



ACS Publications

Most Trusted. Most Cited. Most Read.

ACS Publication内容总览

From American Chemical Society (ACS)

CALIS 第21届引进数据库培训周

王子豪

ACS数据库培训师

iGroup China

2023/05/16



参加ACS数据库培训答题活动赢奖品

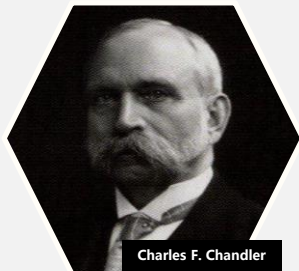
- 我们在本次培训的最后设置了ACS数据库答题抽奖环节
- 最先回答对的前三位老师可以获得由ACS数据库赞助的书包一个



目录

- ACS数据库历史沿革以及影响
- ACS数据库内容以及服务简介
- 答题抽奖小活动

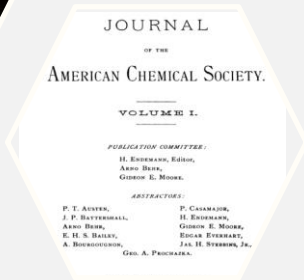
美国化学会成立于19世纪后期



Charles F. Chandler

于1876年
成立

于1879年发行
ACS旗舰刊
JACS的第一卷
第一期

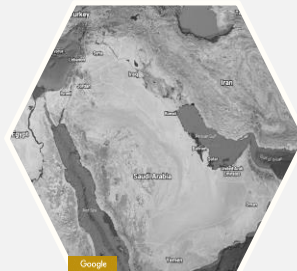


J. Am. Chem. Soc.
1879 1(1)
DOI:10.1021/ja02143a700



美国化学会于
1937年被罗斯
福总统签署进
联邦宪章

1941年将总
部迁至华盛顿
特区



于1993年在
沙特阿拉伯成
立了第一个国
际分会

美国化学学会已经成长为全世界最大的科技学协会之一



MORE THAN **150K** MEMBERS
IN **140+** COUNTRIES

ACS的愿景：

通过化学的变革力量改善所有人的生活

ACS的任务：

推动更广泛的化学从业者造福地球及其所有人

ACS数据库(ACS Publications)

至信、博引、众览

- ACS数据库旗下至今已经发表了**超过130万篇**文章
- 根据《期刊引用报告》TMACS数据库在2021年总引用量**超过460万次**，较2020年增长超过10%
- 其中**超过2/3的期刊**达到了历史最高影响因子



ACS数据库期刊

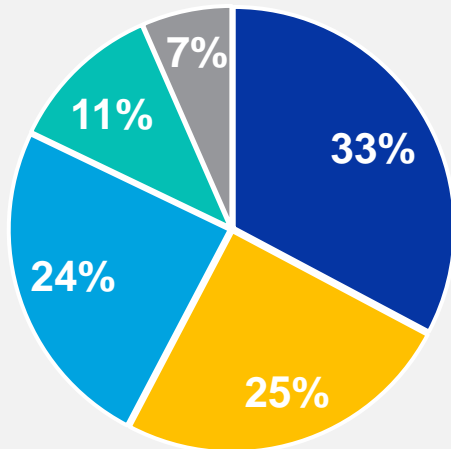
- ACS数据库包括**超过65本**专业学术期刊
- 覆盖了**绝大部分**的化学领域:
 - 核心化学
 - 农业、食品和环境科学
 - 生物技术和制药
 - 电子学
 - 能源与化工
 - 材料科学与工程等



ACS数据库期刊

■ ACS数据库也非常重视支持多学科发展

- 核心化学
- 材料以及能源科学
- 化工以及环境科学
- 生物、药物以及农业化学
- 其他



2020-2022年ACS数据库发表文章学科分布示意图

1870

1875

1879

1880

1885



16.383
Impact
Factor

1905

JOURNAL

OF THE

AMERICAN CHEMICAL SOCIETY.

VOLUME I.

PUBLICATION COMMITTEE:

H. ENDEMANN, Editor,
ARNO BEHR,
GIDEON E. MOORE.

ABSTRACTORS:

P. T. AUSTEN,
J. P. BATTERSHALL,
ARNO BEHR,
E. H. S. BAILEY,
A. BOURGOUNGON,

P. CASAMAJOR,
H. ENDEMANN,
GIDEON E. MOORE,
EDGAR EVERHART,
JAS. H. STEBBINS, JR.,
GEO. A. PROCHAZKA.

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ACS数据库提供高质量学术期刊

■ 2022年综合化学高光期刊包括

美国化学会志 (JACS) 是 ACS 的旗舰期刊，仍然是化学领域被引用次数最多的期刊，总引用次数为 631,578 次，期刊影响因子™ 为 16.383。

化学评论 仍然是化学、多学科类别中影响力最高的期刊，期刊影响因子™ 为 72.087。

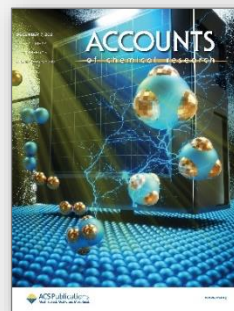
化学研究评述 获得了 24.466 的 Journal Impact Factor™。



2021 Impact Factor
16.383



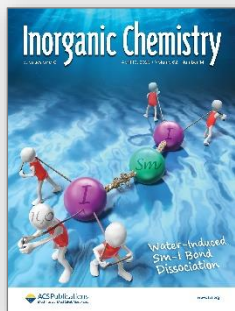
2021 Impact Factor
72.087



2021 Impact Factor
24.466

ACS数据库提供高质量学术期刊

■ 2022年核心化学、生物药物化学高光期刊包括



2021 Impact Factor
5.463



2021 Impact Factor
8.008



2021 Impact Factor
8.039

无机化学是无机化学领域的头部刊，保持了无机化学领域被引用次数最多的期刊，总引用次数为110,623次，**期刊影响因子™**为**5.436**。

分析化学仍然是分析化学类别中引用量最高的期刊，**期刊影响因子™**为**8.008**。

药物化学获得了**8.039**的**Journal Impact Factor™**，并保持了药物化学领域的引用量第一名。

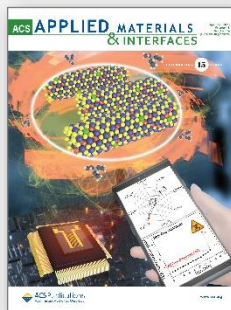
ACS数据库提供高质量学术期刊

■ 2022年材料、能源以及环境科学高光期刊包括

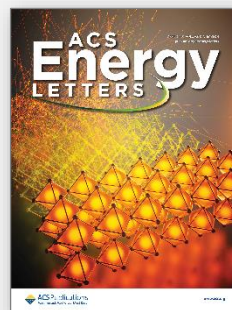
ACS应用材料与界面在跨学科材料以及纳米科学领域被引用量分别位居第三和第二，总引用次数为345,640次，期刊影响因子™为10.383。

ACS能源快报仍然是电化学以及能源领域学科类别中影响力最高的期刊之一，期刊影响因子™为23.991。

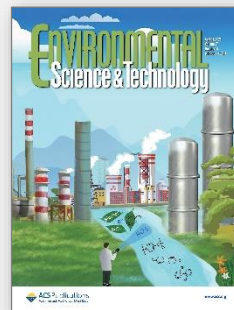
环境科学与技术获得了11.357的Journal Impact Factor™，作为老牌环境科学的期刊，在环境科学以及环境工程领域引用量均保持领先。



2021 Impact Factor
10.383



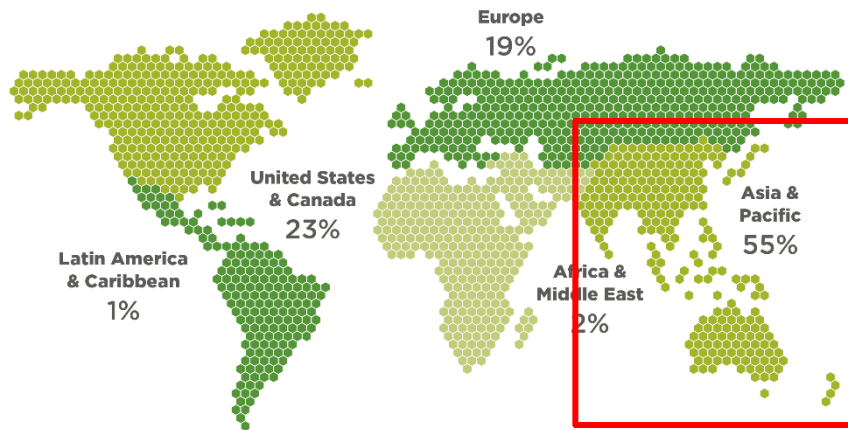
2021 Impact Factor
23.991



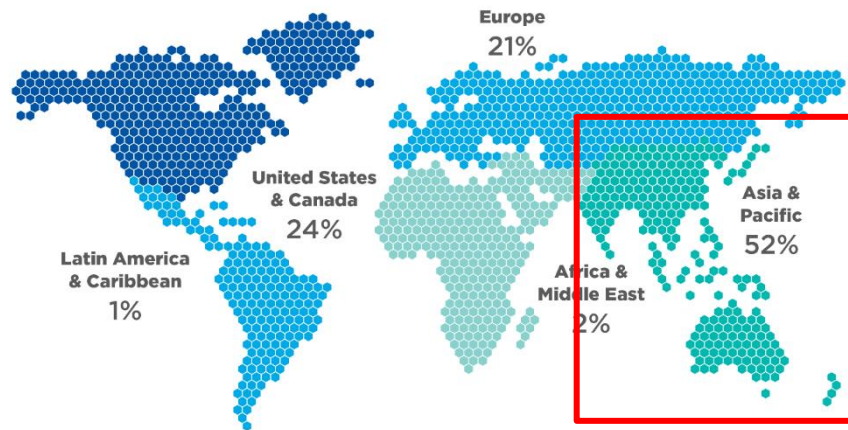
2021 Impact Factor
11.357

ACS数据库期刊受到全球科研工作者青睐

ACS Full Text Downloads by Region in 2021



ACS Published Articles by Author Origins in 2021



2021年ACS数据库文章下载(左)以及作者来源(右)分布示意图

ACS eBooks

- ACS电子书包括 1,600 本书，超过 37,000 个章节
- 涵盖几乎所有受化学影响的学科，包括政策、历史和教育
- 由各个领域具有影响力的科学家撰写，其中包括 41 位诺贝尔奖获得者

37,000

CHAPTERS

1,600

BOOKS

41

NOBEL LAUREATES

ACS电子书介绍



- ACS电子书均经过正规的同行评议流程审核
- 每年平均更新30-35本
- 现在主要分为三个系列：

药物化学评论

New!

ACS专题研讨会系列

化学进展

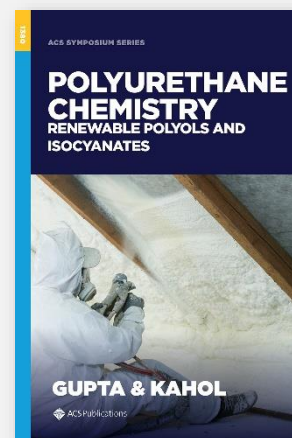
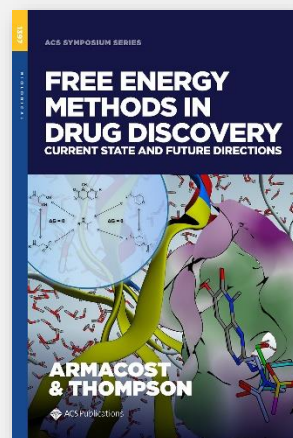
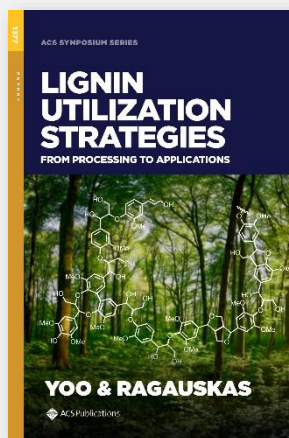
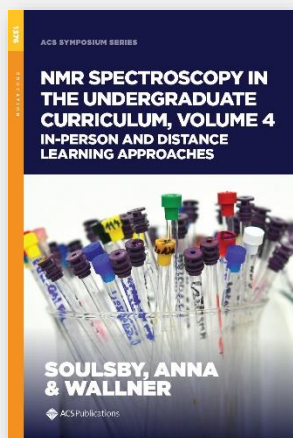
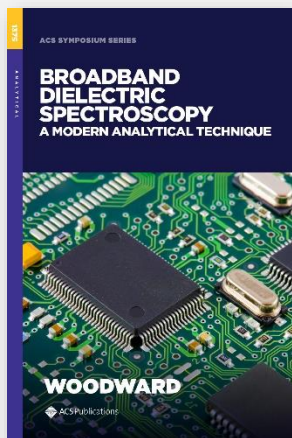
2022 MEDICINAL CHEMISTRY REVIEWS

VOLUME 57

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Advances
in Chemistry

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ACS IN FOCUS

- 加速读者对各个科学领域的新主题和核心技术的基本理解
- 每本书只需花费4-6小时阅读
- 结合了多媒体内容，如更多图片以及视频等
- 同时包含了专业技术以及非专业技术领域



ACS In Focus 系列介绍

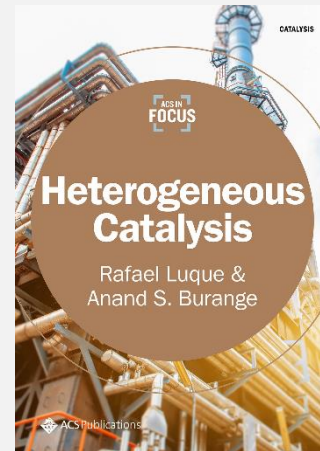
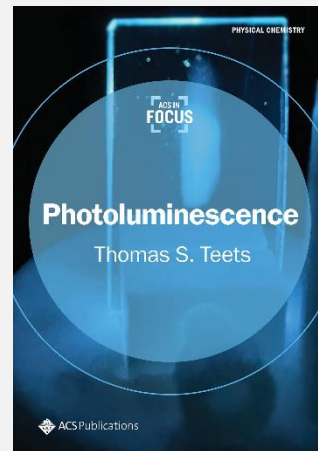
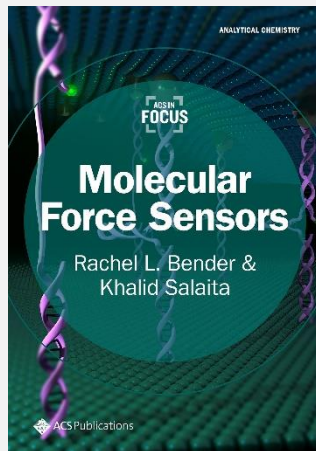
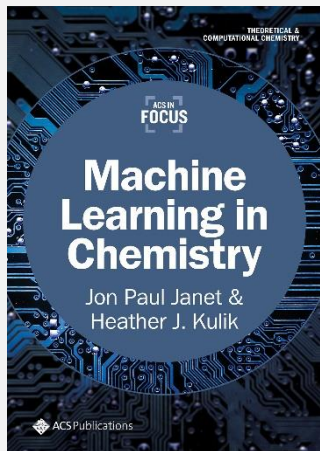
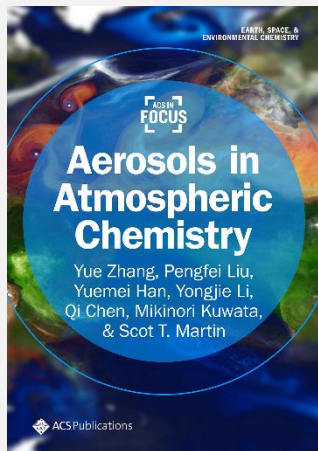


- In Focus 系列电子书适合从**高年级本科生到研究生**甚至**青年学者**用于了解当今**化学界的热点领域**。
- 包含了多种**功能以及特征**:
 - 简介：保持必要的最少字数，以确保每本入门书都能在**4-8小时内阅读完毕**
 - 多媒体：通过**分子模型、视频**等解释复杂概念
 - 内幕问答：与**领域内幕人士**的访谈（和文字记录）
 - 检查你的理解：**8-10个自测问题**用以检查读者的理解，通过视频和文字提供答案
 - 之后阅读这些：**作者推荐的内容**，例如评论文章，在章节或入门之后阅读
 - 生活中的一天：展示**如何使用工具**或提供实用建议的**案例研究**
 - 章末总结：带**项目链接**的章末摘要

ACS In Focus 系列介绍



- ACS数据库曾对中国地区的科研工作者进行调研，下列书目是**中国地区**的化学相关科研工作者最感兴趣的：



C&EN 化学与工程新闻介绍

c&en
GLOBAL ENTERPRISE

- Chemical & Engineering News (C&EN) 是屡获殊荣的**首选新闻来源**，面向学术界、工业界及其他领域的全球化学界成员。
- 其涵盖范围涵盖**最新的研究进展**、**正在改变我们学科的商业和政策趋势**、**重要的化学品安全数据**、**工作和职业信息**等等。

c&en
GLOBAL ENTERPRISE

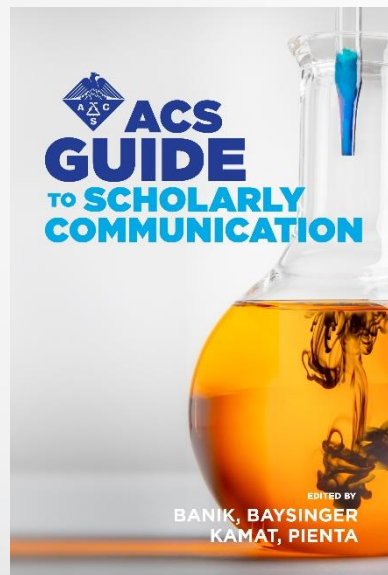




ACS GUIDE TO SCHOLARLY COMMUNICATION

ACS 学术交流指南

- 全面且权威的学术交流指南读物
- 具有跨学科的广泛适用性
- 以数字版本发行
- 不断发展以反映快速变化的出版环境中的最新信息
- 保持更新，包括包容性沟通的新指南等内容



ACS学术交流指南介绍

- ACS学术交流指南适合高年级本科生、研究生以及博士后等了解科研工作中的各种流程与应对。
- 现有章节包括：
 - 学术交流
 - 科学期刊
 - Google时代的数据
 - 科学写作风格惯例
 - 编辑风格惯例
 - 科学包容性等

PART 1: Scientific Communication

PART 2: Scientific Journals

PART 3: Data in the Google Era

PART 4: Scientific Style Conventions

PART 5: Editorial Style Conventions

PART 6: Inclusivity

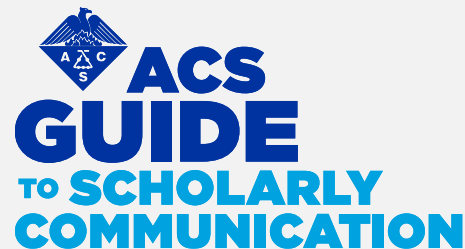


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PART 1: Scientific Communication

- 1.1 Different Ways Scientists Communicate ▾
- 1.2 Ethics in Scientific Publication ▾
- 1.3 Communicating Safety Information ▾
- 1.4 Intellectual Property: Copyright, Permissions, & Beyond ▾
- 1.5 Open Access ▾ [ACS AuthorChoice](#)
- 1.6 Chemistry Preprints ▾
- 1.7 Poster Presentations ▾
- 1.8 Effective Slide Presentations ▾
- 1.9 Creating Effective Patents ▾

ACS REAGENT CHEMICALS

ACS 试剂手册

- 有关所有试剂化学品的一般物理特性的数据
- 所有试剂化学品的分析用途
- 标准分析方法指南
- 每年更新两次以反映最新信息





ACS Institute
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ACS旗下的一个学习平台，旨在**填补**
化学专业知识培训领域的空白，涵盖
广泛的学科领域。

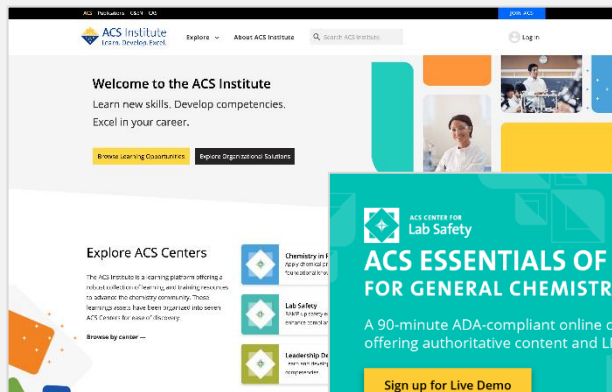
ACS 通用化学实验室安全要点

该 ACS Institute课程为两年制和四年
制机构的普通化学课程提供权威、易
于采用的**安全培训资源**。

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ACS CENTER FOR
Lab Safety



ACS Solutions Center

<https://solutions.acs.org/>

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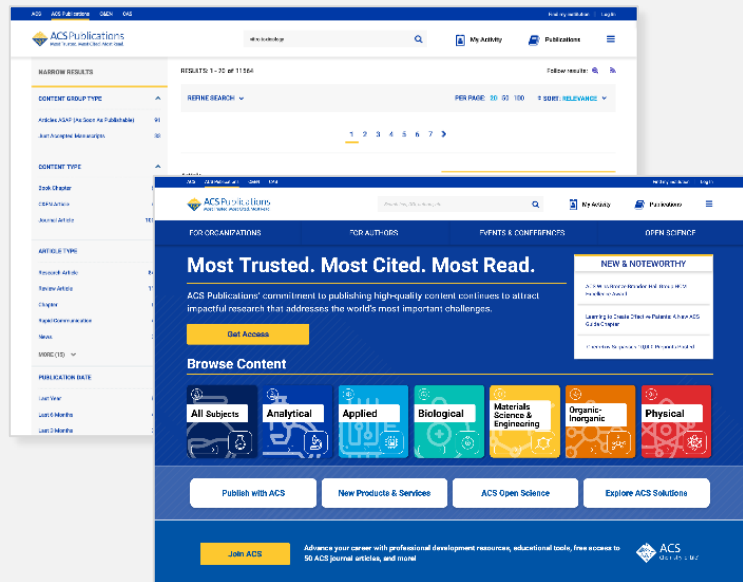
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ACS数据库根据领域将期刊分为六类：

- 分析化学
- 应用化学
- 生物化学
- 材料科学与工程
- 有机与无机化学
- 物理化学

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The screenshot shows the ACS Publications website homepage. At the top, there is a search bar and navigation links for 'My Activity' and 'Publications'. Below this is a horizontal menu with four categories: 'FOR ORGANIZATIONS', 'FOR AUTHORS', 'EVENTS & CONFERENCES', and 'OPEN SCIENCE'. A red box highlights four main navigation buttons: 'Publish with ACS', 'New Products & Services', 'ACS Open Science', and 'Explore ACS Solutions'. Below these buttons is a 'Join ACS' button and a text block: 'Advance your career with professional development resources, educational tools, free access to 50 ACS journal articles, and more!'. A second red box highlights a grid of content cards, including 'FULLY OPEN ACCESS JOURNALS', 'ACS READ + PUBLISH', 'ACS Supports Open Science', 'ACS Meetings', and 'ChemRxiv'. A third red box highlights the 'Explore ACS Solutions' card, which features the text 'Explore ACS Solutions' and 'Innovative solutions for organizations of all sizes'. Red arrows point from the 'ACS Open Science' and 'Explore ACS Solutions' buttons to their respective content areas.

产品以及服务链接，可方便的找到：

- 文章发表相关服务
- ACS数据库新产品以及服务
- ACS如何支持开放科学
- ACS Solutions Center 入口

更加适合科研人员的平台网页

The screenshot displays the ACS Publications website interface. At the top, there is a search bar with the text "Search text, DOI, authors, etc." and a magnifying glass icon. To the right are navigation links for "My Activity", "Publications", and a menu icon. Below this is a dark blue navigation bar with white text for "FOR ORGANIZATIONS", "FOR AUTHORS", "EVENTS & CONFERENCES", and "OPEN SCIENCE".

The main content area features a yellow banner for "ACS Editors' Choice" with the text "Based on recommendations from the scientific editors of ACS Journals. [See all articles.](#)".

Two article recommendations are shown:

- System Engineering Enhances Photoelectrochemical CO₂ Reduction**
Miao Kan, Qihao Wang, Shuya Hao, Anxiang Guan, Yangshen Chen, Quan Zhang, Qing Han, and Gengfeng Zheng*
J. Phys. Chem. C (Article)
Cite This: *J. Phys. Chem. C* 2022, 126, 4, 1689–1700
- Machine Learning C–N Couplings: Obstacles for a General-Purpose Reaction Yield Prediction**
Martin Fitzner, Georg Wuitschik*, Raffael Koller, Jean-Michel Adam, and Torsten Schindler
ACS Omega (Article)
Cite This: *ACS Omega* 2023, 8, 3, 3017–3025

The article "System Engineering Enhances Photoelectrochemical CO₂ Reduction" includes a circular diagram of a photoelectrochemical reactor. The diagram is divided into four quadrants: "Photoelectrode" (top, red), "Reactor" (left, yellow), "Membrane" (right, green), and "Electrolyte" (bottom, blue). It shows the flow of CO₂ and H₂O, and the production of HCO₃⁻ and CH₃COO⁻. The "Photoelectrode" section shows light energy (hv) and the generation of e⁻ and h⁺. The "Reactor" section shows the flow of CO₂ and H₂O. The "Membrane" section shows the flow of HCO₃⁻ and CH₃COO⁻. The "Electrolyte" section shows the flow of H₂O and H⁺.

The article "Machine Learning C–N Couplings: Obstacles for a General-Purpose Reaction Yield Prediction" includes a flowchart of a machine learning pipeline. It starts with "Reaction Databases" (represented by three cylinders), which feed into "ML Yield Prediction" (represented by a neural network diagram). The output of the ML model is used to create "Split-Off Test Sets" (represented by a box with a plus sign) and "Dedicated Exp. Test Set" (represented by a box with a plus sign). The ACS OMEGA logo is visible at the bottom right of the article.

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The screenshot shows the ACS Email Preference Center interface. At the top is a teal header with the text "EMAIL PREFERENCE CENTER" and a small icon of a person. Below the header is a navigation bar with five tabs: "RECOMMENDATIONS" (which is underlined), "INTERESTS", "JOURNALS", "NEWSLETTERS", and "PROFILE SETTINGS". The main content area is divided into two columns. The left column is titled "Recommendations" and contains the text: "Get recommendations for journals and newsletters to follow." followed by a paragraph: "We tailor our recommendations based on what you do, what you're interested in, and what you are currently following. Sign in to get started." The right column is titled "Recommended for you" and contains a paragraph: "We recommend newsletters and journals to follow based on your interests, and the journals and newsletters you already follow. By following an interest or newsletter you will start to receive periodic emails relating to that item, and by following a journal you will receive a weekly update of new articles and occasional journal news." Below this paragraph is a bolded instruction: "Click to follow the interests, journals or newsletters below:"

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The screenshot shows the ACS Publishing Center website. The header includes the ACS Publications logo and navigation links for Journals, eBooks, and CAEN Global Enterprise. The main content area features a large banner with the text "ACS Publishing Center" and "Everything you need to prepare and review manuscripts for ACS journals." Below this, there is a "Login" button and a "Register Now" link. A callout box on the right asks "Whatever happened to that manuscript you reviewed?" and offers access to data upon login. The "Journal Guidelines And Templates" section is visible below, containing a dropdown menu to "Select an ACS journal" and a list of links for "Author Guidelines", "Journal Scope", "Data and Figure Requirements", "Open Access and Preprint Policies", and "Contact Information".

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