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XI' AN UNIVERSITY OF ARCHITECTURE AND TECHNOLOGY

ACS资源使用与期刊投稿写作

朱苗
ACS数据库培训师
iGroup China
2021/05/13

目录

- ACS文献资源与平台功能
- ACS期刊论文与写作要点
- ACS期刊投审流程与注意事项

ACS 美国化学会简介

- 1876年 美国化学会成立
- 世界上最大的科技学协会
- 全球超15万名 ACS会员

ALL ABOUT

ACS PUBLICATIONS

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60+

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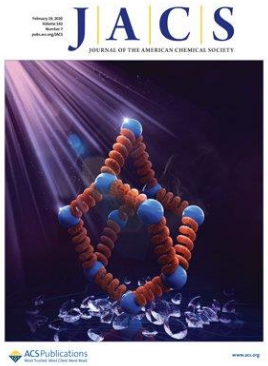

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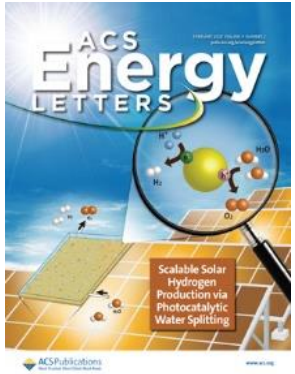

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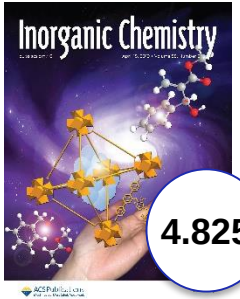

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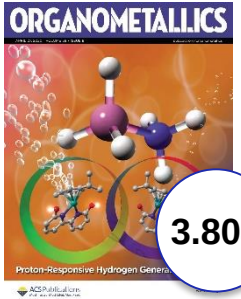

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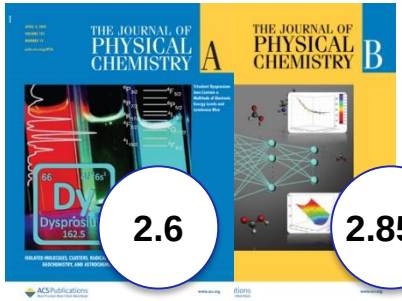

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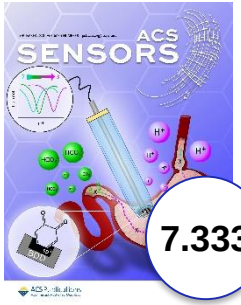

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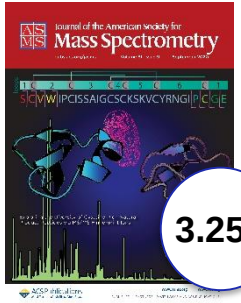

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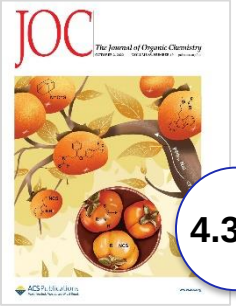

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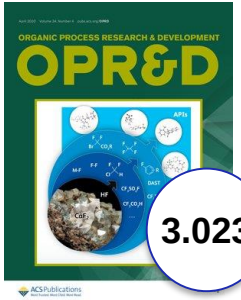

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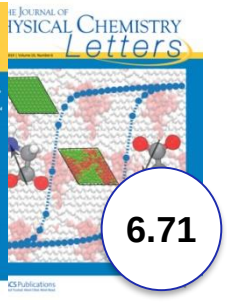

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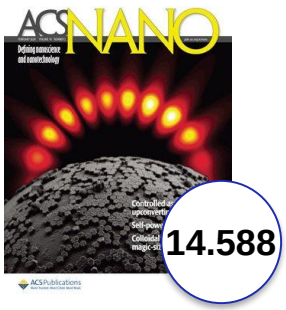

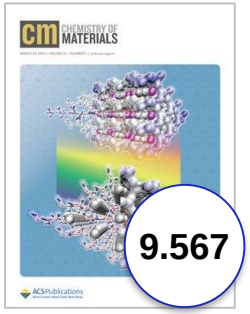

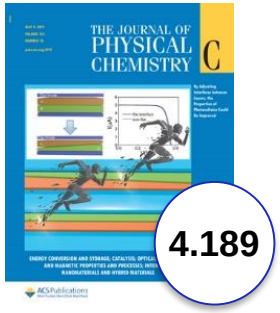

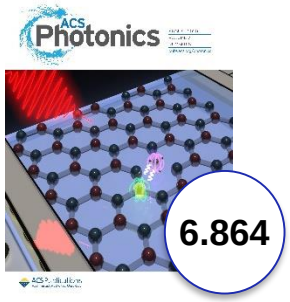

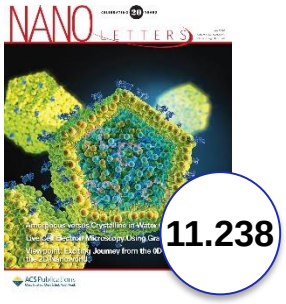

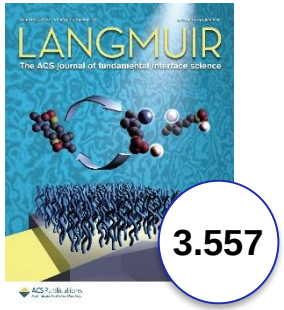

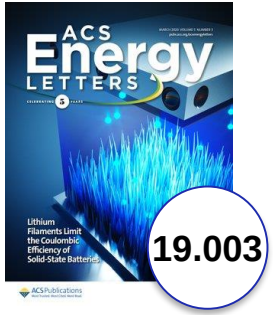

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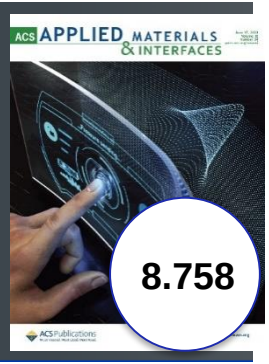

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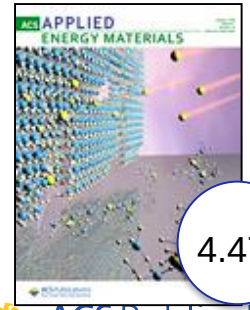

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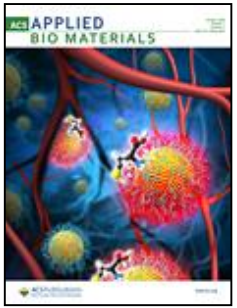
Energy

SCI 收录

Nano



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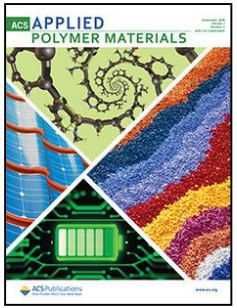

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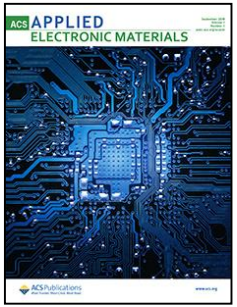

Electron

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2020.9上线

Accounts of materials research

- 2020年6月1日创刊，是ACS 首本国际合作期刊
- 与上海科技大学合作出版
- 发表简明扼要的**评论性综述**文章，概述**材料科学和工程各领域的基础和应用研究**。这些简短的综述将聚焦于作者自己的研究，旨在向读者介绍系统的研究工作
- 文章目前仅限**邀稿**，但是可以提交**proposal供审阅**

创刊主编 黄嘉兴
美国西北大学
材料科学与工程系

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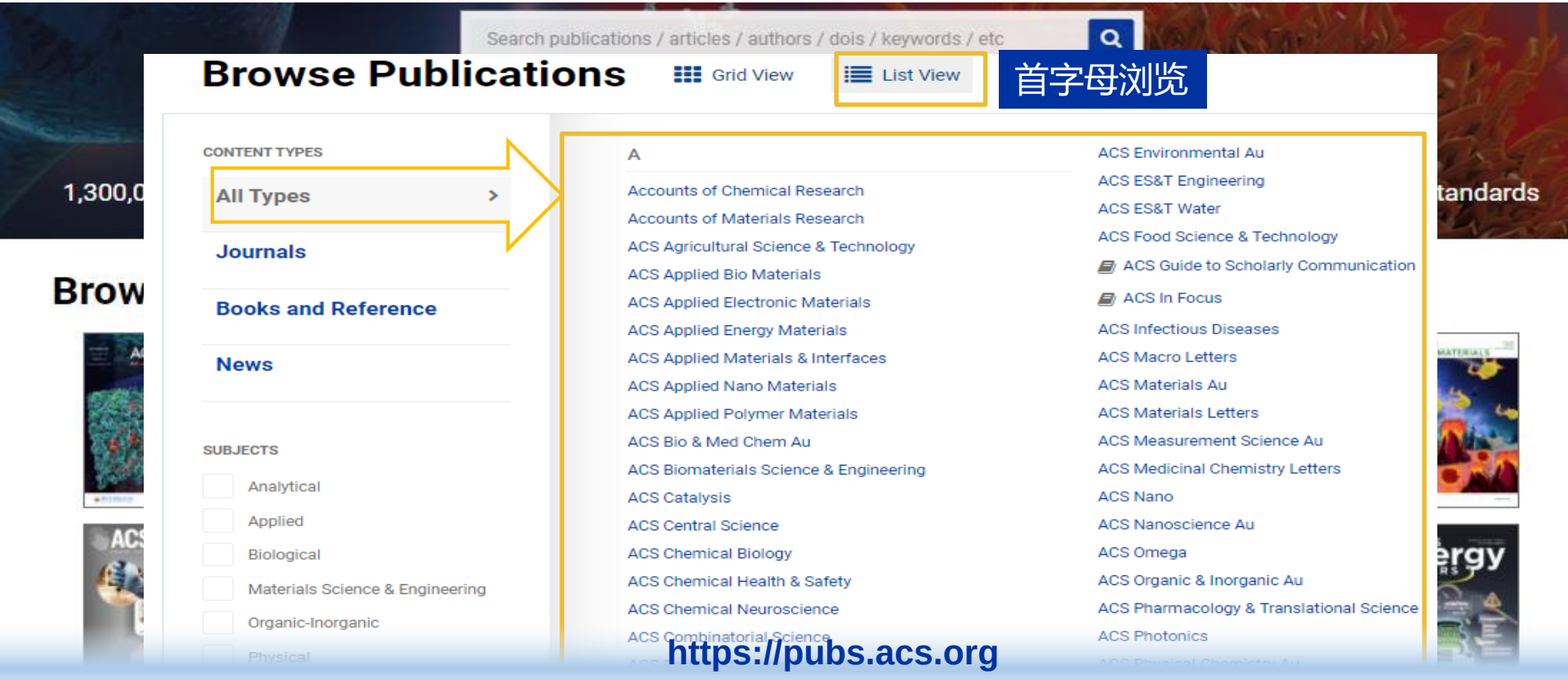

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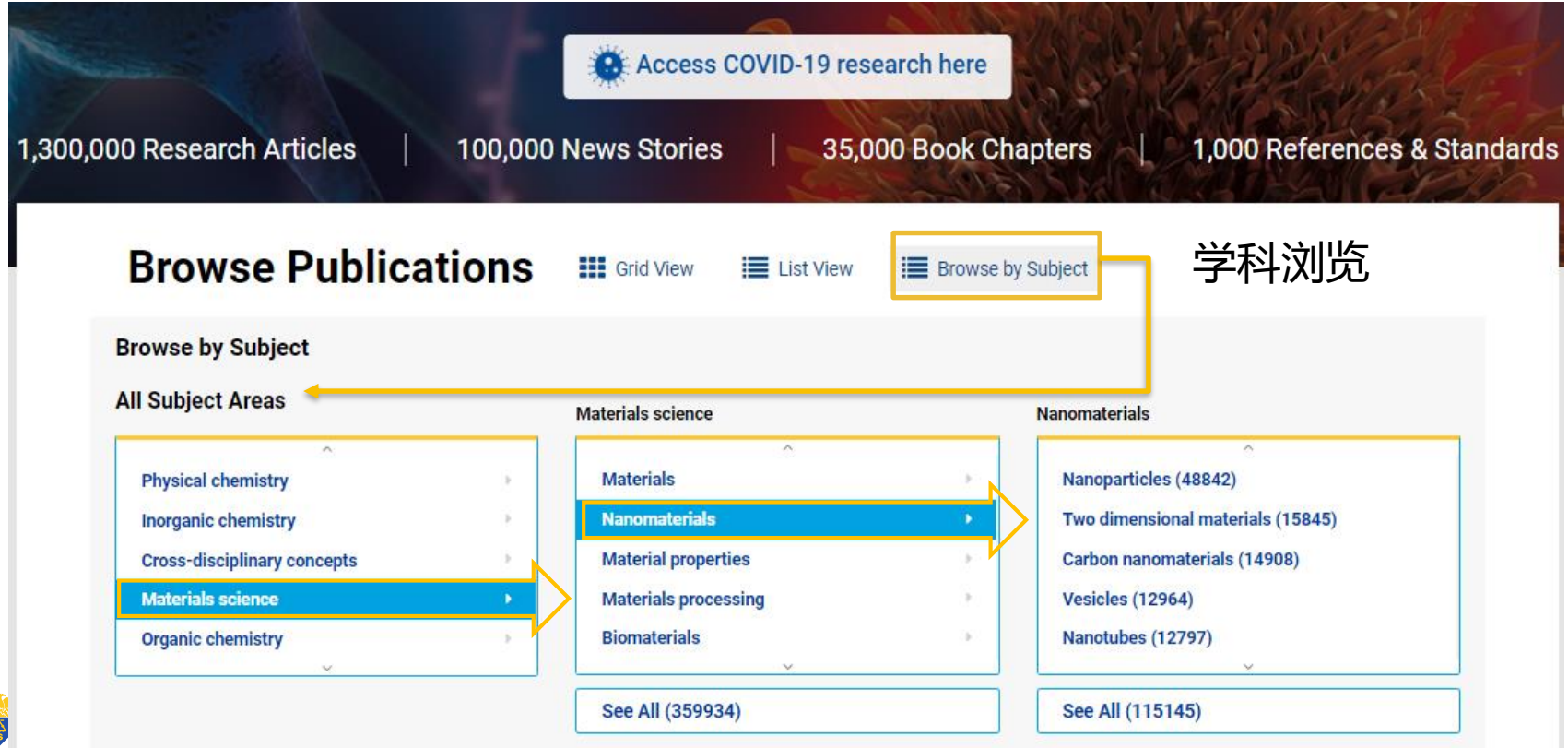
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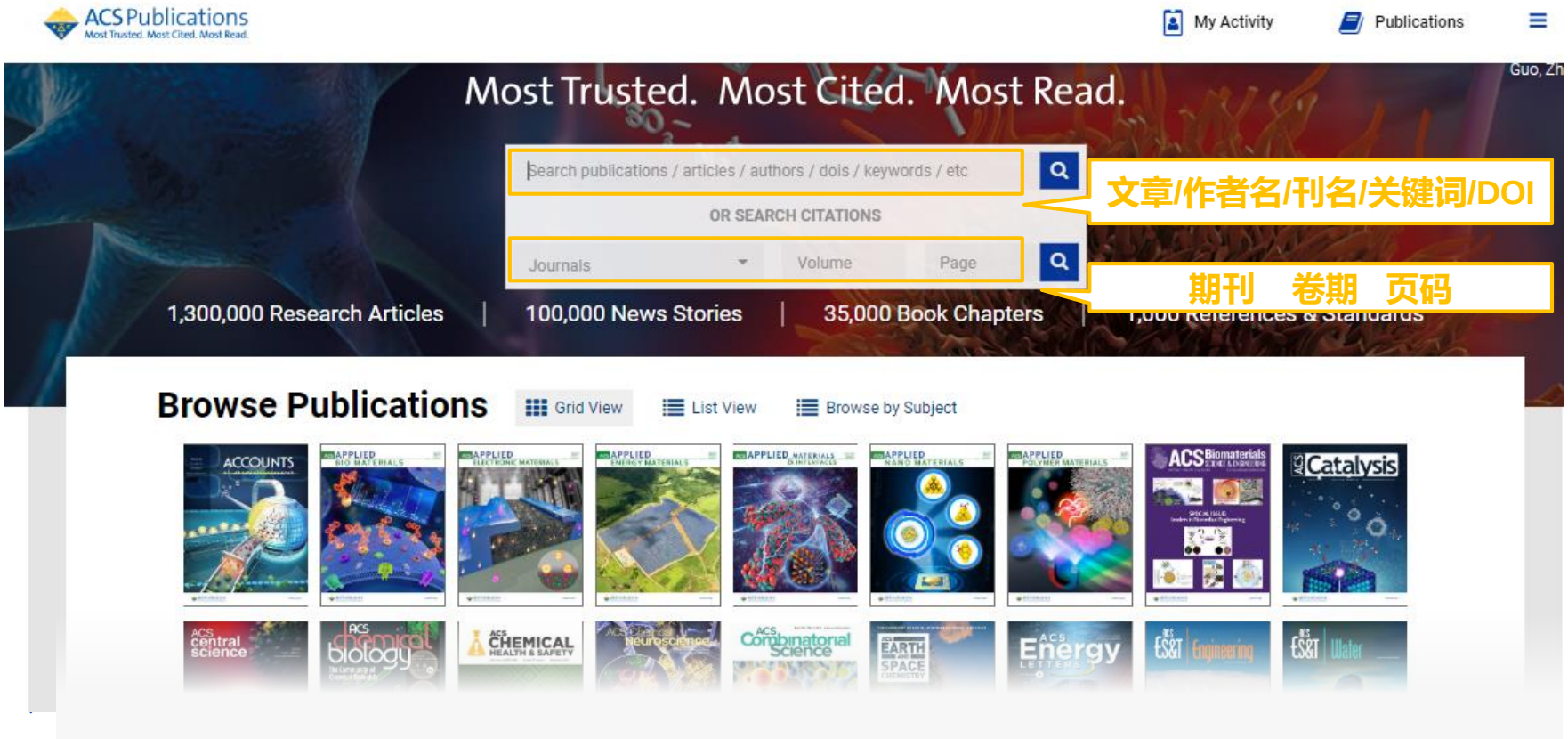
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检索式：　Catalyti* nanomaterials for energy

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NARROW RESULTS

RESULTS: 1 - 20 of 33570

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ARTICLE TYPE

PUBLICATION DATE

CONTRIBUTOR

Chen, Wei
Xia, Younan
Liu, Yang
Wang, Wei
Liu, Ping
MORE (15)

PUBLICATION

The Journal of Physical Chemistry C 5193

领域活跃的研究人员

CONTRIBUTOR

Chen, Wei	110
Xia, Younan	104
Liu, Yang	84
Wang, Wei	79
Liu, Ping	78

MORE (15)

领域主要出版物

PUBLICATION

The Journal of Physical Chemistry C	5193
ACS Applied Materials & Interfaces	4045
Langmuir	2469
Journal of the American Chemical Society	2368
Chemistry of Materials	2066

Chapter
Preface: Nanomaterials for Energy, A Look Backwards

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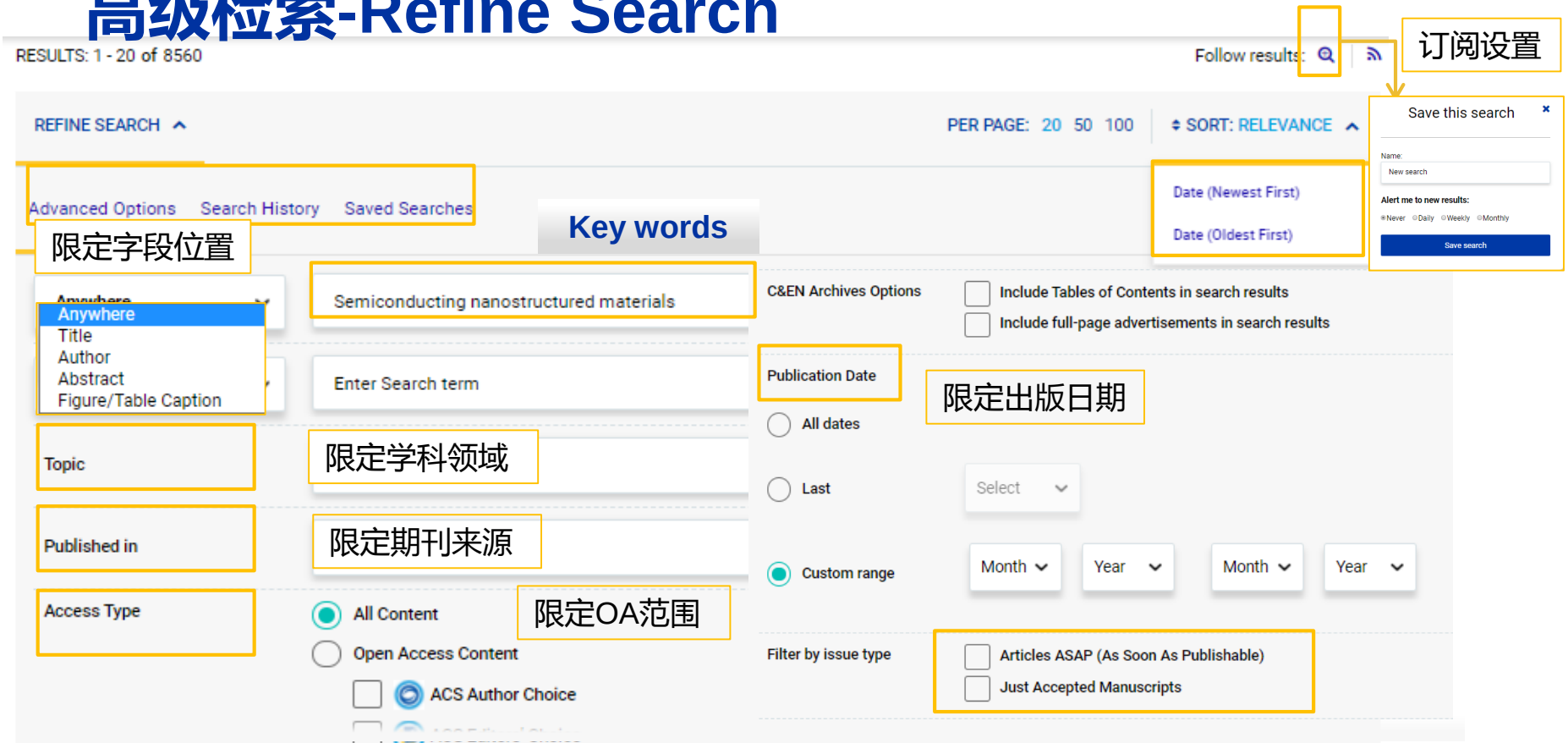

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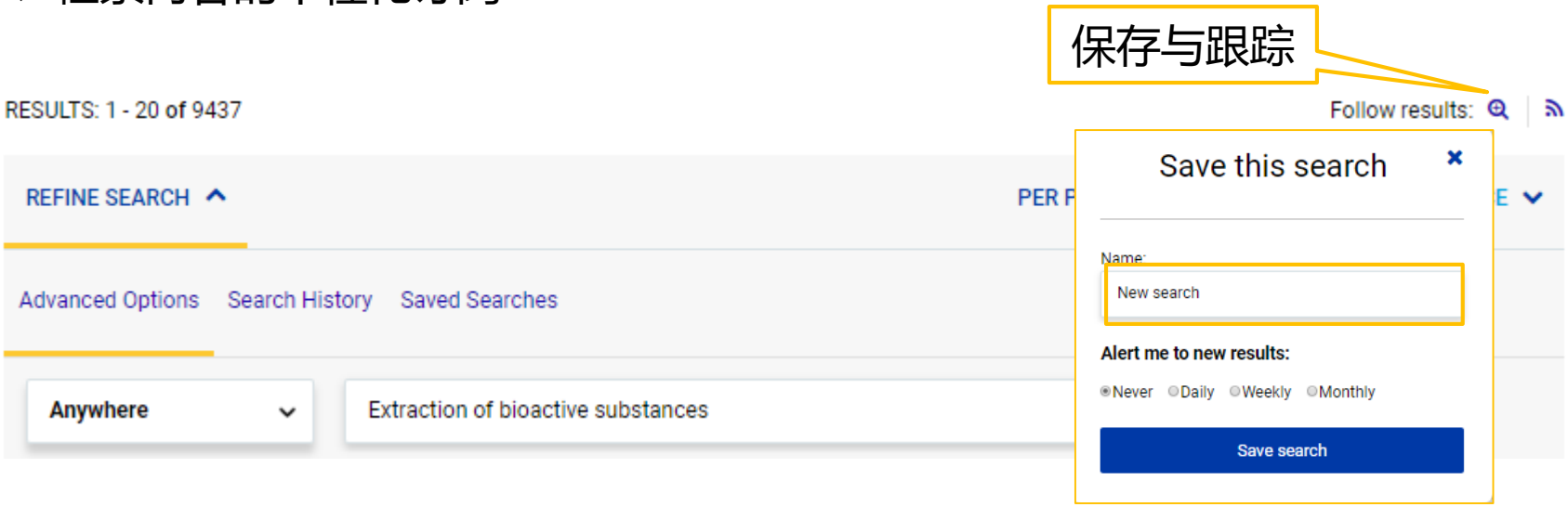

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Introduction to the International Symposium on Chemistry, Flavor, and Health Effects of

Daxiang Li, Yu Wang, Zhengzhu Zhang, Xiaochun Wan*, and Chi-Tang Ho*

Cite this: *J. Agric. Food Chem.* 2019, 67, 19, 5303−5305
Publication Date: February 25, 2019
https://doi.org/10.1021/acs.jafc.9b00719

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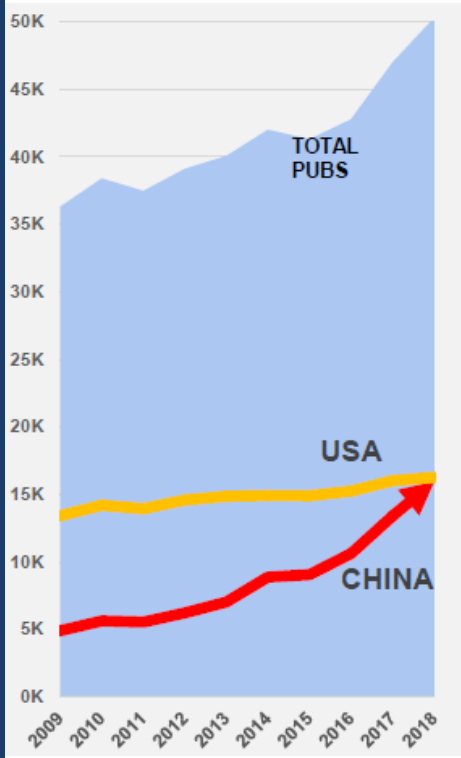
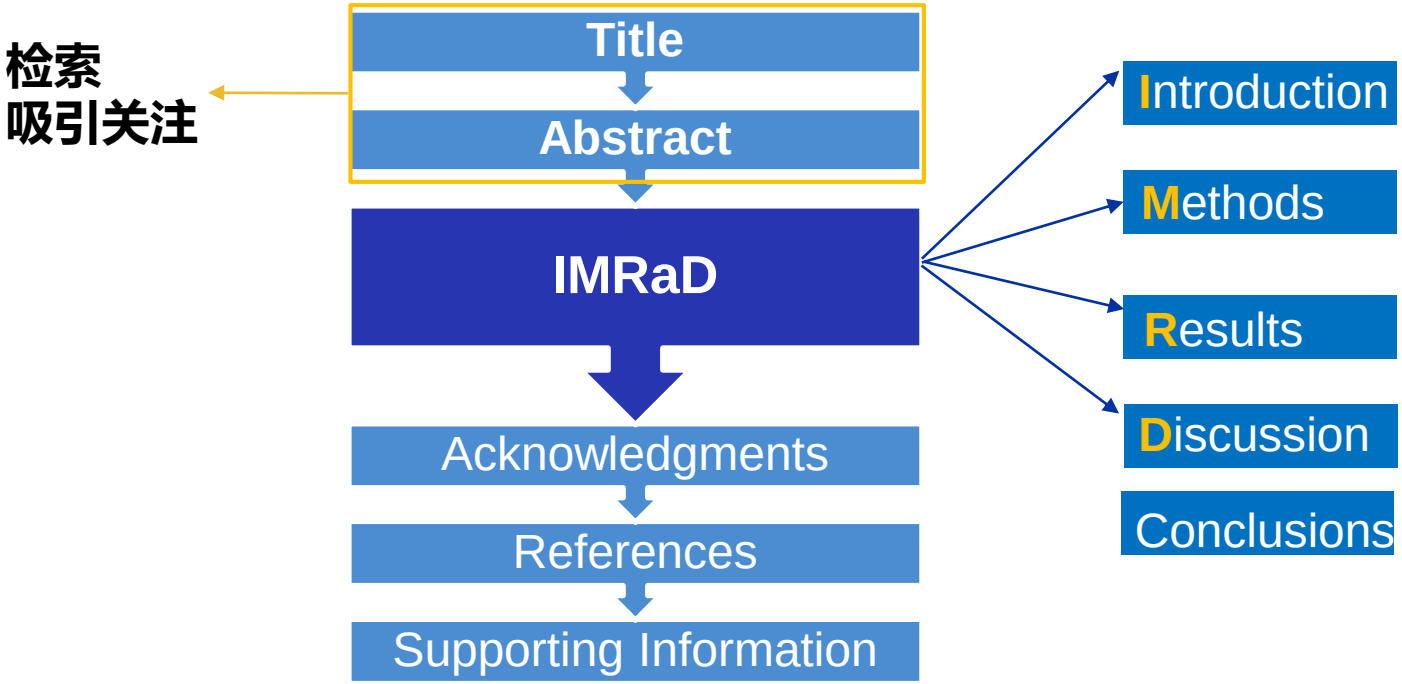


研究型文章结构
Research Article



Title 标题

作用

- 吸引编辑和读者
- 被搜索到，文献索引

内容

- 简短，引人注目，避免冗长
- 慎用形容词和无效的词 “first”,“novel”,“new”, “only”
- 没意义、不必要的词 “A Report on”,“A Study of”
- 避免提问式标题——要清楚自己完成了什么
- 少用缩写、符号、不常见的公式和可能不熟悉的首字母缩略词

来源：ACS Guide to Scholarly Communication

案例-Title

Scale-Up of the Synthesis of an XYZ Antagonist

✘

Scale-Up of a Novel Synthesis of a Triazolopyrimidine Derivative Involving a Catalytic Aromatic C−N Bond Formation

✔

Abstract 摘要

作用

- 帮助读者理解研究范围，是否继续读全文
- 文献索引

内容

- **重要性，主要研究背景**
- **强调研究方法**
- **主要研究发现和结论**
- 简洁明了，高度概括
- 避免引用参考文献和图表

来源：ACS Guide to Scholarly Communication

Abstract 摘要结构

Purpose & Problem statement
(keep the big-picture in mind)

Skin wound healing is a major health care issue. While electric stimulations have been known for decades to be effective for facilitating skin wound recovery, practical applications are still largely **limited** by the **clumsy electrical systems**.

Methodology& Major Findings
(highlight key discoveries)

Here, we report **an efficient electrical bandage for accelerated skin wound healing**. On the bandage, an alternating discrete electric field is generated by a wearable nanogenerator by converting mechanical displacement from skin movements into electricity. Rat studies **demonstrated** rapid closure of a full-thickness rectangular skin **wound within 3 days** as compared to 12 days of usual contraction-based healing processes in rodents.

Conclusion
(Summarize the significance)

From in vitro studies, the accelerated skin wound healing was attributed to **electric field-facilitated fibroblast migration, proliferation, and transdifferentiation**. This self-powered electric-dressing modality could lead **to a facile therapeutic strategy** for nonhealing skin wound treatment.

"Effective Wound Healing Enabled by

TOC 摘要图片

规范的TOC图片有哪些特点?

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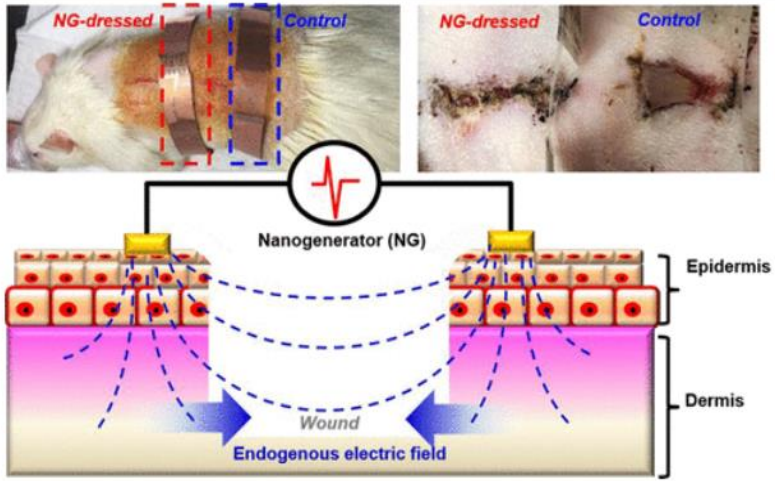
- 有简单独特的配色方案或插图
- 符合期刊推荐的尺寸
- 文字较少且以发表尺寸查看时所有文字清晰可见



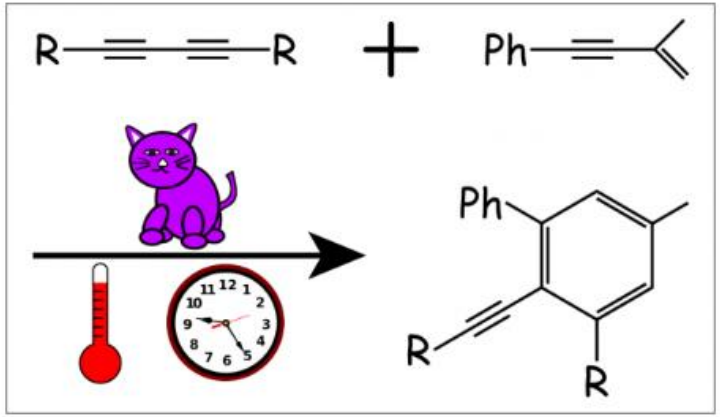
图片来源：“Effective Wound Healing Enabled by Discrete Alternative Electric Fields from Wearable Nanogenerators”ACS Nano, 2018, 12 (12), 12533–12540

来源：ACS Guide to Scholarly Communication

TOC 摘要图片

关于室内植物的大气丙酮吸收吗?

猫代表了一种催化剂?



所示的图形概要(TOC)没有足够的信息来让读者理解研究内容

英文科技写作词语规范

下面哪种表述更为准确，更符合科技写作的规范

A. more than 25 mg
B. in excess of 25 mg
C. not over 25 mg

A. The effects of compounds I–X were studied in rats and men.
B. The effects of compounds I–X were studied in rats and humans.

× A book is comprised of chapters.
√ A book comprises chapters.
√ A book is composed of chapters.

来源：ACS Guide to Scholarly Communication

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英文科技写作词语规范

避免在科技论文中使用缩略词

× wasn't
√ was not

× in the lab
√ in the laboratory

避免使用 "it is", "there are", "this is" 这类句式结构进行冗余的措辞表达：

× 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.

× This is a problem that is prevalent in the sciences.
√ This problem is prevalent in the sciences.

来源：ACS Guide to Scholarly Communication

投稿信可以写什么

- 适合所投期刊的理由
- 是否邀请稿
- 文章投稿历史
- 利益冲突
- 声明没有一稿多投
- 声明所有作者都同意投稿
- 可列举推荐的或不推荐的审稿人信息

Tips

- **最好在整篇文章写完之后再写**；
- **花费时间考虑**，写一封**有说服力的，吸引人的**Cover Letter；
- 与**合作者或同行分享，征求他们的建议。**

来源：ACS Guide to Scholarly Communication

案例-投稿信

Dear Editor,

Its my paper “XXX”. Please publish it as soon as possible.

Author Name

Dear **Professor *XXX*,** **正确的主编或副主编**

We wish to submit our manuscript "***TITLE***" for publication in "***ACS Journal***".

文章题目和目标期刊

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. **概括研究工作重点和亮点**

This work should be of interest to the broad audience that "ACS 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. **阐明研究影响力，紧扣期刊主题**

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- 期刊影响力
- 审稿周期
- ➢ 稿件准备

期刊关注领域

- 期刊的主题领域是否与自己的研究内容匹配

期刊影响力

- 是否得到到同行的关注，是否达到期刊的研究水平

审稿周期

- 期刊发表文章快否

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同行交流。与同事、实验伙伴、导师或合作者进行沟通。

参考文献。自己研究内容相关的文献期刊出处。

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研究工作达到最高水准和新颖性

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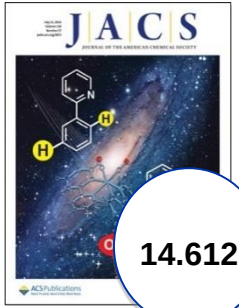

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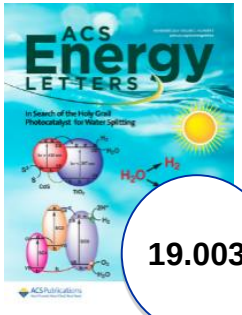

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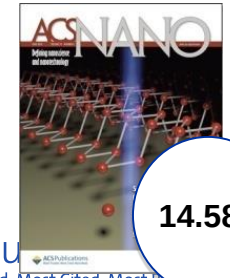

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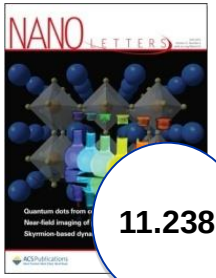

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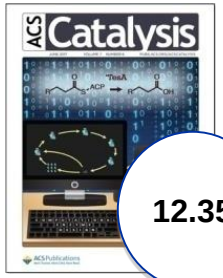

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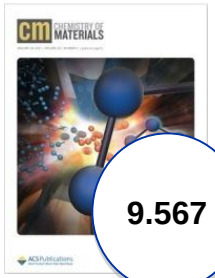

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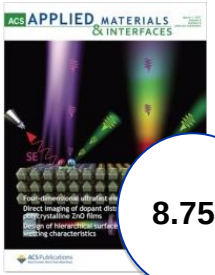

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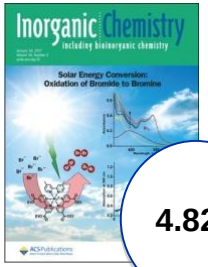

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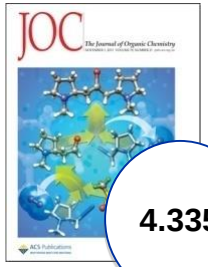

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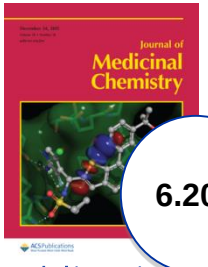

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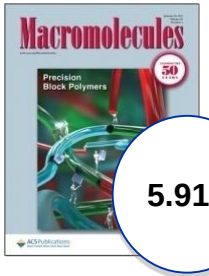

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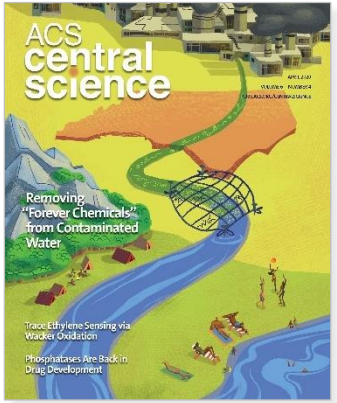

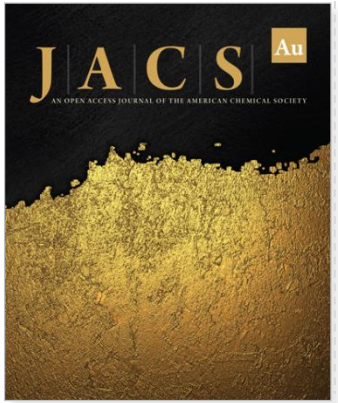

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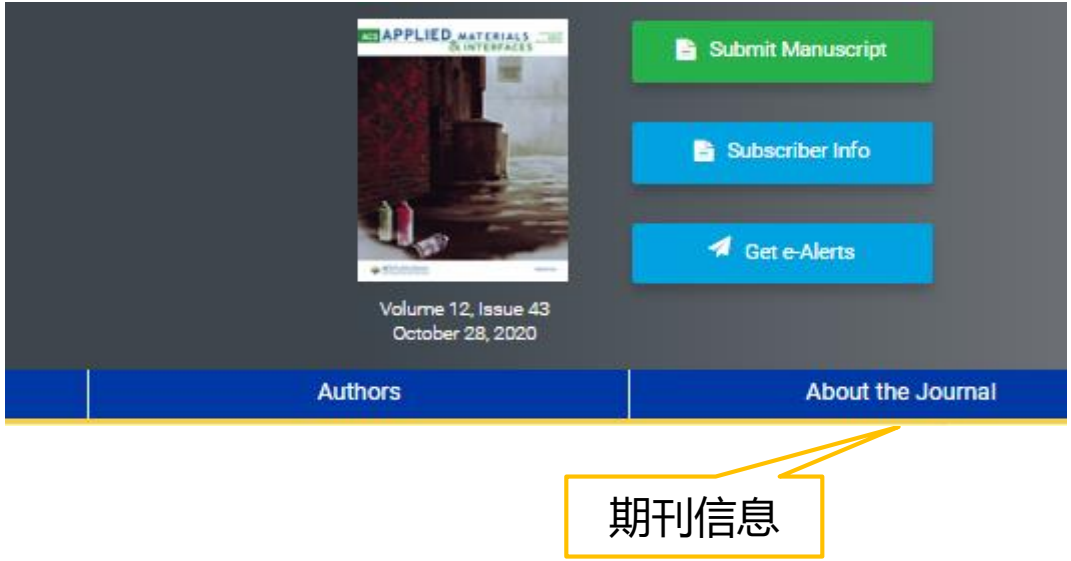

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reported in those articles. *ACS AMI* is also truly international, with the majority of published articles now coming from outside the United States, capturing the rapid growth in applied research around the globe. Details about the journal article types and submission requirements may be found in the Author Guidelines.

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Impact of TiO_2 and ZnO Nanoparticles on Soil Bacteria and the Enantioselective Transformation of Racemic-Metalaxyl in Agricultural Soil with *Lolium perenne*: A Wild Greenhouse Cultivation

Qing Zhou, Xu Zhang*, and Zhong Wu

Cite this: *J. Agric. Food Chem.* 2020, 68, 40, 11242−11252
Publication Date: September 16, 2020
https://doi.org/10.1021/acs.jafc.0c03[illegible]9

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Publication History

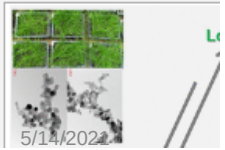
- **Received** 23 June 2020
- **Accepted** 16 September 2020
- **Revised** 16 September 2020
- **Published** online 16 September 2020
- **Published** in issue 7 October 2020

Supporting Info (1) »

SUBJECTS: Plants, Soils, Oxides, Bacteria, Metal oxide nanoparticles

Abstract

The effects of TiO_2 and ZnO nanoparticles on soil bacteria and enantioselective transformation of racemic-metalaxyl (*rac*-metalaxyl) in agricultural soil with or without *Lolium perenne* were investigated in an outdoor greenhouse. After a 70-day exposure to 2‰ ZnO, microbial biomass carbon decreased by 66% and bacterial community composition significantly changed. Meanwhile, ZnO decreased chlorophyll cumulation in *L. perenne* by 34%. ZnO also inhibited the enantioselective transformation of metalaxyl enantiomers and changed the enantiomer fraction of metalaxyl. TiO_2 showed similar effects but to a lesser extent.



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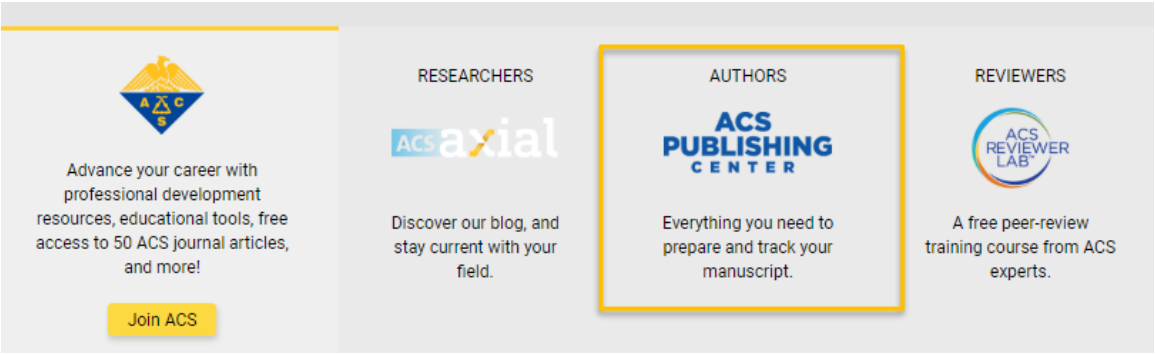

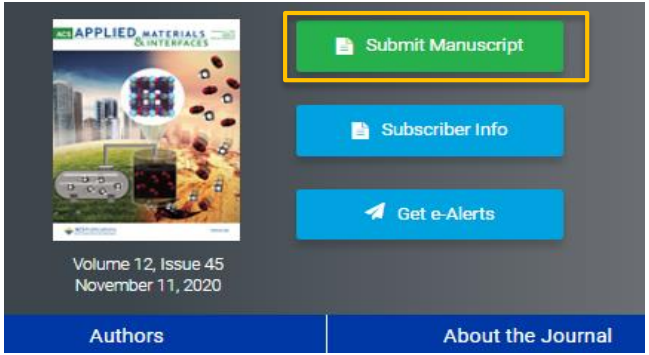

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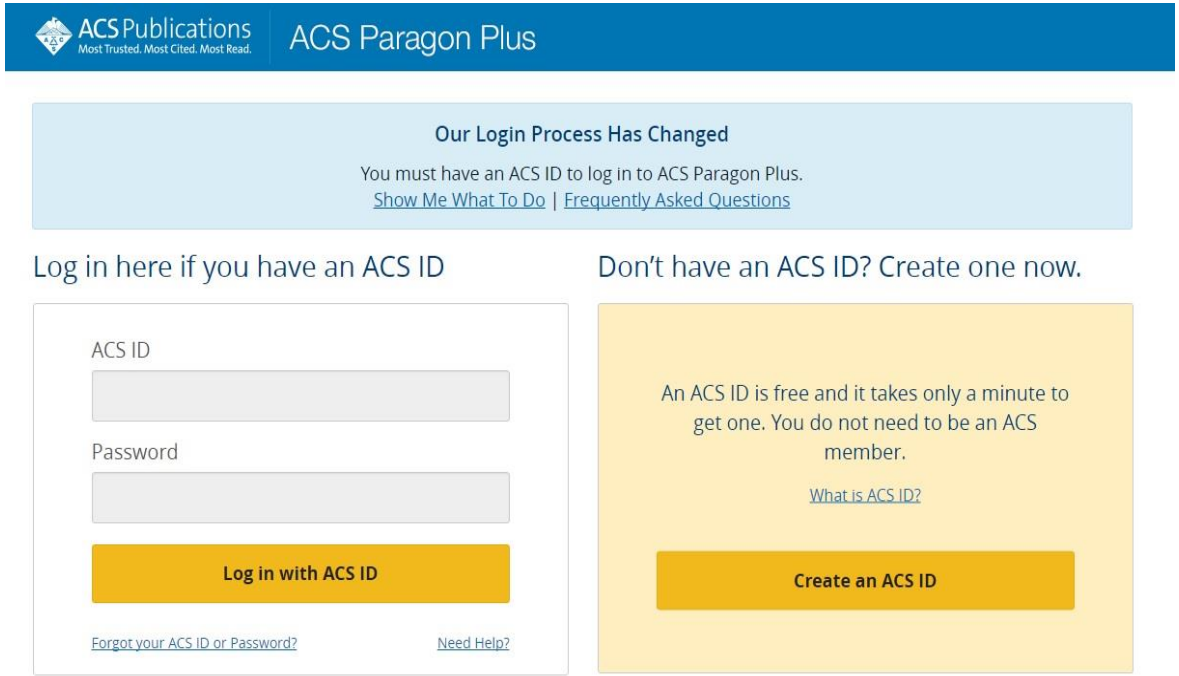

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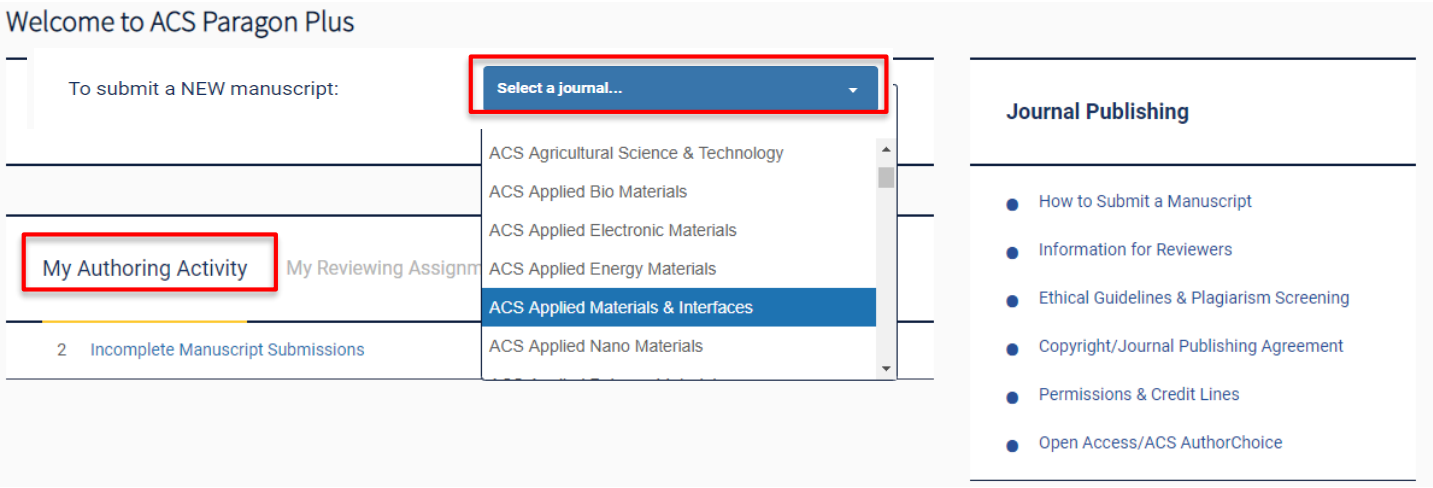

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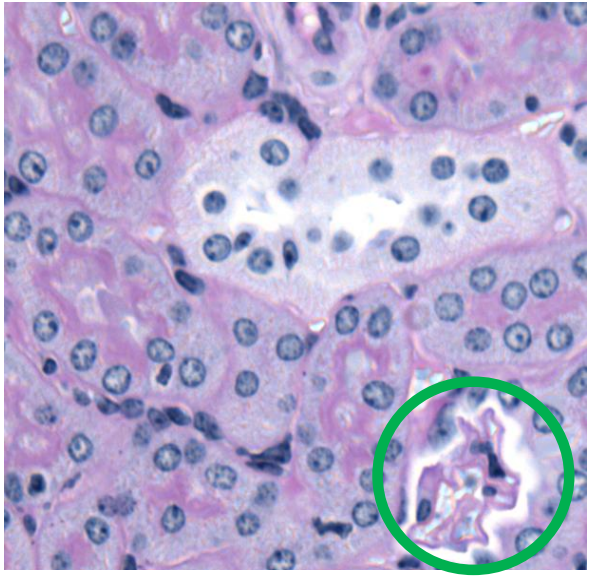

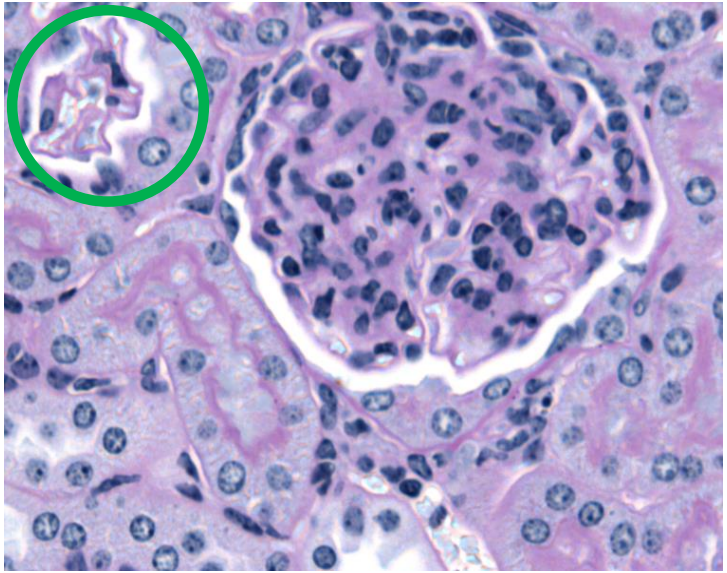

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