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2020/11

目录

- ACS资源及平台使用
- 英文科技论文写作要点
- ACS期刊投审流程与注意事项

ACS 美国化学学会简介

- 1876年 美国化学学会成立
- 世界上最大的科技学协会之一
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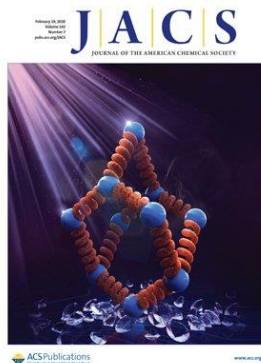
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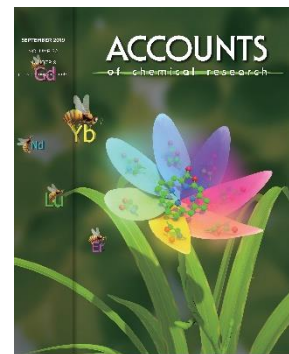
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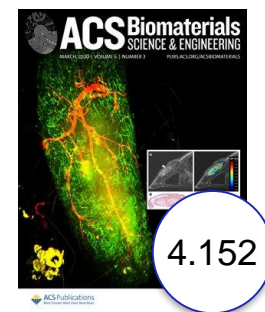
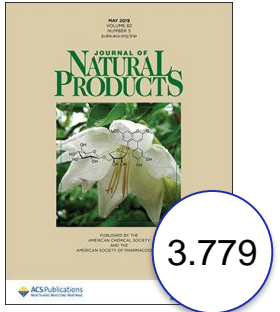
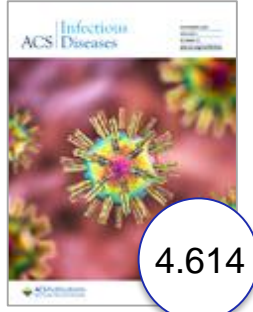
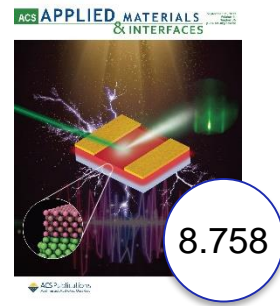
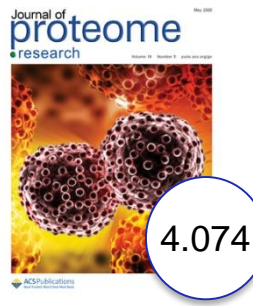


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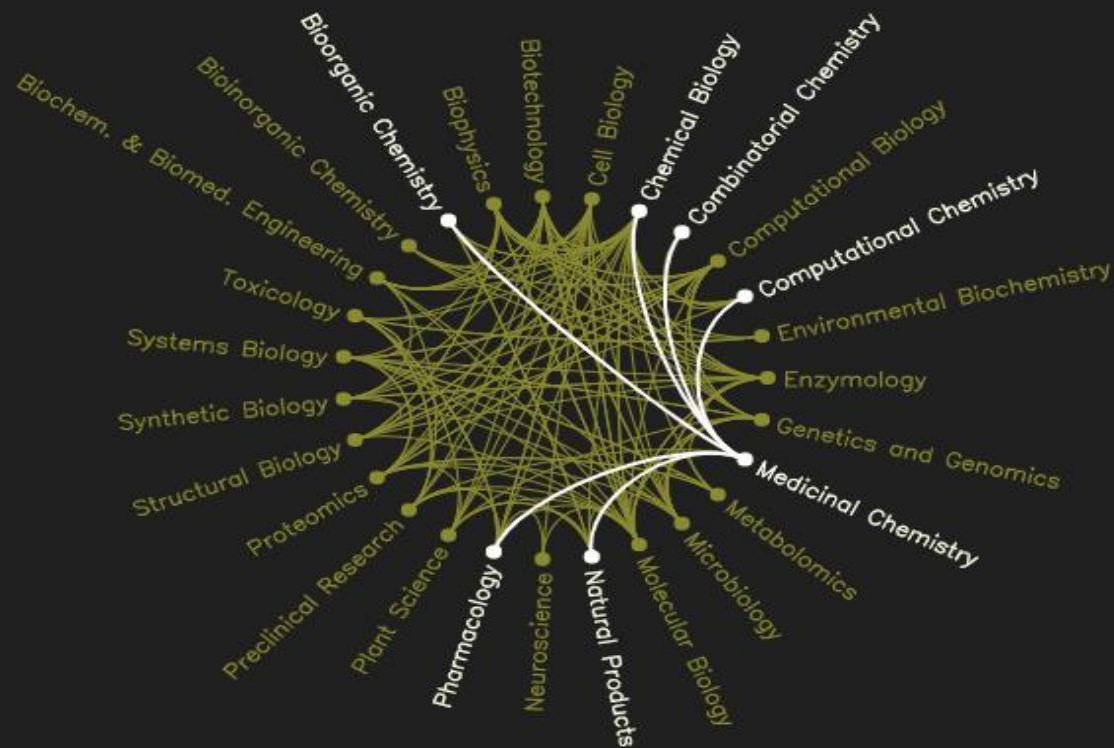


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- [美国化学会 \(ACS\) 电子期刊 \(2015-01-06\)](#)
- Anatomy & Physiology Online (2014-04-08)
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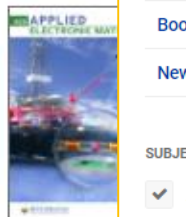
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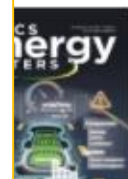
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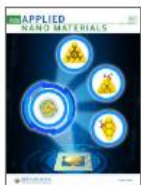
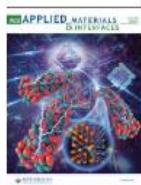
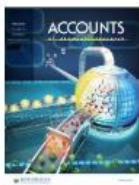
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Research Article	21160
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PUBLICATION DATE

CONTRIBUTOR

Tan, Weihong	136
Chen, Xiaoyuan	133
Liu, Zhuang	76
Liu, Bin	61
Supuran, Claudiu T	58
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Article

Applications of Two-Dimensional Nanomaterials in Breast Cancer Theranostics

Zahra Mohammadpour* and Keivan Majidzadeh-A*

6, 4, 1852-1873 (Review)

PDF

领域主要出版物

Journal of Medicinal Chemistry	2976
ACS Applied Materials & Interfaces	2831
ACS Nano	2009
Molecular Pharmaceutics	1810
Analytical Chemistry	1773

medicine for Cancer Therapy

James J. Moon*, and Betty Y. S. Kim*

(review) ACS Editors' Choice

二次筛选

文献类型

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全文页面

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Lithium Ion Battery Performance of Silicon Nanowires with Carbon Skin

Timothy D. Bogart[†], Daichi Oka[‡], Xiaotang Lu[†], Meng Gu[§], Chongmin Wang[§], and Brian A. Korgel^{†*}

View Author Information ▾

✓ Cite this: *ACS Nano* 2014, 8, 1, 915–922

Publication Date: December 6, 2013 ▾

<https://doi.org/10.1021/nn405710w>

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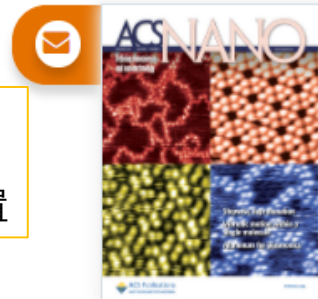
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全文页面

As the power demands of mobile technologies continue to increase, lithium (Li)-ion batteries are needed with greater power and energy density.(1) Silicon (Si) anodes offer an alternative to commercial graphite with much greater gravimetric and volumetric Li storage capacity ($\text{Li}_{15}\text{Si}_4$, 3579 mA h g^{-1} , 8334 A h L^{-1} vs LiC_6 , 372 mA h g^{-1} , 800 A h L^{-1}) and could improve the charge capacity of existing Li-ion batteries to enable an order of magnitude improvement if paired with a new cathode material such as sulfur.(4,5) The main limitations of Si in Li-ion batteries are the volume changes that occur during cycling and poor electrical conductivity.(6) Nanoscale Si anodes with small volume changes,(7-10) and Si nanowires are particularly compelling anode materials because they provide short Li diffusion paths due to their narrow diameter ($<100 \text{ nm}$) combined with long ($>1 \mu\text{m}$) continuous paths for electron transport down their length.(11-25)

Silicon nanowires can be produced by vapor-liquid-solid (VLS) growth on metal substrates to obtain intimate electrical contact with the current collector in the battery, but only with very low mass loadings of less than about $200 \mu\text{g}/\text{cm}^2$ that cannot provide enough current for most needs.(26-29) Mass loadings greater than $1 \text{ mg}/\text{cm}^2$, which are required for most applications, require relatively thick electrode layers. This is typically achieved by doctor-blading slurries with significant amounts of Si. Because of the synthetic limitations of VLS, many groups turn to commercially available Si powder for slurry-based anodes, but sufficient amounts of Si nanowires can be obtained using solution-based syntheses, like solution-liquid-solid (SLS) or supercritical fluid-liquid-solid (SFSL) methods.(6, 18, 25, 30-33) To achieve reasonable battery performance in the relatively thick slurry-based Si anodes, conductive carbon particles must be added (usually $\sim 10\%$ by weight) to provide sufficient electrical conductivity through the layer. This lowers the capacity of the anode, but more importantly, the carbon particles can segregate in the electrode layer during processing or as a result of mechanical stresses during cycling, leading to unreliable performance.(34) Better electrical contact can be achieved by encapsulating the Si

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Supporting Information

Movie (c_Si_1stLithiation_compress) showing *in situ* TEM imaging of a carbon-coated Si nanowire undergoing electrochemical lithiation. This material is available free of charge via the internet at <http://pubs.acs.org>.

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Solution-Grown Silicon Nanowires for Lithium-Ion Battery Anodes

ACS Nano

Silicon Nanowire Fabric as a Lithium Ion Battery Electrode Material

Journal of the American Chemical Society

Interconnected Silicon Hollow Nanospheres for Lithium-Ion Battery Anodes with Long Cycle Life

Nano Letters



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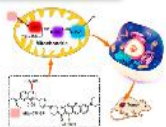
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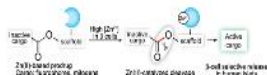
Employing an ICT-FRET Integration Platform for the Real-Time Tracking of SO₂ Metabolism in Cancer Cells and Tumor Models

Weijie Zhang, ... and Caixia Yin*
March 4, 2020



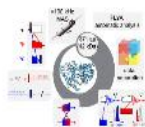
Characterization of Miharamycin Biosynthesis Reveals a Hybrid NRPS-PKS to Synthesize High-Carbon Sugar from a Complex Nucleoside

Fei Wang, ... and Gong-Li Tang*
March 13, 2020



Native Zinc Catalyzes Selective and Traceless Release of Small Molecules in β -Cells

Miseon Lee, ... and Amit Choudhary*
March 16, 2020



Automated Backbone NMR Resonance Assignment of Large Proteins Using Redundant Linking

... and Guido Pintacuda*
2020

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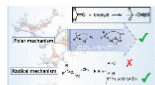
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Nanomaterials

- Nanoparticles (2823)
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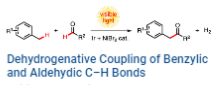
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The Grignard Reaction - Unraveling a Chemical Puzzle

Raphael Mathias Peltzer, ... and Michele Cascella*
January 17, 2020



Dehydrogenative Coupling of Benzylic and Aldehydic C-H Bonds

Tairin Kawasaki, ... and Masahiro Murakami*
February 3, 2020

Celebrating Women in Organic Chemistry

Melanie S. Sanford*, ... and Angela L. A. Puchlopek-Dermenci*
February 11, 2020



Total Synthesis of (-)-Batrachotoxin A: A Local-Desymmetrization Approach

Yinliang Guo, ... and Tuoping Luo*
February 9, 2020

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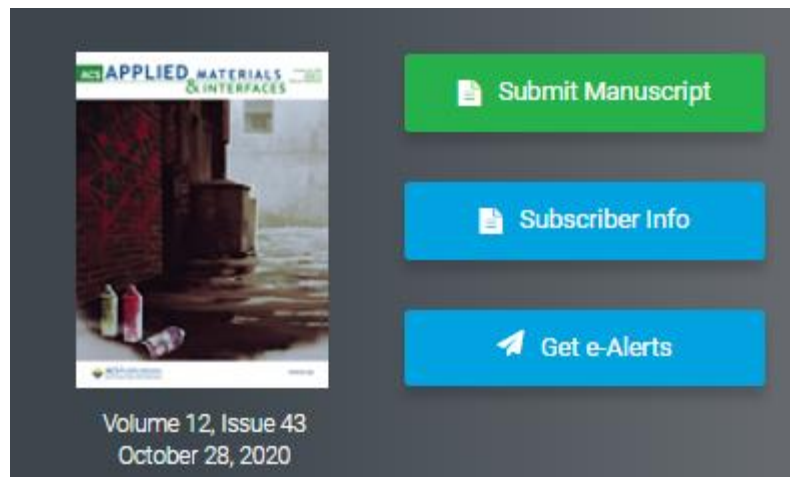
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Introduction to the International Symposium on Chemistry, Flavor, and Health Effects of Tea

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

✔ **Cite this:** *J. Agric. Food Chem.* 2019, 67, 19, 5303–5305
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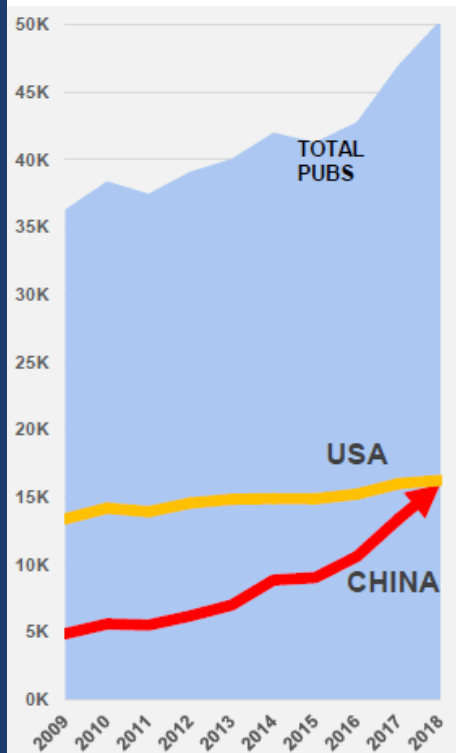
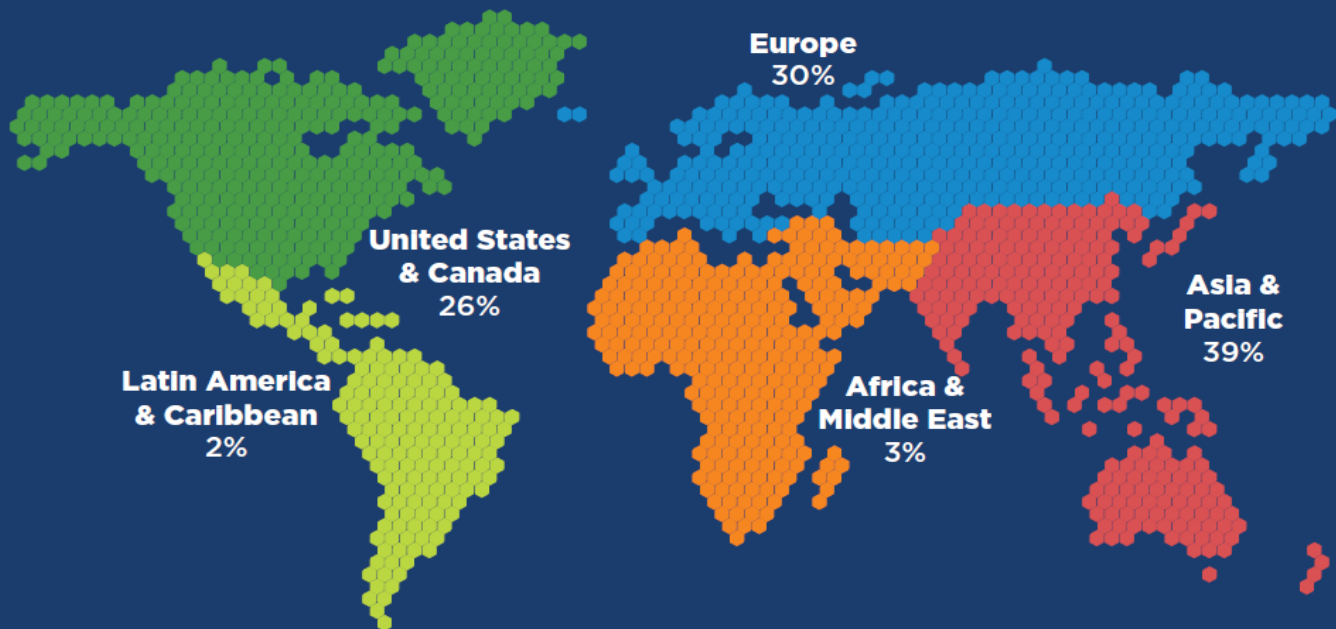
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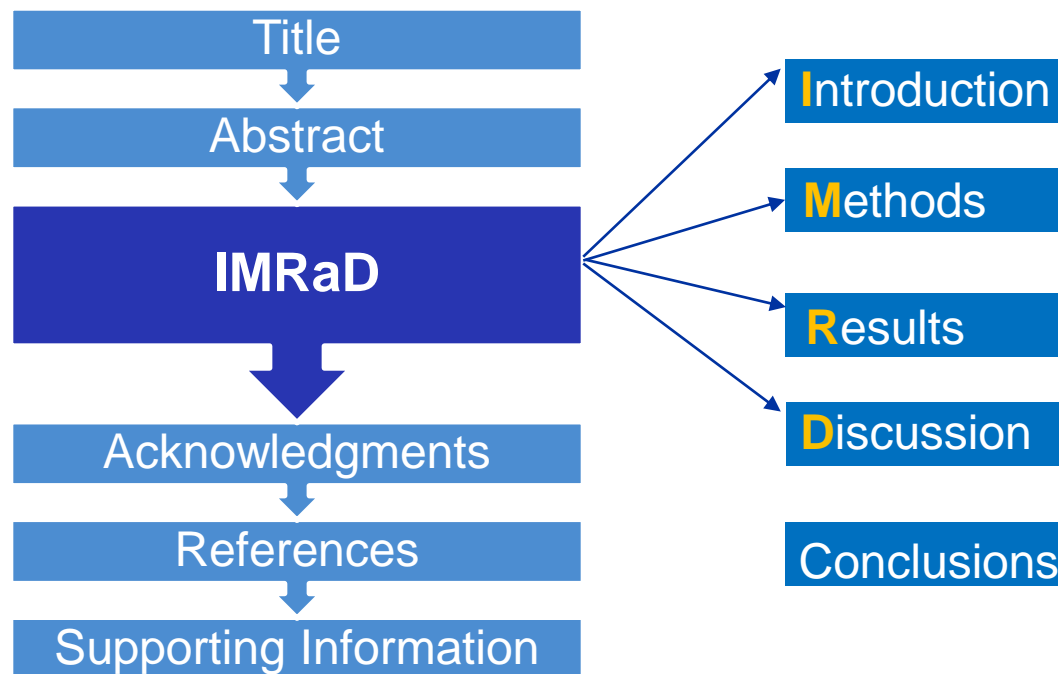
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Research Article



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- 吸引编辑和读者
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内容

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- 没意义、不必要的词 “A Report on”, “A Study of”
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- 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

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

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内容

- **重要性, 研究目的**
- **强调研究方法**
- **主要研究发现和结论**
- 简洁明了, 高度概括
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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.

TOC 摘要图片

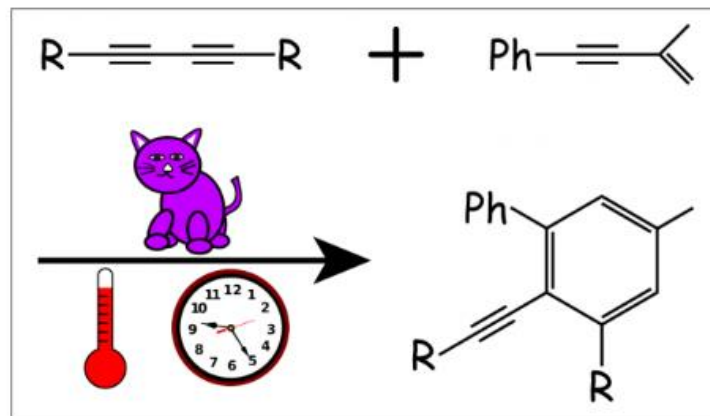
规范的TOC图片有哪些特点?

- 告诉读者文章的主旨
- 有简单独特的配色方案
- 符合期刊尺寸
- 文字较少且清晰可见



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

TOC 摘要图片



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

Introduction 引言

- 对研究背景的描述;
- 指出文章最核心和关注内容;
- 交代背景, 引用重要和必要的参考文献;
- 强调重要的发现

Materials and Methods 材料和方法

- **能够重复出实验，实验方法和步骤足够详细；**
- 引用前人的方法请注意引用；
- 详细描述测量时的条件(如温度、压力)，包括设备的制造商和型号；
- 理论研究，提供足够的数学细节，提供计算软件名称、供应商和版本；
- 安全风险问题，强调任何与研究相关的可能存在的重大危险或风险。

Results & Discussion 结果与amp;讨论

结果:

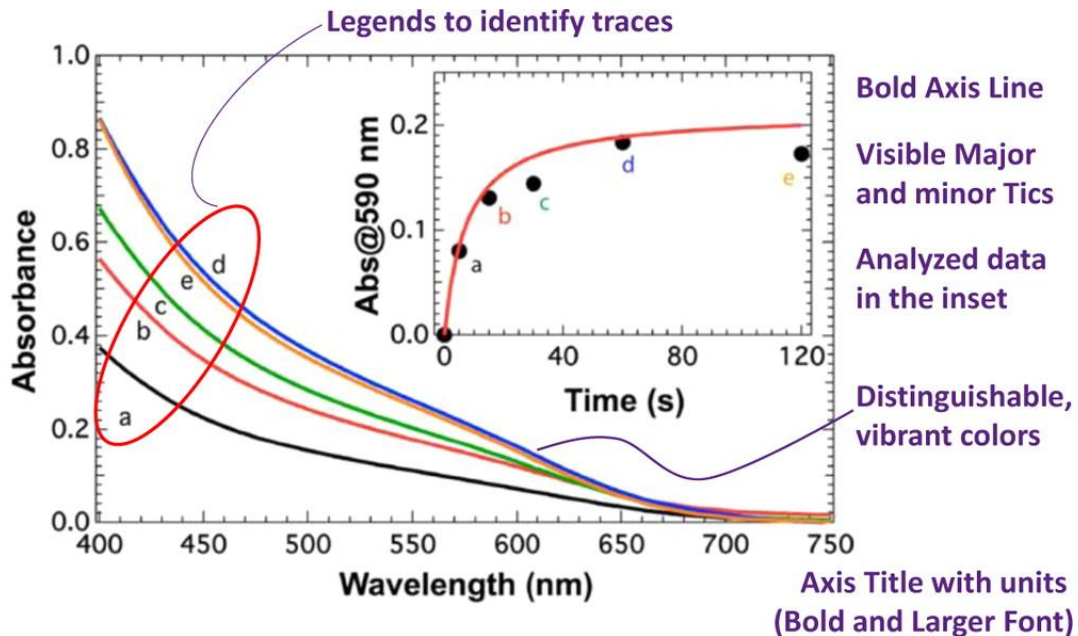
- 用图片和图表、文字形式呈现;
- 以逻辑顺序描述, 从一组结果到下一组结果应该有连续性;
- 冗长的数据可以放在SI中。

讨论:

- 解释所有数据的意义, 是否解决了问题, 对研究有无推动作用;
- 如使用先前发表的理论分析来解释结果, 请注意引用;
- 对研究中出现的新发现进行讨论;
- 需讨论研究结果的局限性和差异性。

Graphics 图像

- 高分辨率;
- 数据突出, 清晰;
- 轴刻度标注;
- 单位;
- 图像尺寸要保证文本清晰;
- 遵循期刊官方文件格式要求



Conclusions 结论

- 指出理论意义和实际应用价值;
- 支撑引言部分;
- 不要重复摘要中的陈述;
- 结果好坏作出讨论, 指出局限性, 讨论未来研究计划和要解决的问题。



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.

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.

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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**

Dear **Professor XXX**,

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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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- 关注研究领域
- 期刊影响力
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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

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- 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

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研究工作达到最高水准和新颖性



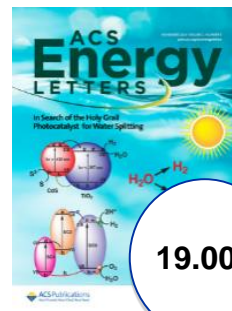
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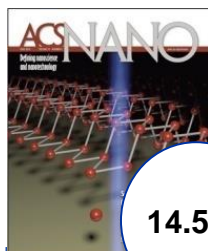
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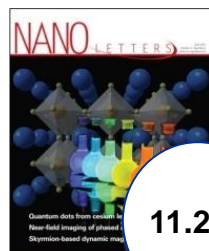
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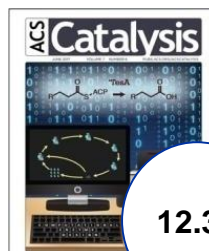
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14.588



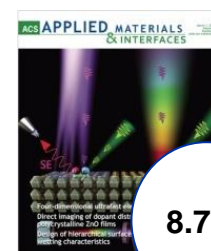
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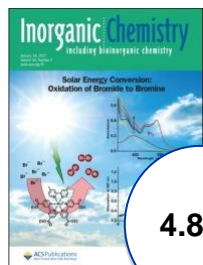
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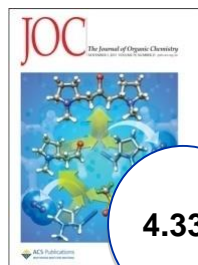
8.758

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4.825



4.335



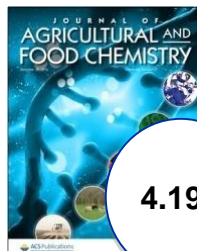
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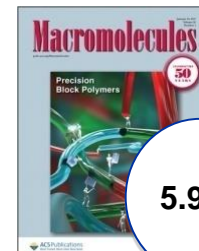
6.205



4.192



7.864



5.918

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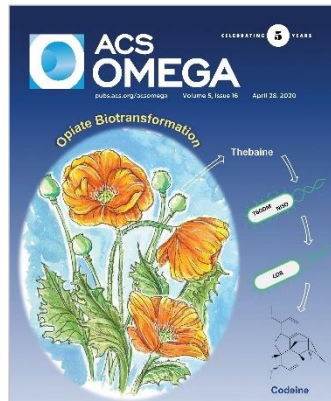
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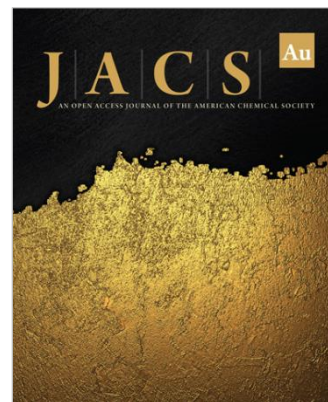
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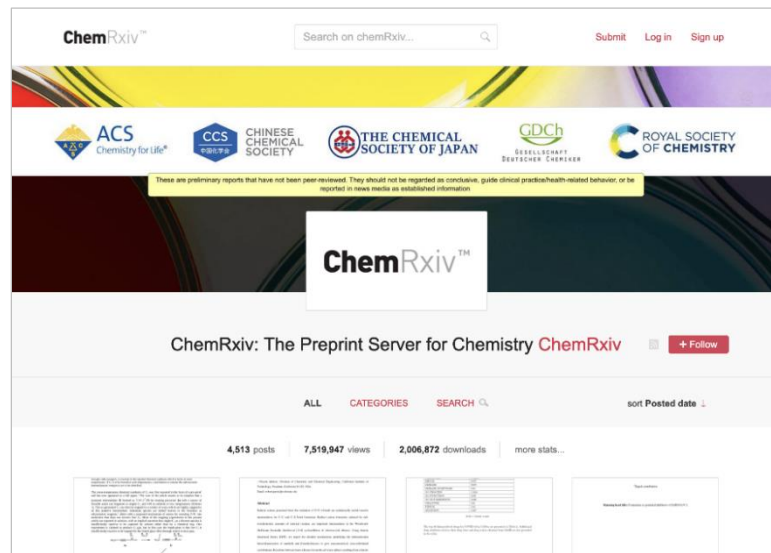
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Impact of TiO₂ and ZnO Nanoparticles on Soil Bacteria and the Enantioselective Transformation of Racemic-Metalaxyl in Agricultural Soil with *Lolium perenne*: A Wild Greenhouse Cultivation

Qing Zhou, Xu Zhang*, and Zhong Wu

✓ Cite this: *J. Agric. Food Chem.* 2020, 68, Article Views | Altmetric | Citations
40, 11242–11252

Publication Date: September 16, 2020 ^

<https://doi.org/10.1021/acs.jafc.0c02799>

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- Accepted 16 September 2020
- Revised 16 September 2020
- Published online 16 September 2020
- Published in issue 7 October 2020

SI Supporting Info (1) »

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

Abstract

The effects of TiO₂ 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. TiO₂ showed similar effects but to a lesser extent.



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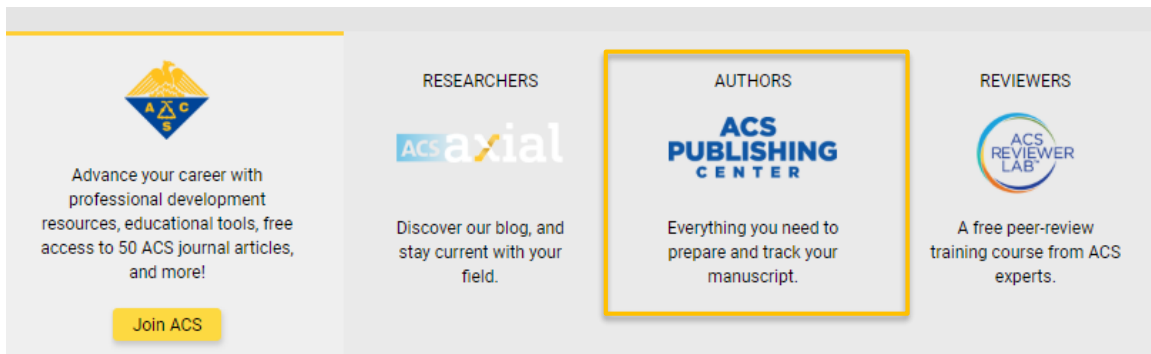
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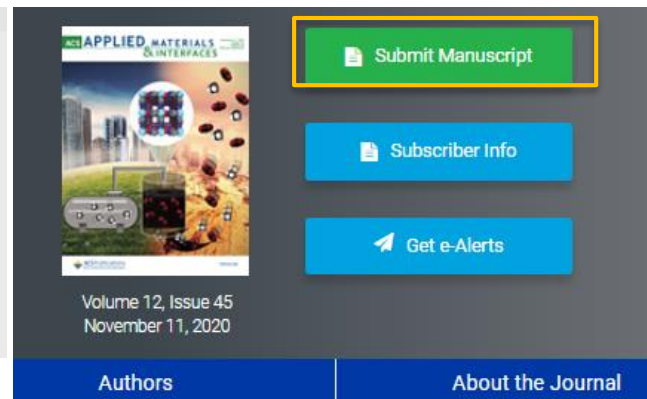
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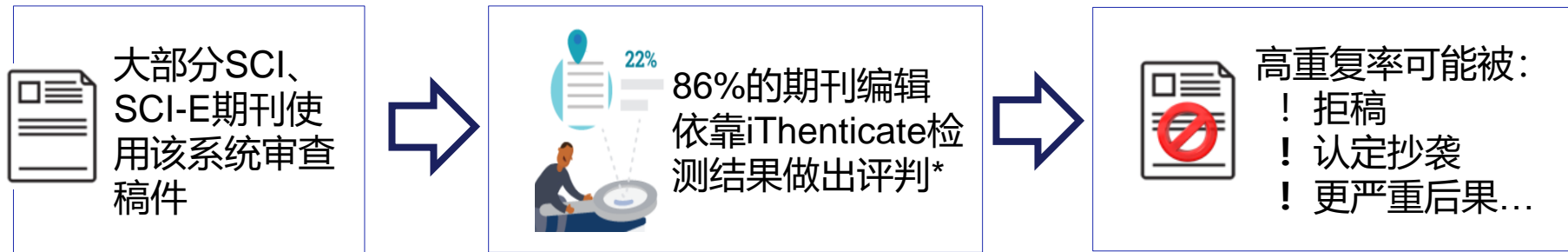
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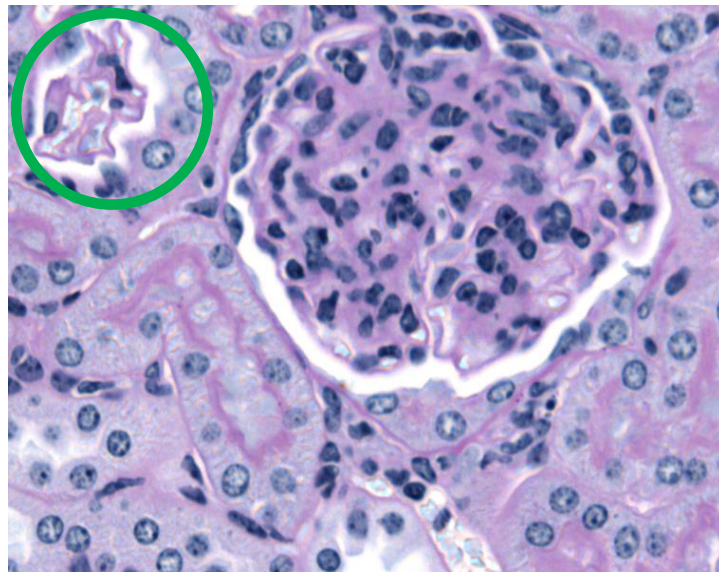
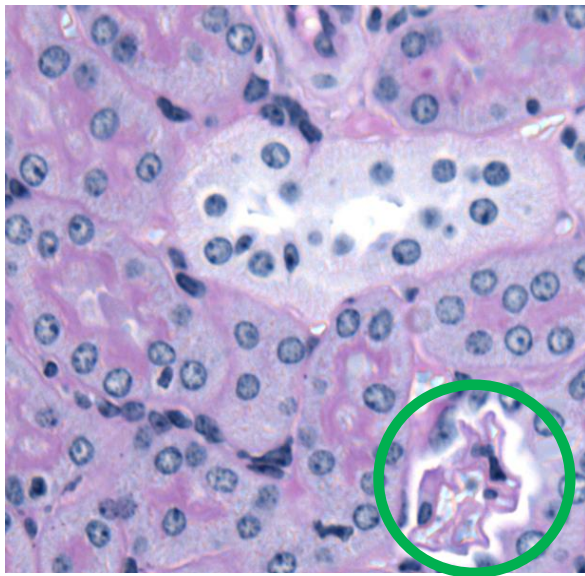
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