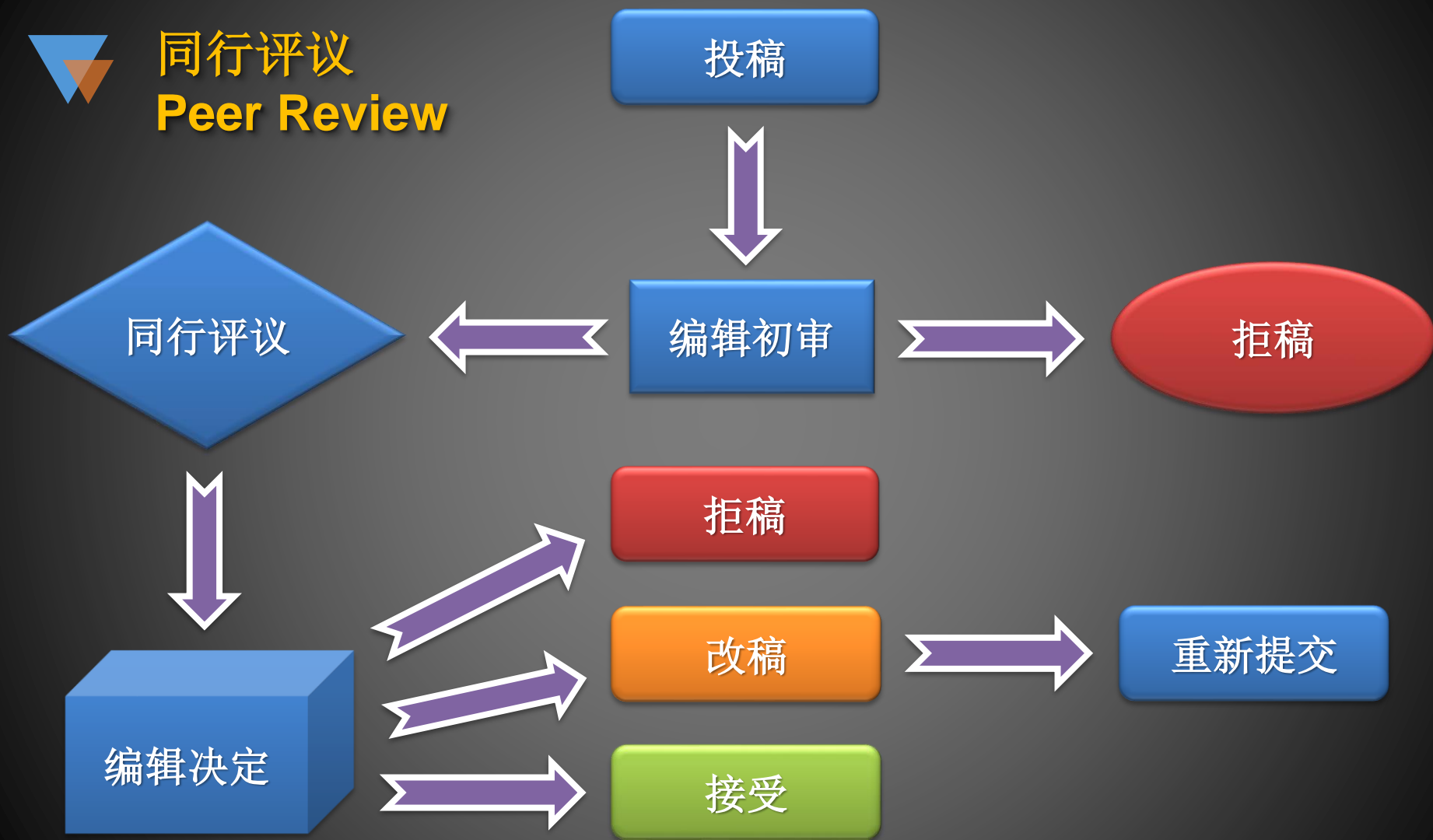
## Checklist for Submission:

- Title
- Abstract
- Manuscript File (.doc, .pdf)
- Supporting Information
- Cover Letter
- Graphic
- Author Names
- Preferred Editor Name
- Preferred Reviewer's Name

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# 同行评议 Peer Review



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Reviewers are selected from a pool of experts to independently assess the work.

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- **Broad knowledge and understanding of the field**
- **Technical expertise to evaluate experiments, data and interpretation**
- **Ability to offer constructive, fair and unbiased opinions**

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- **Collaborators** 同事
- **Anyone with a conflict of interest** 潜在的利益冲突者

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