

2020 CATALOG



ACS Publications
Most Trusted. Most Cited. Most Read.

ABOUT ACS AMERICAN CHEMICAL SOCIETY

With more than 157,000 members, the American Chemical Society (ACS) is the world's largest scientific society and one of the world's leading sources of authoritative scientific information.

A nonprofit organization chartered by Congress, ACS is at the forefront of the evolving worldwide chemical enterprise and the premier professional home for chemists, chemical engineers, and related professionals around the globe.

Chemistry for Life

WHAT ACS DOES

The Society publishes numerous scientific journals and databases, convenes major research conferences, and provides educational, science policy, and career programs in chemistry. ACS also gives more than \$22 million every year in grants for basic research in petroleum and related fields.

ACS plays a leadership role in educating and communicating with public policy makers and the general public about the importance of chemistry in our lives. This includes identifying new solutions, improving public health, protecting the environment, and contributing to the economy.

Project SEED offers bright, economically disadvantaged high

school students an opportunity to spend a summer conducting chemical laboratory research with the guidance of a chemical scientist.

The ACS Scholars Program

provides underrepresented minority undergraduates with the scholarship and mentoring support they need to earn degrees in the chemical sciences.

Advancing Chemistry Teaching


supports the professional development of science teachers so they can better present chemistry in the classroom and foster the scientific curiosity of our nation's youth.

Green Chemistry Education and Outreach

promotes the implementation of green chemistry and engineering principles into all aspects of the chemical enterprise.

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A close-up portrait of Mireille Kamariza, a young Black woman with short, curly hair, wearing clear safety glasses and smiling. The background is a soft-focus mix of blue and yellow. In the top left corner, there is a white rectangular box with diagonal hatching on its left side.

Behind every article, there's a
personal story of discovery

TRAILBLAZER

Mireille Kamariza

Ph.D. Student, Stanford University

Watch Ms. Kamariza's story at

ACSstories.org

Her work could replace a
100-year-old tuberculosis test
and save lives around the world.

About ACS Publications

Editorial Excellence for 141 Years

ACS Publications' commitment to publishing high-quality research continues to attract impactful research from top authors around the globe.

→ Trusted Peer Review

ACS Publications maintains the highest editorial standards, with fast, informed peer review and publication decision-making by prominent editors who are active researchers in the field. Each year more than 60,000 practicing scientists from around the world trust ACS Publications to rapidly advance their very best research. The peer-review process of ACS journals forms the foundation of this trust, ensuring fair and constructive feedback from leading scholars. Commitment to quality peer review enables ACS to produce a portfolio that generates more citations than portfolios two to three times its size.

→ A Home for Every Type of Research

With a comprehensive portfolio of 60 journals, including our newest open access mega-journal, *ACS Omega*, ACS Publications has a home for every variety of research. Improvements to the ACS Manuscript Transfer Service make it easier than ever to resubmit research to another journal within the ACS family. Find out more on page 124 or visit pubs.acs.org/transfer.

→ Enhanced Technology

In addition to ACS Paragon Plus, the state-of-the-art platform for manuscript submission and review, ACS brings a number of free publishing tools to the scientific community. The ACS Publishing Center provides authors with free access to tools for evaluating their published articles' citation and download metrics. Authors also enjoy enhanced tools for tracking articles currently under peer review.

Find out more on page 120 or visit pubs.acs.org/publish

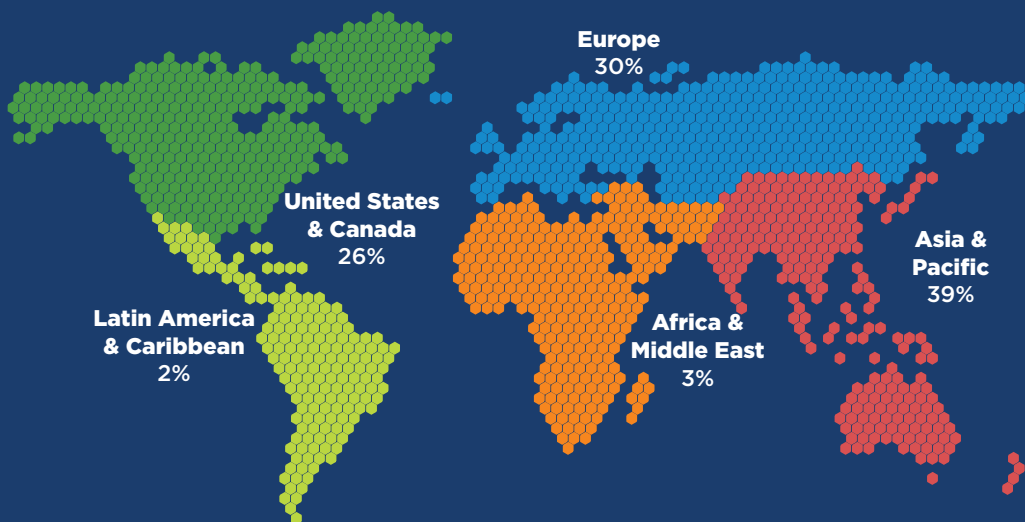
→ Rapid Publication

The ongoing introduction of Letters-format journals has allowed ACS Publications to shorten the time from submission to publication to as little as 4 weeks. Just Accepted manuscripts give authors the option of having unredacted versions of their manuscripts posted online within 24 hours of acceptance, thereby shortening publishing times even more. This brings authors' work rapid exposure and gives the scientific community access to valuable information faster than ever before.

→ Broad Global Exposure

Researchers at more than 5,000 institutions in 99 countries have access to ACS Publications. ACS publishes research from around the globe.

ACS Published Manuscripts by Author Origins in 2018



About ACS Publications



In 2018, more than **76%** of ACS Publications **article requests** originated from **outside North America**.

What Fuels ACS Publications' Growth

In 2020, three new journals will officially become part of the ACS All Publications Package.

- > *ACS Chemical Health & Safety*
- > *ACS Materials Letters*
- > *Journal of The American Society for Mass Spectrometry*

Why does ACS Publications' product and technology portfolio continue to expand?

The answer is simple. The science of chemistry and related sciences continues to grow and specialize. With that growth comes increased demand from the scientific community for high-quality technology and publishing venues.

ACS Publications is **highly selective** in the decision to bring new journals to the scientific community. The selection begins with the recognition that a discipline in chemistry or a related science is underserved by currently available publications. Once the need for a new journal has been validated through research and consultation with the scientific community, a proposal for a new journal is presented for consideration and review by ACS editors and an elected board of ACS members to assess scientific validity and need.

By the time a new journal is introduced by ACS Publications, it has already **passed several internal stages of review** by active researchers and ACS members and has received a commitment from the Society to support that field and its respective community for years to come.

ACS Publications' recognition of new areas and growth in journals has **pushed the boundaries of chemistry** for years, reaching and covering the interface with biology, environmental sciences, nanoscience, materials science, and more. These are all areas in which the discovery and dissemination of information help improve our lives and the environment in which we live—furthering ACS' organizational mission.

New ACS journals rapidly earn the trust of the scientific community, win awards from the publishing industry, and become **high-value, top-performing journals**, rounding out the entire ACS portfolio.



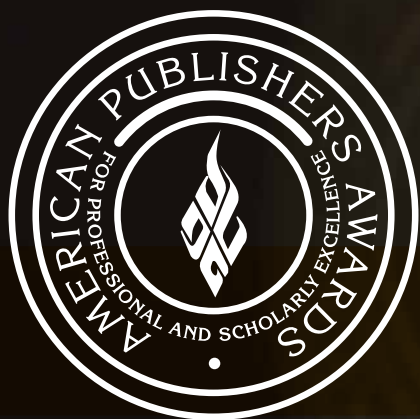
ACS journals launched since 2013 have earned an impressive median **Impact Factor of 6.939.**

The annual PROSE Awards celebrate the best in professional and scholarly publishing, including books, journals, and electronic content across more than 40 categories.

Submissions from major publishers are judged by expert panels of peer publishers, librarians, and science, technology, and medical professionals. New products launched by ACS are frequently recognized by the publishing community for their valuable contributions to advancing the sciences.

PROSE Awards for New ACS Products

- **ACS Central Science**—2017 Journal/Award for Innovation
- **ACS Synthetic Biology**—2013 Best New Journal in Science, Technology & Medicine
- **ACS ChemWorx™**—2013 Best App/eProduct
- **ACS Catalysis**—2012 Best New Journal in Science, Technology & Medicine
- **C&EN Mobile**—2011 Best eProduct in Physical Sciences & Mathematics
- **ACS Mobile**—2010 Best eProduct in Physical Sciences & Mathematics and Best eProduct/Innovation in ePublishing
- **ACS Nano**—2008 Best New Journal in Science, Technology & Medicine
- **ACS Web Editions Platform**—2008 Best eProduct Website or Platform
- **ACS Chemical Biology**—2006 Hawkins Award Winner for Innovation in Journal Publishing



The annual **PROSE Awards** celebrate the best in professional and scholarly publishing.

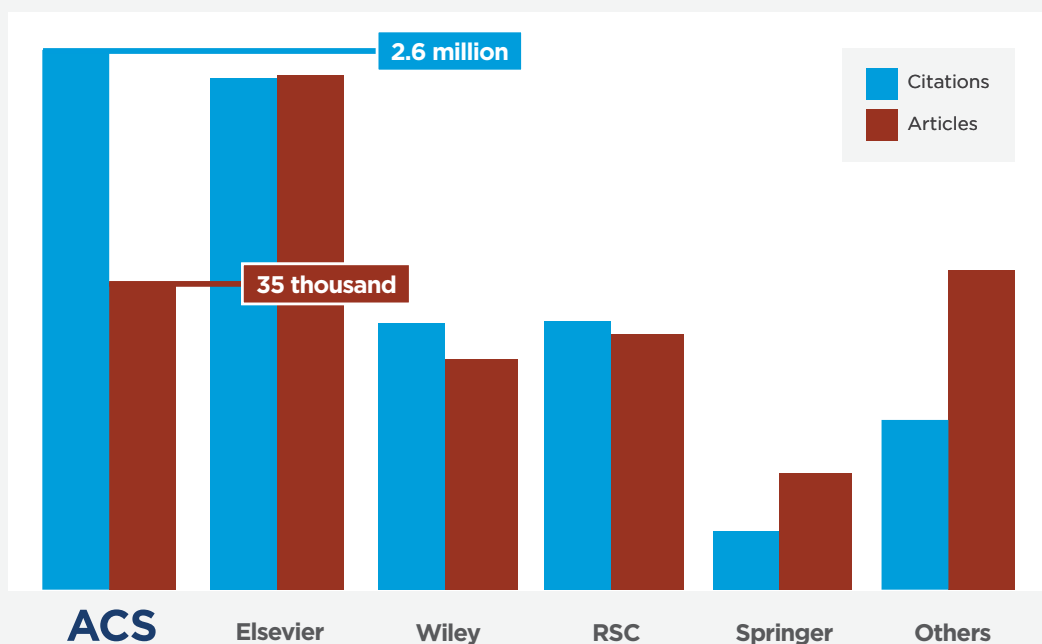
ACS Publications' Unsurpassed Performance

In addition to the rapid acceptance and award-winning performance of new products, ACS Publications' established portfolio continues to exceed expectations and remains the world's **most trusted, most cited, and most read collection of journals** in the chemical and related sciences. This lasting quality is the result of ACS Publications' ongoing commitment to editorial excellence, author benefits, and highly selective growth in the sciences.

→ Most Cited and Highest Value

In 2018, ACS Publications received 2.6 million citations in the core chemistry categories and published 35,000 articles.

Best Overall Value in 2018 by Total Citations and Articles Published in the Core Chemistry Categories



2018 Journal Citation Reports® (Clarivate Analytics, 2019)

→ Newsworthy Content

The research in ACS Publications regularly impacts our daily lives, often in areas far beyond those perceived as chemistry.

Visit acsinthenews.org and read about ACS authors from your institution making global headlines in these major news outlets and more:

MSN (New York, NY)

Shape (New York, NY)

ECN Magazine (Rockaway, NJ)

Harvard School of Engineering and Applied Sciences (Cambridge, MA)

Scientific American (New York, NY)

Phys.Org (Tilburg, Netherlands)

Science Daily (Sandy Hook, CT)

News Medical (Sydney, Australia)

NPR (Washington, DC)

The Scientist (New York, NY)

Mirror (London, UK)

Medical News Today (Bexhill-on-Sea, UK)

Voice of America News (Washington, DC)

Medical Xpress (Tilburg, Netherlands)

Mental Floss (Tampa, FL)

Business Insider (New York, NY)

Digital Journal (Toronto, Canada)

BBC News (London, UK)

Irish Examiner (Dublin, Ireland)

Daily Mail (London, UK)

Examiner.com (Atlanta, GA)

Discovery News (Silver Spring, MD)

CNN (Atlanta, GA)

Yahoo! News (Sunnyvale, CA)

Nanowerk (Honolulu, HI)

RedOrbit (Dallas, TX)

ABC News (New York, NY)

CNET News (San Francisco, CA)

The Economic Times (New Delhi, India)

Forbes (New York, NY)

Newsweek (New York, NY)

International Business Times (UK)

New Atlas (Victoria, Australia)

The Los Angeles Times (Los Angeles, CA)

Smithsonian.com (Washington, DC)

io9 (Sydney, Australia)

→ Multidisciplinary Impact

ACS journals aren't just for scientists in white lab coats holding beakers of colored fluid. From cures for diseases to high-tech materials, the research in ACS Publications is as unique and varied as the scientists who read them. **Content in ACS Publications impacts nearly every scientific discipline, including medicine, nanoscience, engineering, environmental studies, computer science, telecommunications, physics, and far beyond.**



55% of articles that cite ACS Publications are classified as outside the core chemistry categories.

ACS Publications' Impact on Chemistry

	Journal Impact Factor	Total Cites	Articles
Accounts of Chemical Research	21.661	69,687	321
ACS Applied Bio Materials		New in 2018	
ACS Applied Electronic Materials		New in 2019	
ACS Applied Energy Materials		New in 2018	
ACS Applied Materials & Interfaces	8.456	170,096	4,890
ACS Applied Nano Materials		New in 2018	
ACS Applied Polymer Materials		New in 2019	
ACS Biomaterials Science & Engineering	4.511	3,803	417
ACS Catalysis	12.221	55,465	1,235
ACS Central Science	12.837	4,160	173
ACS Chemical Biology	4.374	11,691	364
ACS Chemical Health & Safety		Data not available*	
ACS Chemical Neuroscience	3.861	5,238	290
ACS Combinatorial Science	3.200	1,773	76
ACS Earth and Space Chemistry	2.243	235	126
ACS Energy Letters	16.331	10,134	374
ACS Infectious Diseases	4.911	1,459	161
ACS Macro Letters	5.775	9,573	262
ACS Materials Letters		New in 2019	
ACS Medicinal Chemistry Letters	3.737	5,475	212
ACS Nano	13.903	152,659	1,290
ACS Omega	2.584	3,901	2,043
ACS Pharmacology & Translational Science		New in 2018	
ACS Photonics	7.143	9,956	649
ACS Sensors	6.944	3,439	310
ACS Sustainable Chemistry & Engineering	6.970	24,768	1,856
ACS Synthetic Biology	5.571	4,890	305
Analytical Chemistry	6.350	133,005	1,899
Biochemistry	2.952	74,080	703
Bioconjugate Chemistry	4.349	15,840	431
Biomacromolecules	5.667	37,954	437
Chemical & Engineering News	0.687	1,314	253
Chemical Research in Toxicology	3.274	11,884	152
Chemical Reviews	54.301	188,635	222
Chemistry of Materials	10.159	106,568	967

In 2018, ACS journals were **cited more than 3.4 million times.**

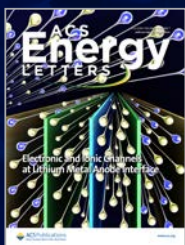
	Journal Impact Factor		Total Cites	Articles
Crystal Growth & Design	4.153		29,940	875
Energy & Fuels	3.021		44,127	1,285
Environmental Science & Technology	7.149		173,191	1,501
Environmental Science & Technology Letters	6.934		2,531	121
Industrial & Engineering Chemistry Research	3.375		71,983	1,645
Inorganic Chemistry	4.850		93,363	1,672
Journal of Agricultural and Food Chemistry	3.571		109,151	1,448
Journal of the American Chemical Society	14.695		550,343	2,417
Journal of the American Society for Mass Spectroscopy	3.202		9,644	242
Journal of Chemical & Engineering Data	2.298		21,565	491
Journal of Chemical Education	1.763		12,588	364
Journal of Chemical Information and Modeling	3.966		16,352	227
Journal of Chemical Theory and Computation	5.313		30,541	571
Journal of Medicinal Chemistry	6.054		69,945	724
Journal of Natural Products	4.257		25,908	338
Journal of Organic Chemistry	4.745		98,696	1,558
Journal of Physical Chemistry A	2.641		59,462	999
Journal of Physical Chemistry B	2.923		111,618	1,231
Journal of Physical Chemistry C	4.309		149,348	3,209
Journal of Physical Chemistry Letters	7.329		45,404	1,070
Journal of Proteome Research	3.780		21,216	393
Langmuir	3.683		117,927	1,700
Macromolecules	5.997		102,131	1,022
Molecular Pharmaceutics	4.396		16,792	541
Nano Letters	12.279		163,570	1,104
Organic Letters	6.555		100,313	1,839
Organic Process Research & Development	3.327		7,098	203
Organometallics	4.100		38,074	536

Thanks to Our Editors, Authors, Reviewers, and Readers, ACS Publications Is a Leader in the Latest Journal Rankings

The peer-reviewed journals of ACS are the most-cited or highest-impact scientific journals in 13 scientific categories, including 6 core chemistry categories, according to the 2019 Journal Citation Reports®.

Turn to the next page to see where ACS Publications' journals rank!

Select Highlights from ACS Journals



ACS ENERGY LETTERS
RANKS #1 in Impact Factor in the category of Electrochemistry while recording its first full Impact Factor of 16.331.



CRYSTAL GROWTH & DESIGN
RANKS #1 in citations in the category of Crystallography.



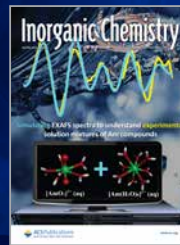
ANALYTICAL CHEMISTRY
RANKS #1 in citations in the category of Chemistry, Analytical while recording its **highest-ever Impact Factor of 6.350**.



ENVIRONMENTAL SCIENCE & TECHNOLOGY
RANKS #1 in citations in the categories of Engineering, Environmental and Environmental Sciences. The journal also recorded its **highest-ever Impact Factor of 7.149**.



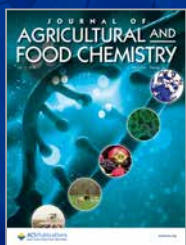
CHEMICAL REVIEWS
RANKS #1 in Impact Factor in the category of Chemistry, Multidisciplinary while recording its **highest-ever Impact Factor of 54.301**.



INORGANIC CHEMISTRY
RANKS #1 in citations in the category of Chemistry, Inorganic and Nuclear.



76% OF ACS JOURNALS (41 journals of 54) indexed in JCR **RANKED IN THE TOP QUARTILE** of their subject categories based on Impact Factor.



JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY

RANKS #1 in citations in the categories of Chemistry, Applied; Agriculture, Multidisciplinary; and Food Science & Technology while recording its **highest-ever Impact Factor of 3.571**.



JOURNAL OF ORGANIC CHEMISTRY

RANKS #1 in citations in the category of Chemistry, Organic.



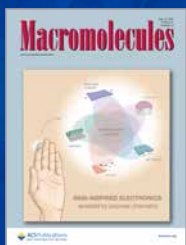
JOURNAL OF MEDICINAL CHEMISTRY

RANKS #1 in citations in the category of Chemistry, Medicinal.



JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

RANKS #1 in citations in the category of Chemistry, Multidisciplinary while recording its **highest-ever Impact Factor of 14.695**.



MACROMOLECULES

RANKS #1 in citations in the category of Polymer Science while recording its highest-ever Impact Factor of 5.997.



ACS journals rank **#1 IN IMPACT FACTOR** or citations in 14 categories, including **6 OF THE 7 CORE CHEMISTRY CATEGORIES**.



Chemical Reviews ranks **#6 IN IMPACT FACTOR** out of all of the nearly 12,000 journals indexed in Journal Citation Reports.

The All-New ACS Publications Web Experience

ACS Publications delivers more than **1 million** high-quality research articles from a global community of scientists.

All new article pages featuring more prominent article metrics and improved navigation to figures, supporting information, and references.

View prominent metrics on article views, Altmetric Attention Score, and citations

Access a PDF version of the article

The screenshot shows the ACS Publications article page for the paper "Automatic Chemical Design Using a Data-Driven Continuous Representation of Molecules" by Kubo et al. The page features a header with the ACS Publications logo and navigation options. Below the title, there are article metrics: 8991 views, 414 citations, and 31 Altmetric Attention Score. A PDF icon is visible. The main content area includes an abstract, a synopsis, an introduction, and a references section. A figure showing a 3D molecular structure is also present. The page is annotated with red callout boxes pointing to various features.

Share an article with friends and colleagues or export it to Mendeley

Navigate easily through figures, references, and supporting information

Use a variety of tools to easily read, browse, and search across all our journal articles, book chapters, and news content.

All new journal homepages featuring simplified navigation to the latest research articles, past issues, and journal information.

The image shows a screenshot of the ACS Publications website for ACS Central Science. The page features a dark header with the journal title and navigation links. Below the header, there are several callout boxes with red arrows pointing to specific elements on the page:

- Navigate to current and past issues:** Points to the navigation bar containing links for "List of Issues", "ASAP Articles", "Current Issue", and "About the Journal".
- View important journal metrics and information:** Points to the "Metrics" and "Information" buttons in the top right corner.
- View recently published articles:** Points to the "ASAP" section, which displays a list of recent articles with their titles and authors.

About ACS Publications



In addition, integration between ACS Publications and SciFinder allows for easy retrieval of substances indexed in the article, along with author and topical search.

An Inspiring Online Platform

Enhanced browsing through article collections.

Preview the graphical and written abstracts of articles.

The screenshot shows the ACS Publications website. At the top, there is a navigation bar with 'ACS Publications' and 'JACS' logos. Below the navigation bar, there is a search bar and a 'My Activity' link. The main content area features a 'ASAP (As Soon As Publishable)' section with a 'CURRENT ISSUE' and 'VIEW ALL ISSUES' link. Below this, there are two article previews for the month of March 5, 2019. The first article is 'Ribosomal Synthesis of Backbone-Cyclic Peptides Compatible with In Vitro Display' and the second is 'Acid-Triggered, Acid-Generating, and Self-Amplifying Degradable Polymers'. Both articles include abstracts and graphical representations. Red callout boxes with arrows point to the search bar, the 'CURRENT ISSUE' link, and the article abstracts.

Easily search for other research with persistent search box

Navigate to other journal issues

Preview abstract and article graphics

Made for mobile devices such as tablets and smartphones, with a responsive design and the ability to pair your devices for off-campus access.



View an Online Demo

Learn about all the features of the ACS Publications website. Visit pubs.acs.org/demo for tips and guides to improve your searching, browsing, and online research experiences.

Social Media

Stay up to date with the latest news and views from ACS Publications, including *Chemical & Engineering News*, by following us on Twitter, Facebook, and LinkedIn.



ACS Publications and Figshare

ACS recently partnered with Figshare, an open repository that promotes broad discoverability of scientific research data. The ACS partnership with Figshare provides our authors and researchers with improved archiving and access to open data sets and other supporting information that often accompany articles published in ACS Publications' peer-reviewed research journals.

Learn How ACS & Figshare Make Your SI More Discoverable

Learn more at acs.figshare.com.

ACS on Campus

acsoncampus.acs.org



The Value:

After an ACS on Campus event, students and faculty leave feeling confident in their science and empowered to contribute to the larger chemical enterprise.

- **Get Results.** Learn the foundations of publishing and informatics processes: benefit from exposure to the ACS Editors, practicing scientists at the top of their fields.
- **Get Published.** Share your science with confidence: get essential tips for becoming a better writer, reviewer, and communicator.
- **Get Ahead.** Develop your career: network with local professionals and your peers across scientific disciplines.

ACS is committed to helping the users of subscribing institutions achieve their career and publishing goals.

Each year, ACS on Campus brings the world's leaders in chemistry, publishing, research, science communication, and career development to institutions around the world with the help of ACS programs and services. ACS on Campus is structured to help students and researchers get published in top journals and advance their careers through engaging sessions and interactive events.



ACS National Meeting, Orlando, FL - August 26, 2018



Hong Kong University of Science and Technology - April 19, 2018

ACS on Campus now has programming exclusively for librarians and library school students.

At ACS on Campus for Librarians, you'll learn about the latest initiatives from ACS, discuss important topics such as open access and current challenges in librarianship, and network with other librarians.



IICT Hyderabad, India - February 7, 2019



ACS ON CAMPUS



“It is an excellent way to get great feedback from not only professionals in their respective fields but also to engage with a very talented, dedicated audience with similar interests and impressive experience.”

— University of Florida

“A great opportunity for scientists to have a space like ACS, in which we can share and learn from our colleagues' work, interact with people from different cultures and contribute to the advancement of science.”

— Bogotá, Colombia

“The opportunity to talk about science, technology, and education with big names in our areas was phenomenal.”

— Universidade de São Paulo



Universidad de Los Andes, Colombia,
February 27, 2019



Universidad de São Paulo, Brazil
May 15, 2019



University of Manchester, UK,
November 30, 2018

“ACS on Campus is an astonishing event in the world of chemistry.”

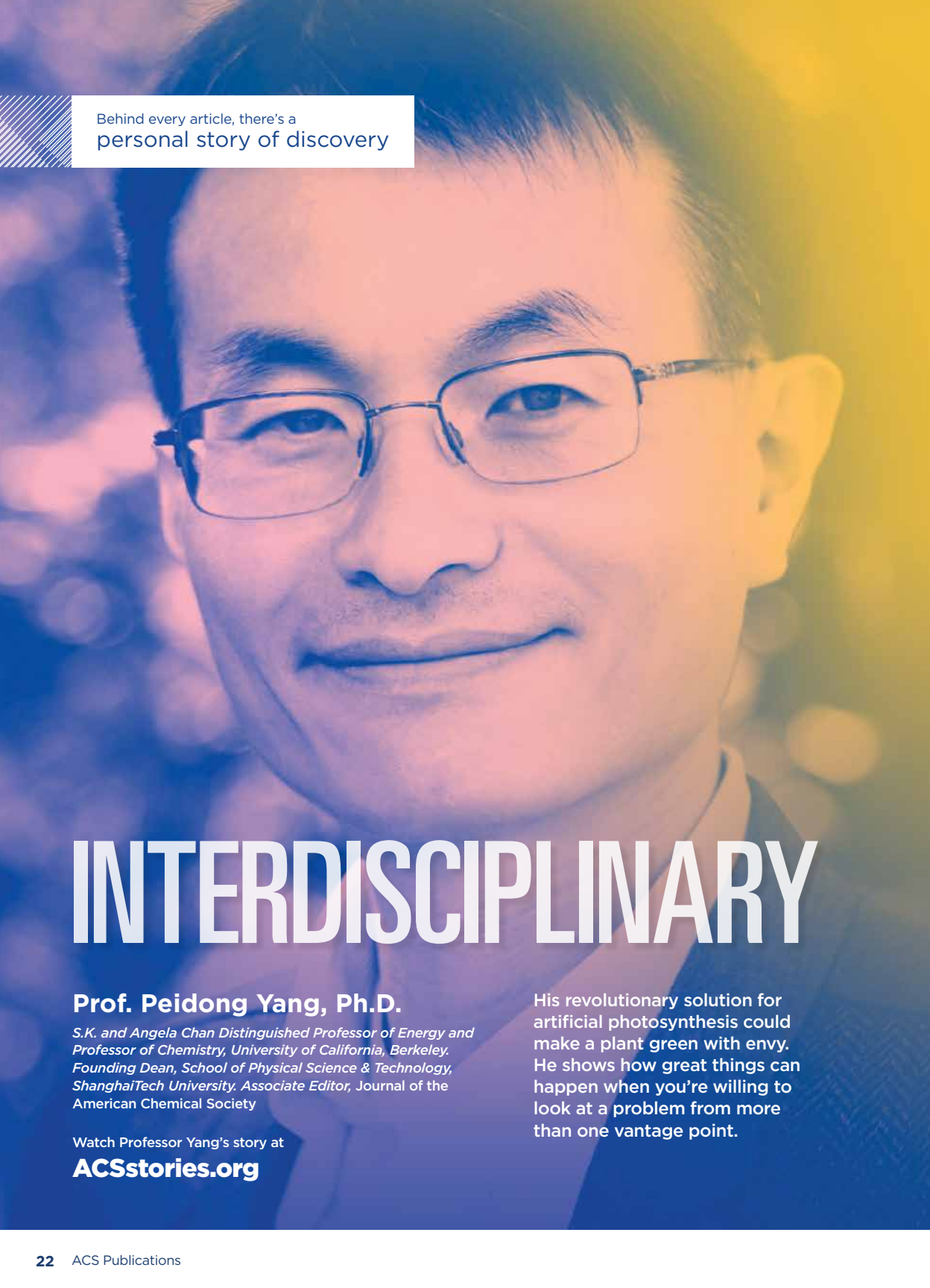
— St. Petersburg State University

“ACS on Campus provides an excellent opportunity to interact with stalwarts in the field of chemistry. It is a great opportunity for young minds to orient their research careers and for the more-seasoned minds to polish and update their ideas to adapt to the ever-dynamic world of research.”

— IISc Bangalore

“The information about the publishing process was vital! I was able to interact with editors and writers in a venue I have not been able to before as a researcher.”

— Boston, Massachusetts

A close-up portrait of Prof. Peidong Yang, a man with short dark hair and glasses, wearing a dark suit jacket and a light-colored shirt. The background is a soft-focus bokeh of lights in shades of blue and yellow. A white rectangular box with a diagonal line pattern on the left side is positioned in the upper left corner.

Behind every article, there's a
personal story of discovery

INTERDISCIPLINARY

Prof. Peidong Yang, Ph.D.

S.K. and Angela Chan Distinguished Professor of Energy and Professor of Chemistry, University of California, Berkeley. Founding Dean, School of Physical Science & Technology, ShanghaiTech University. Associate Editor, Journal of the American Chemical Society

Watch Professor Yang's story at

ACSstories.org

His revolutionary solution for artificial photosynthesis could make a plant green with envy. He shows how great things can happen when you're willing to look at a problem from more than one vantage point.

ACS Open Access Options

ACS Supports Open Science

At ACS, we share your goal of helping your patrons to disseminate their high-quality research findings broadly and globally to help advance science. That's why we continue to expand our flexible, robust program of open access (OA) options to meet evolving funder and institution requirements.

Moving forward in a collaborative, transparent manner, we are committed to enabling researchers to continue publishing—in the manner and the journal of their choice—while also ensuring the quality, reliable preservation of the scholarly record through a sustainable publishing enterprise.

In addition to OA options such as ACS AuthorChoice, ACS Publications is working with institutions and funders to enable them to directly sponsor article-publishing charges on behalf of research authors. These transformative agreements, established with a growing number of institutions worldwide, demonstrate our commitment to embracing a future-oriented strategy for transitioning to open science.

The result? ACS is helping to make OA publishing easy for authors so they can focus on what is most important: their research.

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acsopenaccess.org

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ACS AuthorChoice is a gold open access solution offering unrestricted web access to the final published article for a one-time fixed payment. Authors may purchase open access immediately or at 12 months after publication of their final published article in any ACS journal. Authors can receive a CC BY-ND-NC Creative Commons license at no extra cost upon request or choose to add a CC-BY Creative Commons license. As an added benefit, all **ACS AuthorChoice** licenses include ACS Certified Deposit—deposition of the final published article to an institutional/funder repository of the authors' choice by ACS.

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ACS Omega

ACS Omega is an open-access, multidisciplinary, peer-reviewed journal with fast publication and competitive author publishing charges. Authors benefit from having their important research results published rapidly and distributed to the global scientific community.

Learn more at pubs.acs.org/acsomega

ACS Central Science

ACS Central Science is a highly selective, peer-reviewed journal publishing exceptional multidisciplinary papers across the broad spectrum of the chemical sciences. All articles are free immediately upon publication with no article publishing charges. Renowned scientist and Editor-in-Chief Carolyn R. Bertozzi leads an international editorial board of researchers from a broad range of disciplines. Together, they give a manuscript the special attention it deserves.

Read it for free at pubs.acs.org/centralscience

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Read them now for free at pubs.acs.org/editorschoice

The image features a laboratory background with a hand in a pink glove holding a test tube containing purple liquid, and a pipette dispensing blue liquid. The ChemRxiv logo is centered in a black box. The background is filled with soft, out-of-focus bokeh lights in various colors.

ChemRxiv™

chemrxiv.org

ChemRxiv™

**ChemRxiv™ is the open preprint server
for the global chemistry community**

Authors have the opportunity to put their research immediately out on the web and share it with scientists and colleagues prior to formal peer review. ChemRxiv™ is openly accessible, with no subscription fees for readers and no submission charges for authors.

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Supported by:



A close-up portrait of Prof. Ali Khademhosseini, a man with dark hair and glasses, smiling slightly. The background is a soft gradient of blue and yellow. A white box with a diagonal line pattern on the left side is positioned in the upper left corner.

Behind every article, there's a
personal story of discovery

BUILDER

Prof. Ali Khademhosseini, Ph.D.

Professor of Bioengineering, Chemical Engineering, and Radiology, UCLA. Associate Editor, ACS Nano

Watch Professor Khademhosseini's story at

ACSstories.org

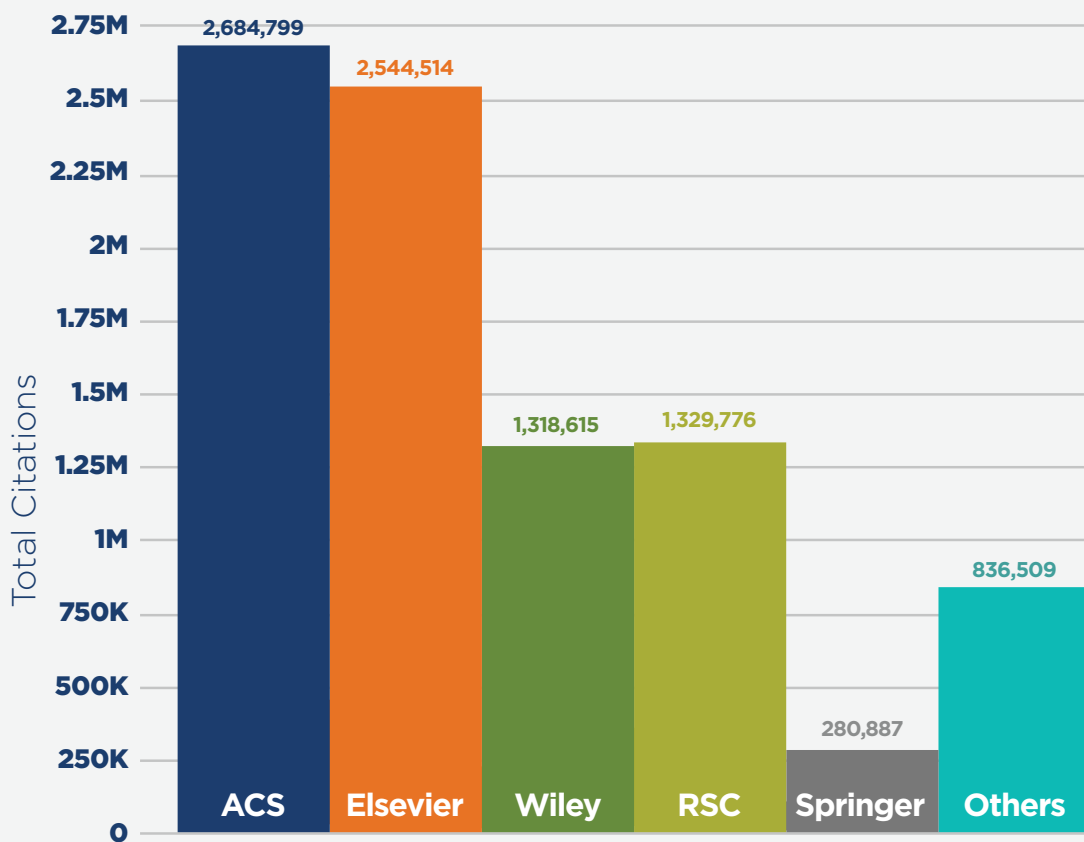
Using cutting-edge technologies like “organ-on-a-chip” systems and 3-D bioprinting, Professor Khademhosseini's breakthrough work in tissue engineering actually recreates the complexity of human physiology outside of the body, fundamentally altering the way we think about drug development and regenerative medicine.

ACS Journals

ACS Journals Summary

ACS Publications maintains the highest editorial standards, resulting in the highest-quality published research. Year after year, ACS Publications remains the most cited publisher in chemistry.

Most Citations in the Core Chemistry Categories



2018 Journal Citations Reports® (Clarivate Analytics, 2019)

Publication Title	Print ISSN	Web ISSN	First Issue	Subscription Coverage	ACS Legacy Archives
Accounts of Chemical Research	0001-4842	1520-4898	1968	1996-Present	1968-1995
ACS Applied Bio Materials	Web Only	2576-6422	2018	2018-Present	NA
ACS Applied Electronic Materials	Web Only	2637-6113	2019	2019-Present	NA
ACS Applied Energy Materials	Web Only	2574-0962	2018	2018-Present	NA
ACS Applied Materials & Interfaces	1944-8244	1944-8252	2009	2009-Present	NA
ACS Applied Nano Materials	Web Only	2574-0970	2018	2018-Present	NA
ACS Applied Polymer Materials	Web Only	2637-6105	2019	2019-Present	NA
ACS Biomaterials Science & Engineering	Web Only	2373-9878	2015	2015-Present	NA
ACS Catalysis	Web Only	2155-5435	2011	2011-Present	NA
ACS Central Science	Web Only	2374-7951	2015	2015-Present	NA
ACS Chemical Biology	1554-8929	1554-8937	2006	2006-Present	NA
ACS Chemical Health & Safety	1871-5532	1878-0504	1994	TBD	NA
ACS Chemical Neuroscience	Web Only	1948-7193	2010	2010-Present	NA
ACS Combinatorial Science	2156-8952	2156-8944	1999	1999-Present	NA
ACS Earth and Space Chemistry	Web Only	2472-3452	2017	2017-Present	NA
ACS Energy Letters	Web Only	2380-8195	2016	2016-Present	NA
ACS Infectious Diseases	Web Only	2373-8227	2015	2015-Present	NA
ACS Macro Letters	Web Only	2161-1653	2012	2012-Present	NA
ACS Materials Letters	Web Only	2639-4979	2019	2019-Present	NA
ACS Medicinal Chemistry Letters	Web Only	1948-5875	2010	2010-Present	NA
ACS Nano	1936-0851	1936-086X	2007	2007-Present	NA
ACS Omega	Web Only	2470-1343	2016	2016-Present	NA
ACS Pharmacology & Translational Science	Web Only	2575-9108	2018	2018-Present	NA
ACS Photonics	Web Only	2330-4022	2014	2014-Present	NA
ACS Sensors	Web Only	2379-3694	2016	2016-Present	NA
ACS Sustainable Chemistry & Engineering	Web Only	2168-0485	2013	2013-Present	NA
ACS Synthetic Biology	Web Only	2161-5063	2012	2012-Present	NA
Analytical Chemistry	0003-2700	1520-6882	1929	1996-Present	1929-1995
Biochemistry	0006-2960	1520-4995	1962	1996-Present	1962-1995
Bioconjugate Chemistry	1043-1802	1520-4812	1990	1996-Present	1990-1995
Biomacromolecules	1525-7797	1526-4602	2000	2000-Present	NA
Chemical Research in Toxicology	0893-228X	1520-5010	1988	1996-Present	1988-1995
Chemical Reviews	0009-2665	1520-6890	1924	1996-Present	1924-1995
Chemistry of Materials	0897-4756	1520-5002	1989	1996-Present	1989-1995
Crystal Growth & Design	1528-7483	1528-7505	2001	2001-Present	NA
Energy & Fuels	0887-0624	1520-5029	1987	1996-Present	1987-1995
Environmental Science & Technology	0013-936X	1520-5851	1967	1996-Present	1967-1995
Environmental Science & Technology Letters	Web Only	2328-8930	2014	2014-Present	NA
Industrial & Engineering Chemistry Research	0888-5885	1520-5045	1909	1996-Present	1909-1995
Inorganic Chemistry	0020-1669	1520-510X	1962	1996-Present	1962-1995
Journal of Agricultural and Food Chemistry	0021-8561	1520-5118	1953	1996-Present	1953-1995
Journal of the American Chemical Society	0002-7863	1520-5126	1879	1996-Present	1879-1995
Journal of the American Society for Mass Spectrometry	1044-0305	1879-1123	1990	TBD	NA
Journal of Chemical & Engineering Data	0021-9568	1520-5134	1956	1996-Present	1956-1995
Journal of Chemical Education	0021-9584	1938-1328	1924	1924-Present	1924-1995
Journal of Chemical Information and Modeling	1549-9596	1549-960X	1961	1996-Present	1961-1995
Journal of Chemical Theory and Computation	1549-9618	1549-9626	2005	2005-Present	NA
Journal of Medicinal Chemistry	0022-2623	1520-4804	1959	1996-Present	1959-1995
Journal of Natural Products	0163-3864	1520-6025	1979	1996-Present	1979-1995
The Journal of Organic Chemistry	0022-3263	1520-6904	1936	1996-Present	1936-1995
The Journal of Physical Chemistry A	1089-5639	1520-5215	1896	1996-Present	1896-1995
The Journal of Physical Chemistry B	1520-6106	1520-5207	1896	1996-Present	1896-1995
The Journal of Physical Chemistry C	1932-7447	1932-7455	1896	1996-Present	1896-1995
The Journal of Physical Chemistry Letters	Web Only	1948-7185	2010	2010-Present	NA
Journal of Proteome Research	1535-3893	1535-3907	2002	2002-Present	NA
Langmuir	0743-7463	1520-5827	1985	1996-Present	1985-1995
Macromolecules	0024-9297	1520-5835	1968	1996-Present	1968-1995
Molecular Pharmaceutics	1543-8384	1543-8392	2004	2004-Present	NA
Nano Letters	1530-6984	1530-6992	2001	2001-Present	NA
Organic Letters	1523-7060	1523-7052	1999	1999-Present	NA
Organic Process Research & Development	1083-6160	1520-586X	1997	1997-Present	NA
Organometallics	0276-7333	1520-6041	1982	1996-Present	1982-1995

Journals by Research Area

ACS journals cover multidisciplinary research at the interface of chemistry and other fields, with content that is relevant to a range of disciplines. This guide is not exhaustive by discipline or research area, and it should only serve as a starting point. Your account manager can provide assistance in selecting a combination of products that will ensure your scientists are always able to access the information they need.

Agriculture and Food Chemistry

Highly Recommended:

Accounts of Chemical Research
ACS Applied Bio Materials
ACS Chemical Health & Safety
ACS Synthetic Biology
Biomacromolecules
Chemical Research in Toxicology
Chemical Reviews
Journal of Agricultural and Food Chemistry
Journal of Proteome Research

Also Valuable:

ACS Macro Letters
ACS Materials Letters
ACS Omega
ACS Pharmacology & Translational Science
ACS Sensors
ACS Sustainable Chemistry & Engineering
Analytical Chemistry
Biochemistry
Environmental Science & Technology
Environmental Science & Technology Letters
Journal of the American Society for Mass Spectrometry
Journal of Natural Products
Macromolecules

Analytical Chemistry

Highly Recommended:

Accounts of Chemical Research
ACS Chemical Health & Safety
ACS Earth and Space Chemistry
ACS Nano
ACS Sensors

Analytical Chemistry
Chemical Reviews
Environmental Science & Technology
Environmental Science & Technology Letters
Journal of Agricultural and Food Chemistry
Journal of the American Society for Mass Spectrometry
Journal of Proteome Research
Nano Letters

Also Valuable:

ACS Applied Electronic Materials
ACS Applied Materials & Interfaces
ACS Applied Nano Materials
ACS Biomaterials Science & Engineering
ACS Central Science
ACS Combinatorial Science
ACS Macro Letters
ACS Materials Letters
ACS Omega
ACS Pharmacology & Translational Science
ACS Sustainable Chemistry & Engineering
Biochemistry
Bioconjugate Chemistry
Biomacromolecules
Chemical Research in Toxicology
Chemistry of Materials
Energy & Fuels
Industrial & Engineering Chemistry Research
Inorganic Chemistry
Journal of the American Chemical Society
The Journal of Organic Chemistry
The Journal of Physical Chemistry A
The Journal of Physical Chemistry B
The Journal of Physical Chemistry Letters
Langmuir
Macromolecules
Organic Letters



ACS journals received more than
3.1 million citations overall in 2017.

Biological and Medicinal Chemistry

Highly Recommended:

Accounts of Chemical Research
 ACS Applied Bio Materials
 ACS Applied Materials & Interfaces
 ACS Applied Polymer Materials
 ACS Biomaterials Science & Engineering
 ACS Central Science
 ACS Chemical Biology
 ACS Chemical Health & Safety
 ACS Chemical Neuroscience
 ACS Combinatorial Science
 ACS Infectious Diseases
 ACS Macro Letters
 ACS Materials Letters
 ACS Medicinal Chemistry Letters
 ACS Nano
 ACS Omega
 ACS Pharmacology & Translational Science
 ACS Sensors
 ACS Synthetic Biology
 Analytical Chemistry
 Biochemistry
 Bioconjugate Chemistry
 Biomacromolecules
 Chemical Research in Toxicology
 Chemical Reviews
 Journal of Chemical Information and Modeling
 Journal of Chemical Theory and Computation
 Journal of Medicinal Chemistry
 Journal of Natural Products
 The Journal of Physical Chemistry B
 The Journal of Physical Chemistry Letters
 Journal of Proteome Research
 Langmuir
 Molecular Pharmaceutics

Also Valuable:

ACS Applied Electronic Materials
 ACS Applied Nano Materials
 ACS Catalysis
 Chemistry of Materials
 Crystal Growth & Design
 Environmental Science & Technology
 Environmental Science & Technology Letters
 Industrial & Engineering Chemistry Research
 Inorganic Chemistry
 Journal of the American Society for Mass Spectrometry
 The Journal of Organic Chemistry
 Macromolecules
 Nano Letters
 Organic Letters
 Organic Process Research & Development
 Organometallics

Catalysis

Highly Recommended:

Accounts of Chemical Research
 ACS Applied Bio Materials
 ACS Applied Energy Materials
 ACS Applied Materials & Interfaces
 ACS Biomaterials Science & Engineering
 ACS Catalysis
 ACS Central Science
 ACS Chemical Health & Safety
 ACS Energy Letters
 ACS Macro Letters
 ACS Omega
 ACS Sustainable Chemistry & Engineering
 Biomacromolecules
 Chemical Reviews
 Chemistry of Materials
 Industrial & Engineering Chemistry Research
 Inorganic Chemistry
 Journal of the American Chemical Society
 Journal of Chemical Theory and Computation
 The Journal of Organic Chemistry
 The Journal of Physical Chemistry C
 The Journal of Physical Chemistry Letters
 Langmuir
 Macromolecules
 Organic Letters
 Organic Process Research & Development
 Organometallics

Also Valuable:

ACS Applied Nano Materials
 ACS Combinatorial Science
 ACS Materials Letters
 ACS Synthetic Biology
 Energy & Fuels
 Environmental Science & Technology
 Environmental Science & Technology Letters
 The Journal of Physical Chemistry A
 The Journal of Physical Chemistry B

Chemical Education

Highly Recommended:

Accounts of Chemical Research
 ACS Chemical Health & Safety
 Chemical Reviews
 Journal of the American Society for Mass Spectrometry
 Journal of Chemical Education

Also Valuable:

ACS Sustainable Chemistry & Engineering

Chemical Engineering and Industrial Chemistry

Highly Recommended:

Accounts of Chemical Research
ACS Applied Polymer Materials
ACS Chemical Health & Safety
ACS Macro Letters
ACS Materials Letters
ACS Omega
ACS Sensors
ACS Sustainable Chemistry & Engineering
ACS Synthetic Biology
Chemical Reviews
Chemistry of Materials
Crystal Growth & Design
Energy & Fuels
Industrial & Engineering Chemistry Research
Journal of Chemical & Engineering Data
Macromolecules

Also Valuable:

ACS Applied Bio Materials
ACS Applied Electronic Materials
ACS Applied Energy Materials
ACS Applied Materials & Interfaces
ACS Applied Nano Materials
ACS Biomaterials Science & Engineering
ACS Catalysis
ACS Nano
Biomacromolecules
Environmental Science & Technology
Environmental Science & Technology Letters
Journal of Agricultural and Food Chemistry
The Journal of Physical Chemistry C
The Journal of Physical Chemistry Letters
Nano Letters
Organic Process Research & Development

Earth, Space, and Environmental Chemistry

Highly Recommended:

Accounts of Chemical Research
ACS Applied Polymer Materials
ACS Chemical Health & Safety
ACS Earth and Space Chemistry
ACS Materials Letters
ACS Omega
ACS Sustainable Chemistry & Engineering
Chemical Reviews
Environmental Science & Technology
Environmental Science & Technology Letters
The Journal of Physical Chemistry A
The Journal of Physical Chemistry Letters

Also Valuable:

ACS Applied Bio Materials
ACS Applied Materials & Interfaces
ACS Biomaterials Science & Engineering
ACS Central Science
ACS Macro Letters
ACS Sensors
Analytical Chemistry

Biomacromolecules
Journal of Chemical Theory and Computation
Journal of Proteome Research
Macromolecules

Energy

Highly Recommended:

Accounts of Chemical Research
ACS Applied Electronic Materials
ACS Applied Energy Materials
ACS Applied Materials & Interfaces
ACS Applied Polymer Materials
ACS Catalysis
ACS Central Science
ACS Chemical Health & Safety
ACS Energy Letters
ACS Macro Letters
ACS Materials Letters
ACS Nano
ACS Omega
ACS Photonics
ACS Sustainable Chemistry & Engineering
Chemical Reviews
Chemistry of Materials
Energy & Fuels
Industrial & Engineering Chemistry Research
Journal of the American Chemical Society
Journal of Chemical Theory and Computation
The Journal of Physical Chemistry C
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Macromolecules
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Also Valuable:

ACS Combinatorial Science
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Biomacromolecules
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Environmental Science & Technology Letters
Inorganic Chemistry
The Journal of Physical Chemistry A
The Journal of Physical Chemistry B
Langmuir
Organometallics



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Inorganic Chemistry

Highly Recommended:

Accounts of Chemical Research
ACS Catalysis
ACS Chemical Health & Safety
ACS Energy Letters
ACS Macro Letters
ACS Omega
Chemical Reviews
Chemistry of Materials
Inorganic Chemistry
Journal of the American Chemical Society
The Journal of Physical Chemistry C
The Journal of Physical Chemistry Letters
Macromolecules
Nano Letters
Organometallics

Also Valuable:

ACS Applied Electronic Materials
ACS Applied Energy Materials
ACS Central Science
ACS Combinatorial Science
ACS Earth and Space Chemistry
ACS Materials Letters
ACS Medicinal Chemistry Letters
Crystal Growth & Design
Energy & Fuels
Environmental Science & Technology
Environmental Science & Technology Letters
Industrial & Engineering Chemistry Research
Journal of Chemical Theory and Computation
Journal of Medicinal Chemistry
The Journal of Organic Chemistry
The Journal of Physical Chemistry A
The Journal of Physical Chemistry B
Organic Letters
Organic Process Research & Development

Materials Science

Highly Recommended:

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 Chemical Health & Safety
ACS Combinatorial Science
ACS Energy Letters
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ACS Sensors
ACS Sustainable Chemistry & Engineering
Biomacromolecules
Chemical Reviews
Chemistry of Materials
Environmental Science & Technology
Environmental Science & Technology Letters
Industrial & Engineering Chemistry Research

Journal of the American Chemical Society
The Journal of Physical Chemistry C
The Journal of Physical Chemistry Letters
Langmuir
Macromolecules
Nano Letters

Also Valuable:

ACS Catalysis
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Crystal Growth & Design
Energy & Fuels
Inorganic Chemistry
The Journal of Organic Chemistry
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Organic Process Research & Development
Organometallics

Nanoscience

Highly Recommended:

Accounts of Chemical Research
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ACS Catalysis
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Chemistry of Materials
Environmental Science & Technology
Environmental Science & Technology Letters
Industrial & Engineering Chemistry Research
Journal of Chemical Theory and Computation
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Langmuir
Macromolecules
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Also Valuable:

ACS Combinatorial Science
ACS Earth and Space Chemistry
Analytical Chemistry
Biochemistry
Chemical Research in Toxicology
Crystal Growth & Design
Inorganic Chemistry
The Journal of Physical Chemistry A
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Organic Chemistry

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Chemistry of Materials
Energy & Fuels
Inorganic Chemistry
Journal of Natural Products
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The Journal of Physical Chemistry Letters
Nano Letters

Organometallic Chemistry

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Physical Chemistry

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Polymer Science

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Macromolecules

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Organometallics

Theoretical and Computational Chemistry

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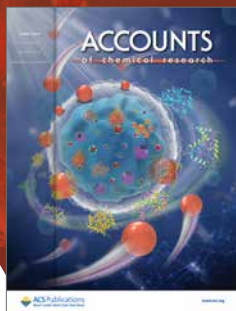
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Inorganic Chemistry
Journal of Chemical & Engineering Data
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Macromolecules
Molecular Pharmaceutics
Nano Letters
Organic Letters
Organometallics

ACCOUNTS

of chemical research



Editor-in-Chief
Cynthia J. Burrows
University of Utah

e-ISSN: 1520-4898
Print ISSN: 0001-4842
Issue 1: January 1968
12 Issues/Year
2018 Impact Factor: 21.661
2018 Citations: 69,687
2018 Articles Published: 321

pubs.acs.org/acr

Concise, Authoritative, and Timely Perspectives in the Molecular Sciences

A Must-Read for Researchers in All Areas of Chemistry and Biochemistry

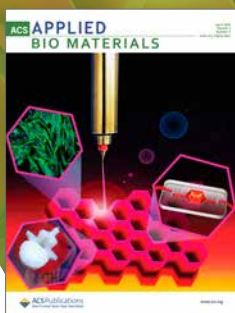
Accounts of Chemical Research presents succinct and critical articles offering easy-to-read overviews of basic research and applications in all areas of chemistry and biochemistry. The journal publishes a unique format called an Account. An Account is focused specifically on the author's own area of research or on providing special insight into a question of significant interest to the community. Topics include research developments in chemistry, biochemistry, materials science, nanoscience, and related fields.

Common Research Areas

- Intermolecular, bond, and reagent interactions
- Selectivity and rate determining factors
- Advanced analytical tools
- Synthesis, properties, and applications of polymer gels
- Material interfaces with structure-forming peptides
- Drug discovery through methods such as inorganic approaches as well as free energy calculations
- Peptides resistant to biological barriers with medicinal uses



Accounts of Chemical Research replaces the traditional abstract with a "Conspetus." These entries synopsise the research, affording a closer look at the content and significance of an article and thereby enhancing the articles' discoverability and exposure.



Editor-in-Chief

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University of Texas
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Chinese Academy
of Sciences

e-ISSN: 2576-6422

Print ISSN: Online Only

Issue 1: July 2018

12 Issues/Year

pubs.acs.org/acsabm

The Most Recent Research in the Field of Functional Biomaterials

Examining the Structure and Function of Developing Materials

ACS Applied Bio Materials is an interdisciplinary journal publishing original research covering all aspects of biomaterials and biointerfaces including and beyond the traditional biosensing, biomedical and therapeutic applications. The journal is devoted to reports of new and original experimental and theoretical research of an applied nature that integrate knowledge in the areas of materials, engineering, physics, bioscience, and chemistry into important bio applications. The journal is specifically interested in work that addresses the relationship between structure and function, and assesses the stability and degradation of materials under relevant environmental and biological conditions.

Common Research Areas

- Biomaterials
- Bioaerosols
- Biocatalysis
- Bioelectronics
- Biofouling and antifouling materials
- Biomimetic materials
- Biomolecular imaging/sensing
- Drug delivery and targeting
- Photodynamic therapy
- Self-healing materials
- Antibacterial/antimicrobial and anticancer materials



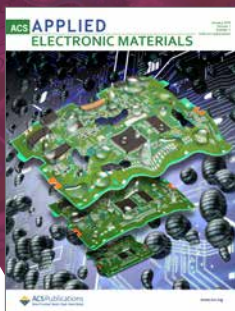
Unique Element

"Bio-related materials, as one of the fastest growing interdisciplinary research areas globally, have emerged at the frontier between biology and materials, engineering, physics or chemistry. It is intensely focused on biological, biomedical, bioinspired and biomimetic materials, in which biological assemblies, mechanisms and functions are taken advantage for the development of novel synthetic materials and devices with advanced structures and functions. A key aspect in the study of bio-related materials is their applications in biosensing, imaging, therapeutics, bioenergy, biocatalysis, bioelectronics, and so on.

It is our intention that *ACS Applied Bio Materials* will serve authors and readers with the most recent breakthrough research dealing with the design of functional bio-related materials and their significant applications."

— Shu Wang, Deputy Editor

ACS APPLIED ELECTRONIC MATERIALS



Editor-in-Chief

Kirk S. Schanze

*University of Texas
at San Antonio*

Deputy Editor

Hyun Jae Kim

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South Korea*

e-ISSN: 2637-6113

Print ISSN: Online Only

Issue 1: January 2019

12 Issues/Year

pubs.acs.org/acsaelm

Exploring New Frontiers in Electronic Materials

A New Resource for Groundbreaking Technology

ACS Applied Electronic Materials is devoted to reports of new and original experimental and theoretical research of an applied nature that integrate knowledge in the areas of materials science, engineering, optics, physics, and chemistry into important applications of electronic materials.

This journal also handles papers that describe theory, modeling, and simulation of electronic materials, synthesis and characterization of electronic materials, micro/nano-electronic fabrication and device materials that have important applications.

Common Research Areas

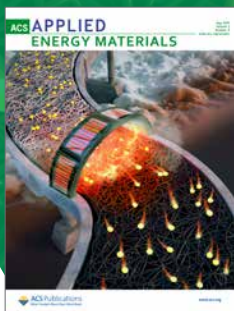
- Magnetic, optoelectronic, piezoelectric, ferroelectric, thermoelectric, and superconducting materials
- Flexible devices
- Soft actuators
- Sensors
- Supercapacitors
- Photonic and plasmonic devices
- Energy storage
- Electromechanical systems

Ue

Unique Element

Deputy Editor Dr. Hyun Jae Kim's applications in the field of applied electronics materials have resulted in numerous patent applications with Samsung in the areas of semiconductor production, networking, control systems, displays, power supplies, and even vehicle operations.

ACS APPLIED ENERGY MATERIALS



Editor-in-Chief

Kirk S. Schanze

*University of Texas
at San Antonio*

Deputy Editor

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e-ISSN: 2574-0962

Print ISSN: Online Only

Issue 1: January 2018

12 Issues/Year

pubs.acs.org/acsaem

Advances in Materials for Energy Devices

A Valuable Resource for Researchers in Energy Fields

ACS Applied Energy Materials will publish broadly in the area of materials for energy generation, storage, conversion, and sustainability. Research will focus on the application of the material or device in a new way, and address either the chemical processes involved in creating the materials or relevant properties of the material produced.

Common Research Areas

- Batteries and supercapacitors
- Electrocatalysis
- Electrochemistry at interfaces
- Fuel cells
- Green and sustainable materials
- Inorganic and organic photovoltaics (including perovskites)
- Layered materials
- Materials for gas separation
- Materials for hydrogen generation and storage
- Self-cleaning materials
- Thermoelectric materials
- Water splitting and photocatalysis

Ue

Unique Element

As we grow more dependent on mobile technology and renewable resources, new materials and applications for generating and storing energy become increasingly important.



e-ISSN: 1944-8252

Print ISSN: 1944-8244

Issue 1: January 2009

51 Issues/Year

2018 Impact Factor: 8.456

2018 Citations: 170,096

2018 Articles Published: 4,890

pubs.acs.org/acsami

Research on Newly Discovered Materials and Interfacial Processes

The International Forum for Applied Materials Science and Engineering

ACS *Applied Materials & Interfaces* is a publication for the interdisciplinary community of chemists, engineers, physicists, and biologists focusing on how newly discovered materials and interfacial processes can be developed and used for specific applications. Topics include active and passive materials, coatings, colloids, biomaterials and interfaces, polymers, hybrid and composite materials, friction, and wear.

Common Research Areas

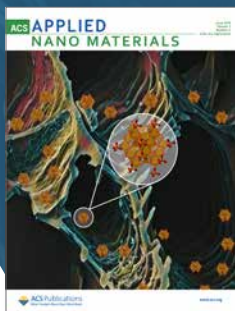
- Biological and medical applications of materials and interfaces
- Energy, environmental, and catalysis applications
- Functional inorganic materials and devices
- Organic electronic devices
- Functional nanostructured materials (including low-d carbon)
- Applications of polymer, composite, and coating materials
- Surfaces, interfaces, and applications

Ue

Unique Element

ACS *Applied Materials & Interfaces* was the first ACS journal to focus on applied science and engineering and has become one of the fastest-growing journals launched in the past decade.

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e-ISSN: 2574-0970
Print ISSN: Online Only
Issue 1: January 2018
12 Issues/Year

pubs.acs.org/acsanm

Exploring Real-World Applications of the Latest Nanotech

A New Journal for In-Demand Applications of the Newest Technology

ACS *Applied Nano Materials* will publish research on functional nanostructured materials, including design, synthesis or fabrication, characterization, and properties of the materials.

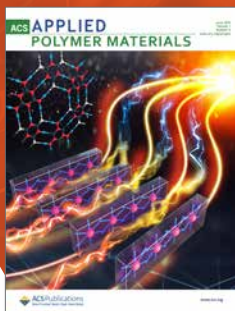
Common Research Areas

- 2D materials
- Carbon nanomaterials (fullerenes, graphenes/graphene oxides, nanotubes, etc.)
- Magnetic materials
- Metal oxides
- Nanoelectronics
- Nanofabrication techniques
- Nanofluidics
- Nanometals
- Nanoprobes
- Plasmonics
- Porous materials (including metal-organic frameworks)
- Quantum dots
- Self-assembly and molecular organization
- Sensors



Two of the top 20 ranked journals on Google Scholar deal with nanotechnology. *ACS Applied Nano Materials* expands ACS' nanotech portfolio into real-world applications.

ACS APPLIED POLYMER MATERIALS



Editor-in-Chief

Kirk S. Schanze

University of Texas
at San Antonio

Deputy Editor

Jodie Lutkenhaus

Texas A&M University

e-ISSN: 2637-6105

Print ISSN: Online Only

Issue 1: January 2019

12 Issues/Year

pubs.acs.org/acsapm

Putting Polymer Science to Work

The Most Influential Applications in All Industries

ACS Applied Polymer Materials is devoted to reports of new and original experimental and theoretical research of an applied nature that integrates knowledge in the areas of materials, engineering, physics, bioscience, polymer science and chemistry into important polymer applications. The journal is specifically interested in work that addresses relationships among structure, processing, morphology, chemistry, properties, and function.

Common Research Areas

- Separations
- Membranes
- Adhesives
- Coatings
- Sensing
- Adaptive and reconfigurable materials
- Electronics and photonics
- Biomaterials
- Composites
- Polymer applications in energy storage and conversion

Ue

Unique Element

ACS Applied Polymer Materials complements not only the ACS suite of applied materials journals but also the fundamental materials science journals, including *Chemistry of Materials*, *Langmuir*, *Biomacromolecules*, *Macromolecules*, *ACS Macro Letters*, *The Journal of Physical Chemistry B*, and *The Journal of Physical Chemistry Letters*.



e-ISSN: 2373-9878
Print ISSN: Online Only
Issue 1: January 2015
12 Issues/Year
2018 Impact Factor: 4.511
2018 Citations: 3,803
2018 Articles Published: 417

pubs.acs.org/biomaterials

Research at the Intersection of Chemistry, Biology, Materials Science, and Engineering

A Publication That Unites Scientific Disciplines

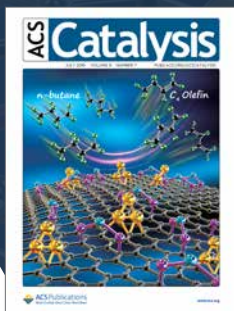
ACS Biomaterials Science & Engineering, led by a distinguished editorial team, publishes original biomaterial research addressing the rapid growth fueled by the biomedical and biotechnology industries. This monthly journal provides a high-quality, broadly scoped forum for this research that is integral to chemistry and other allied fields of study related to chemical sciences.

Common Research Areas

- Modeling and informatics tools for biomaterials
- Synthesis and modulation of new biomaterials
- Bioinspired and biomimetic approaches to biomaterials
- Biomaterial interfaces and interactions
- Health risk studies of biomaterials
- Manufacturing, technology, and tissues in the context of biomaterials
- Bioresponsive biomaterials, bioelectronics, and bioMEMS
- Biomaterial-based devices and prosthetics
- Regenerative medicine, genetic designs, and bioengineering



The global biomaterials market is estimated to reach \$88 billion by 2017, up from \$44 billion in 2012—an annual growth rate of 15%.



e-ISSN: 2155-5435

Print ISSN: Online Only

Issue 1: January 2011

24 Issues/Year

2018 Impact Factor: 12.221

2018 Citations: 55,465

2018 Articles Published: 1,235

pubs.acs.org/catalysis

Preeminent Journal Dedicated to the Best in All Fields of Catalysis Research

A Leader in Homogeneous, Heterogeneous, and Biological Catalysis

Application coverage includes life sciences, drug discovery and development, household products, polymer discovery and production, environmental protection, and energy and fuels. Specifically, the journal includes both original experimental and theoretical research and reviews.

Common Research Areas

- Heterogeneous catalysis
- Molecular catalysis
- Biocatalysis



ACS *Catalysis* achieved the highest first-year Impact Factor of any catalysis journal.



e-ISSN: 2374-7951
Print ISSN: Online Only
Issue 1: March 2015
12 Issues/Year
2018 Impact Factor: 12.837
2018 Citations: 4,160
2018 Articles Published: 173

pubs.acs.org/centralscience

The Premier Open Access Journal from ACS

Groundbreaking Research That's Free to Read, with No Author Fees

ACS *Central Science* publishes breakthroughs in fundamental research that will form a foundation for developments across a broad range of chemistry-related fields, such as biomedicine, energy science, nanotechnology, materials science, and earth and planetary science. The journal also includes a diverse selection of reviews, interviews, and commentary material.

Common Research Areas

- Electrosynthesis
- Drug discovery methods
- Future of metal-organic frameworks
- Multidimensional polymerization with organic framework
- Predictable organic reactions
- Redox catalysis reactions
- Photocatalytic reaction acceleration and standardization
- Nano catalysts
- mRNA imaging, magnetic resonance imaging of tumors

No more than 100–200 articles will be published each year, making the journal fiercely selective.

ACS *Central Science* does not levy any article processing fees on authors. Authors whose papers are selected for publication in ACS *Central Science* receive an ACS AuthorChoice license for immediate open availability at no charge.



ACS *Central Science* goes beyond any other ACS journal in covering a broader expanse of chemistry-related fields. It is a fully Open Access journal, where all articles are freely accessible and with no author publishing fees.



Research at the Intersection of Chemistry and Biology

Exploring Cellular Function from Both Chemical and Biological Perspectives

ACS *Chemical Biology* publishes research in which molecular reasoning has been used to probe questions through in vitro investigations, cell biological methods, or organismic studies. The journal presents unique research in topic areas including proteins, nucleic acids, sugars, lipids, and nonbiological polymers.

Common Research Areas

- Cellular and enzyme inhibition
- Measuring protein interactions
- New protein-labeling technology for cell imaging and protein analysis
- Heteroaromatic sulfones as a new class of biologically compatible selective reagents
- Proteomic profiling of reactive drug metabolites targets
- Induced protein degradation as therapeutic strategy
- Family of small molecules enhances pharmacological effectiveness of antisense
- Regulating kinase activity in human neural cells
- Protein modification level regulation
- Tryptophan-based chromophores



ACS *Chemical Biology* includes an "Introducing Our Authors" section. This provides a medium for authors to add information and context to their publications through podcasts, which are popular among younger audiences.



The Science of Safe Chemistry from Concept to Execution

Good Science Is Safe Science

ACS Chemical Health & Safety is a global journal devoted to recognizing the importance of safety within the chemistry ecosystem. The journal aims to be a forum publishing high quality articles focusing on safety issues of interest to the broad, international chemistry community and the development of safety as a chemistry subdiscipline. To stay abreast of the changing safety landscape, it is critical that all researchers receive access to safety information, regulatory updates, effective chemical hygiene practices, and hazard assessment tools. The journal is specifically interested in new research, topical news, scholarly discussions, educational content, reviews, and case studies.

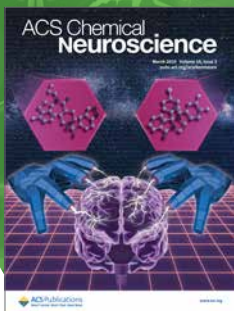
Common Research Areas

- Chemical safety and risk assessment
- Safety education and training
- Security procedures
- Laboratory and chemical storage layout
- Emergency response and planning
- Hazardous materials
- Emerging contaminants
- Regulatory requirements and implementation
- Human factors
- Informative regulatory updates
- Laboratory incidents and lessons learned



A unique addition to the ACS Publications portfolio, *ACS Chemical Health & Safety* will focus on issues that advance chemical health and safety, reinforcing the importance of ethical and responsible professional behavior. *ACS Chemical Health & Safety* aims to serve as a stock exchange where a diverse community of scientists and safety professionals trade and refine ideas.

ACS Chemical Neuroscience



Editor-in-Chief

Craig W. Lindsley

Vanderbilt University School
of Medicine

e-ISSN: 1948-7193

Print ISSN: Online Only

Issue 1: January 2010

24 Issues/Year

2018 Impact Factor: 3.861

2018 Citations: 5,238

2018 Articles Published: 290

pubs.acs.org/chemneuro

Investigating Molecular Mechanisms in Neuroscience

Squarely at the Intersection of Chemistry and Neurobiology

ACS Chemical Neuroscience publishes high-quality research articles and reviews that showcase chemical, quantitative biological, biophysical, and bioengineering approaches to the understanding of the nervous system and to the development of new treatments for neurological disorders. Research in the journal focuses on aspects of chemical neurobiology and bioneurochemistry such as neuropharmaceuticals, therapeutics, disease detection, mechanistic insights, and imaging technology, among others.

Common Research Areas

- Neurotransmitters and receptors
- Neuropharmaceuticals and therapeutics
- Neural development: plasticity and degeneration
- Chemical, physical, and computational methods in neuroscience
- Neuronal diseases: basis, detection, and treatment
- Mechanism of aging, learning, memory, and behavior
- Pain and sensory processing
- Neurotoxins
- Neuroscience-inspired bioengineering
- Development of methods in chemical neurobiology
- Neuroimaging agents and technologies
- Animal models for central nervous system diseases
- Behavioral research



ACS Chemical Neuroscience periodically highlights important areas of research interest through special issues. Recent topics include monitoring molecules in neuroscience, serotonin, and Alzheimer's disease.



Combinatorial and Evolutionary Methods to Discover and Optimize Molecular Function

A Leader in Combinatorial and High-Throughput Studies

ACS *Combinatorial Science* publishes research describing the development and use of combinatorial, high-throughput, and related methods in chemistry, materials science, and biology. Topics include molecular synthesis and screening, biological and bioinspired development of molecular function, molecular systems exhibiting feedback and evolution, combinatorial synthesis and testing of polymers and materials, parallel operations and engineering, robotics and automation, and analytical and computational methods, among many others.

Common Research Areas

- Discovery and optimization of biologically active compounds
- Combinatorial synthetic chemistry
- High-throughput and novel assays and analytical techniques
- Combinatorial and high-throughput discovery and optimization of new materials
- Directed evolution of proteins and nucleic acids
- Tools and techniques for molecular evolution
- Use of evolving biological systems and organisms for molecular function
- Robotics and microfluidic technologies
- Theoretical and computational tools supporting combinatorial and high-throughput research



ACS *Combinatorial Science* Editor-in-Chief M. G. Finn is a professor and chair of the School of Chemistry and Biochemistry at Georgia Institute of Technology. He studied under Nobel Laureate K. Barry Sharpless at Massachusetts Institute of Technology.

ACS EARTH AND SPACE CHEMISTRY



Editor-in-Chief

Joel D. Blum

University of Michigan

e-ISSN: 2472-3452

Print ISSN: Online Only

Issue 1: March 2017

12 Issues/Year

2018 Impact Factor: 2.243

2018 Citations: 235

2018 Articles Published: 126

pubs.acs.org/acsearthspacechemistry

Exploring Chemistry, from Earth to the Cosmos

Exploring the Chemistry of Earth, Atmosphere, Ocean, and Space

ACS *Earth and Space Chemistry* addresses the application of analytical, experimental, and theoretical chemistry to investigate research questions relevant to Earth and space. The journal explores important topics with practical consequences, such as climate change, sustainability of soil and water resources, exploration for natural resources, and changes in atmospheric and ocean chemistry.

Common Research Areas

Earth Interior

- Mineral-melt phase equilibria, partitioning, and kinetics
- Mineralogy and mineral physics
- Igneous and metamorphic petrology, petrogenesis, and geochronology

Earth Surface

- Mineral-microbe-water reactions, thermodynamics, and kinetics
- Reactive transport modeling and colloid transport
- Multiscale science and scaling of geochemical and biogeochemical reactions

Atmosphere

- Atmospheric composition and reaction pathways
- Chemistry-climate interactions
- Biogeochemical cycles

Ocean

- Chemical fluxes and marine trace-element chemistry
- Effects of global change on marine chemistry and the cryosphere
- Chemistry of the paleoenvironment

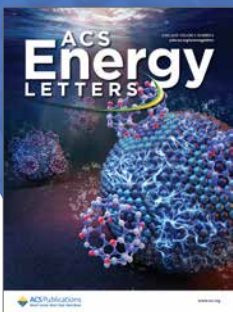
Space

- Chemistry of planetary atmospheres and surfaces
- Investigations of meteorites and tektites
- Properties of cometary and interstellar materials
- Spectroscopy and chemistry of stars, interstellar clouds, and planetary formation

Ue

Unique Element

Editor Joel D. Blum's work has been recognized with awards from the Geochemical Society, the Sloan Foundation, and the National Science Foundation, among others.



e-ISSN: 2380-8195

Print ISSN: Online Only

Issue 1: July 2016

12 Issues/Year

2018 Impact Factor: 16.331

2018 Citations: 10,134

2018 Articles Published: 374

pubs.acs.org/acseneryletters

Rapid Publication of Energy Capture, Conversion, Storage, and More

Accelerating the Speed of Energy Research

ACS Energy Letters has interdisciplinary appeal to experimentalists, computational and theoretical chemists, and energy device makers who seek to gain insights into new energy advances. In addition to original research letters, the interdisciplinary journal includes perspectives from prominent researchers, reviews on emerging areas of interest, and viewpoints from the scientific community. ACS Energy Letters publishes papers that report new scientific advances in all aspects of energy research.

Common Research Areas

- Energy materials, light-harvesting assemblies
- Energy conversion processes (catalysis and photocatalysis)
- Solar fuels (hydrogen production, carbon dioxide reduction)
- Inorganic, organic, and hybrid photovoltaics
- Photosynthesis and biofuels
- Fuel cells, storage batteries, and supercapacitors
- Plasmonics, OLEDs, and light display systems
- Tandem devices, piezoelectric and thermoelectric processes

The highest
Impact Factor in
Electrochemistry

Ue

Unique Element

ACS Energy Letters is led by Editor-in-Chief Prashant Kamat, former Deputy Editor of *The Journal of Physical Chemistry Letters*, where he helped it become the highest Impact Factor journal in Physics, Atomic, Molecular & Chemical in its first 5 years of publication.



e-ISSN: 2373-8227
 Print ISSN: Online Only
 Issue 1: January 2015
 12 Issues/Year
 2018 Impact Factor: 4.911
 2018 Citations: 1,459
 2018 Articles Published: 161

pubs.acs.org/infectious

The First Journal Focused on the Role of Chemistry in Infectious Disease

The Basic Science That Lays a Foundation for Clinical Advances

ACS Infectious Diseases publishes research focused on infectious diseases, with a strong emphasis on the basic science that advances the field and lays the foundation for the clinical sciences. This uniquely focused journal provides a top-quality forum for the publication of novel findings relating to microbes, from molecular biology to therapeutics, with particular emphasis on the chemical interface between the microbe and its host.

Common Research Areas

- Molecular mechanisms of pathogenesis
- Assessment of potential drug targets and physicochemical basis for cellular penetration of anti-infectives
- Mechanistic investigations of antimicrobial resistance
- Vaccines and adjuvants
- Structural, physical, or computational investigations of epitope binding
- Diagnostics and diagnostic targets
- Delivery of antimicrobial agents



ACS Infectious Diseases aims to bridge the gap between chemistry and the biology of infectious diseases to develop new diagnostics and targeted therapeutics.

ACS Macro Letters



Editor-in-Chief

Stuart J. Rowan

The University of Chicago

e-ISSN: 2161-1653

Print ISSN: Online Only

Issue 1: January 2012

12 Issues/Year

2018 Impact Factor: 5.775

2018 Citations: 9,573

2018 Articles Published: 262

pubs.acs.org/macroletters

Rapid Communications in Soft Matter Sciences

Highest-Impact, Fastest-Communication Medium in Polymer Science and Engineering

ACS Macro Letters is the publication complement to *Macromolecules*, the most cited journal in polymer chemistry. ACS Macro Letters publishes highly valuable research that helps scientists and engineers be the first to leverage discoveries in polymer and materials science to solve challenges in biomedicine, energy, sustainability, and beyond.

Common Research Areas

- Nanotechnology
- Self-assembly
- Supramolecular chemistry
- Biomaterials
- Energy generation and storage
- Renewable/sustainable materials

Ue

Unique Element

ACS Macro Letters boasts an impressive speed to publication of fewer than 7 weeks from submission to publication. It is also the highest-impact journal publishing polymer science communications.



At the Forefront of Fundamental and Applied Materials Research

A Forum for Cutting-Edge and Urgent Results

ACS Materials Letters publishes high quality and urgent contributions on the forefront of fundamental and applied research, at the interface between materials and other disciplines, such as chemistry, engineering, and biology. *ACS Materials Letters* is dedicated to publishing the most transformative materials research with very fast processing times. Journal editors and staff routinely attend major scientific conferences and closely engage with readers and authors.

Common Research Areas

- Design, synthesis, characterization, and evaluation of forefront and emerging materials
- Understand structure, property, performance relationships and their underlying mechanisms
- Develop materials for energy, environmental, biomedical, electronic, and catalysis applications



"Materials chemistry continues to rapidly grow in a diverse range of areas. We envision *ACS Materials Letters* to become an ideal home for transformative materials research that has broad and profound impacts on energy, environmental, and biomedical fields. We look forward to seeing contributions that showcase multidisciplinary and innovative materials research addressing global challenges."
- Bin Liu, Deputy Editor



e-ISSN: 1948-5875
Print ISSN: Online Only
Issue 1: April 2010
12 Issues/Year
2018 Impact Factor: 3.737
2018 Citations: 5,475
2018 Articles Published: 212

pubs.acs.org/acsmchemlett

Rapid Publication of Essential Research Impacting Medicine

Helping Researchers Design, Optimize, and Evaluate Biologically Active Substances

ACS Medicinal Chemistry Letters provides researchers with critical and timely research in the area of drug discovery and evaluation. ACS Medicinal Chemistry Letters is one of the most trusted and cited sources of information for understanding mechanisms underlying drug disposition and response, staying current on recent clinical candidates, learning methods for enhancing drug design, translating medicinal chemistry into the clinic, identifying new targets, and evaluating computer-aided methodologies.

Common Research Areas

- Assessment of lead biologically active molecules and drugs
- Biological characterization of new molecular entities
- Identification and SAR analysis of bioactive molecules, ligands, and their targets
- Novel and improved methodologies, including radiation biochemistry
- Discovery technologies for biologically active molecules
- Pharmacokinetic/pharmacodynamic mechanism studies
- Pharmacogenetic and pharmacogenomic enhancement studies
- Mechanistic drug metabolism and regulation of metabolic enzyme gene expression



ACS Medicinal Chemistry Letters also publishes Viewpoints, expert commentary on emerging topics, and Patent Highlights, short summaries of high-interest patents with commentary on potential impact.

ACS NANO



Editor-in-Chief

Paul S. Weiss

University of California,
Los Angeles

e-ISSN: 1936-086X

Print ISSN: 1936-0851

Issue 1: August 2007

12 Issues/Year

2018 Impact Factor: 13.903

2018 Citations: 152,659

2018 Articles Published: 1,290

pubs.acs.org/acsnano

Global Forum for the Most Important Comprehensive Articles in Nano Research

Defining Nanoscience and Nanotechnology

ACS Nano offers thorough reviews, perspectives on cutting-edge research, conversations with nanoscience and nanotechnology thought leaders, and discussions of topics that provide distinctive views about the future of nanoscience and nanotechnology from around the world.

Common Research Areas

- Synthesis, assembly, characterization, theory, and simulation of nanostructures
- Nanomaterials and assemblies, nanodevices, and self-assembled structures
- Nanobiotechnology
- Nanofabrication
- Methods and tools for nanoscience and nanotechnology
- Self-assembly and directed assembly



Google Scholar ranks ACS Nano #1 in Nanotechnology, #2 in Engineering & Computer Science, #2 in Materials Engineering, and #15 of all journals in all fields.



A Fully Open-Access Journal Committed to Rapid Publication and High-Quality Peer Review

Broad Scope and Global Reach

ACS *Omega* has a broad, multidisciplinary scope that spans the research areas covered by the more than 60 ACS Publications journals and beyond. The journal focuses its editorial decisions on the research itself, not on a perceived evaluation of immediate impact. It publishes high-quality new findings, studies that demonstrate reproducibility of existing research, large data sets, and noteworthy negative results.

Common Research Areas

- Agriculture and Food Chemistry
- Biochemistry
- Catalysis
- Chemical Biology
- Chemical Engineering
- Energy Research
- Environmental, Green, and Sustainable Chemistry
- Geochemistry
- Industrial Chemistry
- Materials Science
- Medicinal Chemistry
- Nanoscience
- Pharmaceuticals
- Pharmacology
- Physical Chemistry
- Sensors

The cost to publish in ACS *Omega* is highly competitive. Discounts are provided to authors from countries that rank low or middle on the World Bank classifications.



ACS *Omega* uses the same thorough editorial and peer-review processes as all ACS journals but makes decisions based on rigorous scientific quality rather than subjective opinions of a paper's importance.

ACS Pharmacology & Translational Science



Editor-in-Chief
Patrick M. Sexton
Monash University

e-ISSN: 2575-9108
Print ISSN: Online Only
Issue 1: September 2018
6 Issues/Year

pubs.acs.org/ptsci

A Better Bridge between Lab & Life

Publishing the Science that Happens between Basic Research and Clinical Trials

ACS Pharmacology & Translational Science publishes high-quality, innovative research across the broad spectrum of biological sciences, from basic and molecular sciences to translational preclinical studies. Editors also consider clinical studies that address novel mechanisms of action and methodological papers that provide innovation and advance translational research.

Common Research Areas

- Chemotherapy and cancer therapy
- Predictive and personalized medicine
- Biochemical and molecular pharmacology
- Cardiovascular pharmacology
- Gastrointestinal pharmacology
- Clinical studies (with novel mechanisms of action)
- Respiratory and urogenital tract pharmacology
- Pharmacology of tissue repair
- Neuropharmacology, psychopharmacology, and neuroendocrinology
- Immunopharmacology and immunotherapy
- Pharmacology of aging
- Cell, tissue, and gene therapy
- Regenerative medicine
- Theranostics



Translational science—also known as translational medicine or translational research—focuses on expediting discovery of new diagnostics, treatments, and tools by using a highly collaborative, multidisciplinary approach of bringing research from lab to life. With this journal, ACS supports turning cutting-edge basic research into products that improve human health.



e-ISSN: 2330-4022
Print ISSN: Online Only
Issue 1: January 2014
12 Issues/Year
2018 Impact Factor: 7.143
2018 Citations: 9,956
2018 Articles Published: 649

pubs.acs.org/photronics

Catalyzing the Future of Optical Science and Technology

Uniting the Scientific Disciplines

The expanding field of photonics caters to a large, interdisciplinary, and international community, spanning primary scientific disciplines such as chemistry, physics, biology, and engineering. *ACS Photonics* gives readers a comprehensive picture of the most important discoveries in photonics. Discoveries published in *ACS Photonics* help advance technology in sectors as diverse as information and communication, healthcare and life science, the electronics and display industry, and security and sensors.

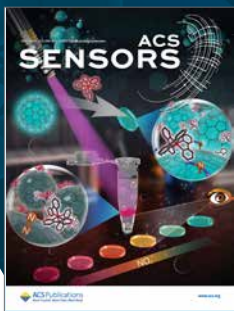
Common Research Areas

- Molecular and nano-photonics
- Solid state inorganic materials for optoelectronics
- Polymer and organic optoelectronic materials
- Plasmonics and optical metamaterials
- Photonic crystals
- Mesoscale photonics and optoelectronics
- Nonlinear optics and materials
- Quantum optics and single-photon processes
- Flexible electronics and displays
- Silicon photonics
- Optical switching, memory, and data storage
- Lasers, quantum electronics, and optical amplifiers
- LEDs and solid-state lighting
- Photonics for energy materials
- Biophotonics
- Micro- and nano-optoelectromechanical systems
- Modeling and simulation of photonic processes



Editor-in-Chief Harry Atwater was named a 2018 Clarivate Analytics Highly Cited Researcher in Physics, an honor given to some of the world's most influential scientific minds.

ACS SENSORS



Editor-in-Chief
J. Justin Gooding

*The University of
New South Wales*

e-ISSN: 2379-3694

Print ISSN: Online Only

Issue 1: January 2016

12 Issues/Year

2018 Impact Factor: 6.944

2018 Citations: 3,439

2018 Articles Published: 310

pubs.acs.org/acssensors

Advancing Chemical and Biological Sensor Research

Chemistry-Focused Sensor Research from the Most Trusted Source

ACS *Sensors* is a peer-reviewed research journal devoted to the dissemination of new and original knowledge on all aspects of sensor science that selectively sense chemical or biological species or processes. Articles cover a broad array of related topics, including biosensors, intracellular sensors, arrays, and microfluidic devices.

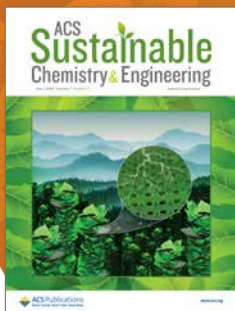
Common Research Areas

- Biosensors
- Chemical sensors
- Gas sensors
- Intracellular sensors
- Single-molecule sensors
- Cell chips
- Arrays
- Microfluidic devices



Editor-in-Chief J. Justin Gooding is internationally recognized for his work in surface modification, biosensors, functional nanomaterials, cell-based diagnostic devices, and electroanalysis.

ACS Sustainable Chemistry & Engineering



Editor-in-Chief

David T. Allen

University of Texas at Austin

e-ISSN: 2168-0485

Print ISSN: Online Only

Issue 1: January 2013

52 Issues/Year

2018 Impact Factor: 6.970

2018 Citations: 24,768

2018 Articles Published: 1,856

pubs.acs.org/acssce

Improving Green Chemistry and Sustainable Processes

Covering the Breadth of the Field

ACS Sustainable Chemistry & Engineering publishes studies that address challenges of sustainability in the chemical enterprise. Articles benefit readers by establishing correlations between their research and the principles of green chemistry and engineering. The journal emphasizes five focal areas of research.

Common Research Areas

- Green chemistry
- Green manufacturing and engineering
- Biomass or wastes as resources
- Alternative energy
- Life-cycle assessment



Editor-in-Chief David T. Allen is the Melvin H. Gertz Regents Chair and Professor in Chemical Engineering as well as the Director of the Center for Energy and Environmental Resources at the University of Texas at Austin.

ACS Synthetic Biology



Editor-in-Chief
Christopher A. Voigt
*Massachusetts Institute
of Technology*

e-ISSN: 2161-5063
Print ISSN: Online Only
Issue 1: January 2012
12 Issues/Year
2018 Impact Factor: 5.571
2018 Citations: 4,890
2018 Articles Published: 305

pubs.acs.org/synthbio

Cutting-Edge Forum in Synthetic Biology and Systems Bioscience

Publishing Results of Important Studies in Molecular, Systems, and Synthetic Research

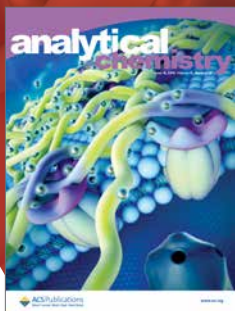
ACS Synthetic Biology publishes high-quality research that demonstrates integrative, molecular approaches enabling better understanding of the organization and function of cells, tissues, and organisms in systems. The journal also contains studies related to the design and synthesis of new genetic circuits and gene products, computational methods in the design of systems, and integrative applied approaches to understanding disease and metabolism.

Common Research Areas

- Design and optimization of genetic systems
- Genetic circuit design and principles for their organization into programs
- Computational methods to aid the design of genetic systems
- Experimental methods to quantify genetic parts, circuits, and metabolic fluxes
- Genetic parts libraries: their creation, analysis, and ontological representation
- Protein engineering, including computational design



Discoveries in *ACS Synthetic Biology* help scientists engineer biological systems improve our lives. For example, scientists programmed one type of bacteria to help cure a patient of another, more serious infection. *ACS Synth. Biol.*, **2014**, *3*, 228–237. DOI: 10.1021/sb400077j



High Impact and Highly Cited in Analytical Chemistry

New and Exciting Research in All Branches of Analytical Chemistry

Analytical Chemistry publishes unique research in all branches of analytical chemistry, including features and news articles about major advances, trends, and challenges in the field. Coverage includes any phase of analytical measurements and concepts thereof, including but not limited to sampling, bioanalysis, electrochemistry, mass spectrometry, microscale and nanoscale systems, surface analysis, and data processing. Analytical Chemistry is a staple journal for scientists working in security, food science, art history, forensics, archaeology, nanoscience, and many other fields.

Common Research Areas

- Sampling
- Bioanalysis
- Electrochemistry
- Mass spectrometry
- Microscale and nanoscale systems and structures
- Environmental analysis
- Separations
- Spectroscopy
- Chemical reactions and selectivity
- Instrumentation
- Imaging
- Surface analysis
- Data processing



Ue

Unique Element

Analytical Chemistry captured 133,005 total citations in 2018 and secured its leading position as the most cited journal in the field.

Biochemistry

Editor-in-Chief

Alanna Schepartz

University of California,
Berkeley



e-ISSN: 1520-4995

Print ISSN: 0006-2960

Issue 1: January 1962

51 Issues/Year

2018 Impact Factor: 2.952

2018 Citations: 74,080

2018 Articles Published: 703

pubs.acs.org/biochemistry

Leader in Biochemistry, Biophysical Chemistry, and Molecular Biology

At the Interface of Biology and Chemistry

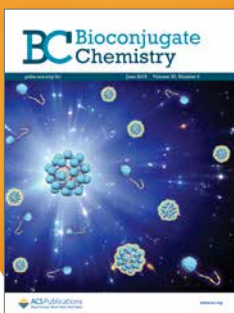
Biochemistry publishes research from the arena where biochemistry, biophysical chemistry, and molecular biology meet. *Biochemistry* is a premier multidisciplinary journal dedicated to serving the needs of the global community engaged in understanding the mechanisms of biological phenomena in terms of molecular structure and function. It is especially strong in the fields of structural biology, mechanistic enzymology, chemistry of proteins and nucleic acids, photosynthesis, membranes and membrane proteins, amyloid structure and chemistry, and functional genomics.

Common Research Areas

- > Peptide modifications
- > Protein-interaction identification
- > Selective imaging of different microbiota
- > Bacterial mechanics
- > Exploring electrophile capabilities
- > New and updated relevant chemistry
- > Protein engineering
- > Disease-causing RNA repeat expansions
- > In-depth imaging biology
- > Debunking the mysteries of RNA
- > Rosetta protein modeling
- > DNA duplexes and recognition



Recent research by Editor-in-Chief Alanna Schepartz illuminating molecular flow across cell membranes may have important implications in cancer treatment.



Cutting-Edge Forum in Conjugation Chemistry and Biochemistry

Essential Research for the Integration of Synthetic and Biological Systems

Bioconjugate Chemistry publishes articles, communications, reviews, and comments on all research at the interface between man-made and biological materials. Scientists working in the fields of drug delivery, bionanotechnology, and the covalent modification of biologics rely heavily on *Bioconjugate Chemistry*. Manuscripts cover all aspects of bioconjugates, including the preparation, properties, and applications of molecular conjugates.

Common Research Areas

- Versatile protein reaction
- Antibody preparation and protein detection
- Prostate cancer imaging by fluorescent probes
- Cell-penetrating peptides with cyclic amino acids
- Bioluminescence
- Systemic anticancer drug delivery
- Enhancing antitumor immunotherapy
- Biomedical applications with HaloTag technology
- Progress and challenges of CRISPER/Cas9
- Bioorthogonal chemistry, protein engineering, and drug development



Bioconjugate Chemistry periodically highlights important areas of research interest through special issues. Recent topics include molecular imaging probe chemistry and antibody–drug conjugates.

BioMACROMOLECULES



Editor-in-Chief

Ann-Christine Albertsson

*Royal Institute of
Technology, Sweden*

e-ISSN: 1526-4602

Print ISSN: 1525-7797

Issue 1: March 2000

12 Issues/Year

2018 Impact Factor: 5.667

2018 Citations: 37,954

2018 Articles Published: 437

pubs.acs.org/biomac

Highest-Impact Journal Combining Polymer Science and Biology

Uniquely Positioned at the Intersection of Polymer Science and Biology

Biomacromolecules publishes interdisciplinary investigations exploring the interactions of macromolecules with biological systems and their environments, as well as biological approaches to the design of polymeric materials. Topics include sustainable chemistry, monomers and polymers based on natural and renewable resources, polymer degradation, polymer conjugates, biocatalysis, biomolecular assembly, and biorecycling.

Common Research Areas

- Sustainable polymers
- Polymers based on natural and renewable resources
- Degradable polymers, polymer conjugates
- Polymeric drugs
- Polymers in biocatalysis
- Biomacromolecular assembly
- Biomimetic polymers
- Polymer-biomineral hybrids
- Biomimetic-polymer processing
- Polymer recycling
- Bioactive polymer surfaces
- Original polymer design for biomedical applications such as immunotherapy, drug delivery, gene delivery, antimicrobial applications, diagnostic imaging and biosensing
- Polymers in tissue engineering and regenerative medicine
- Polymeric scaffolds and hydrogels for cell culture and delivery



Biomacromolecules publishes the free Polymer Science podcast series, along with *Macromolecules* and *ACS Macro Letters*, featuring audio highlighting articles and news pieces published in the journals.

Chemical Research in Toxicology®



Editor-in-Chief
Shana J. Sturla
ETH Zurich

e-ISSN: 1520-5010
Print Edition ISSN: 0893-228X
Issue 1: January 1988
12 Issues/Year
2018 Impact Factor: 3.274
2018 Citations: 11,884
2018 Articles Published: 152

pubs.acs.org/crt

Focused on Understanding the Effects of Toxic Agents

Advancing Understanding of the Impact of Chemical and Biological Agents on Ecosystems and Human Health

Chemical Research in Toxicology publishes research on a wide range of toxicology topics that inform a chemical and molecular understanding and capacity to predict biological outcomes on the basis of structures and processes. The overarching goal is to provide the knowledge and innovative approaches necessary to promote intelligent solutions for human safety and ecosystem preservation. The journal emphasizes insight concerning mechanisms of toxicity over phenomenological observations.

Common Research Areas

- Molecular mechanisms of the cellular responses to toxic agents
- Alterations in global cellular constituents
- Repair of damaged cellular constituents
- Alterations in gene transcription/translation
- Induction of genetic mutations
- Activation/inactivation of stress responses
- Cell cycle arrest, apoptosis, or necrosis
- Cellular responses to toxic agents affecting the intact organism
- Development and application of new methodologies



Chemical Research in Toxicology publishes Rapid Reports—brief, expedited manuscripts on timely topics of unusually high interest—as well as Perspectives on Statistical Trends, which are brief discussions on emerging issues in the field.

CHEMICAL REVIEWS



Editor-in-Chief
Sharon Hammes-Schiffer
Yale University

e-ISSN: 1520-6890
Print ISSN: 0009-2665
Issue 1: April 1924
24 Issues/Year
2018 Impact Factor: 54.301
2018 Citations: 188,635
2018 Articles Published: 222

pubs.acs.org/cr

Comprehensive, Timeless, and Timely Reviews on Topics of Current Interest in Chemistry

Most Highly Regarded Journal in General Chemistry

Chemical Reviews is one of the most highly regarded and highest-ranked journals covering the general topic of chemistry. The journal presents comprehensive, authoritative, critical, and readable reviews of important research in all areas of chemistry. These reviews also play a significant educational role for early-career scientists and researchers entering new fields.

**The highest
Impact Factor in
Multidisciplinary
Chemistry**

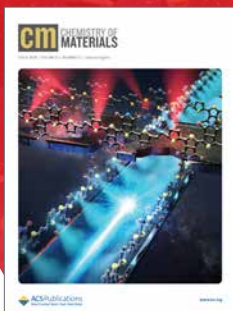
Common Research Areas

- Nanoparticles in solution
- Advances in nanomaterials and radical activation/cross-coupling
- Organocatalysis
- 3D printing with polymers
- Greener production of formate/formic acid, methanol, and DME
- Recognizing anions
- Flow chemistry
- Biomedical applications of graphene and graphene oxide
- Optimization of artificial metalloenzymes
- Eutectic solvent applications

Ue

Unique Element

Since 1985, *Chemical Reviews* has published periodic thematic issues focusing on a single theme or direction of emerging research, helping facilitate serendipitous discovery.



The Long-Time Leader in Materials Chemistry

High-Impact Research at the Intersection of Chemistry, Chemical Engineering, and Materials Science

Chemistry of Materials remains a highly cited, high-impact leader that is unique in its emphasis on the chemical component of materials science. In addition to traditional topics in materials science, *Chemistry of Materials* publishes articles on fundamental issues relating to the fabrication and processing of electronic, magnetic, or optical materials and devices, including the generation of thin films by chemical vapor and solution deposition and by self-organized molecular assemblies.

Common Research Areas

- Inorganic and organic solid-state chemistry
- Polymer chemistry
- Fabrication and processing of electronic, magnetic, or optical materials and devices
- Generation of thin films by chemical vapor and solution deposition
- Design, synthesis, investigation, and application of precursors to solid-state inorganic materials
- Preparation and study of biomaterials, nanomaterials, composites, catalysts, liquid crystals, coatings, thin films and interfaces, and molecular assemblies



Professor Buriak is one of the ACS editors behind the virtual issue and webinar series "Mastering the Art of Scientific Publication."

CRYSTAL GROWTH & DESIGN



Editor-in-Chief *

Robin D. Rogers

525 Solutions, Inc.

e-ISSN: 1528-7505

Print ISSN: 1528-7483

Issue 1: January 2001

12 Issues/Year

2018 Impact Factor: 4.153

2018 Citations: 29,940

2018 Articles Published: 875

pubs.acs.org/cgd

*Expected change in editorial leadership, Jan 2020

Pioneering Research in Understanding and Applications of the Crystalline State

Inspiring New Ideas Across Diverse Communities

Crystal Growth & Design is the flagship publication for the crystal science and crystal engineering community. It stimulates cross-fertilization of knowledge among scientists and engineers working in the fields of crystal growth, crystal engineering, and the industrial application of crystalline materials. Unlike similar journals, *Crystal Growth & Design* covers fields such as chemistry, chemical engineering, materials, and physics, as well as many other fields that use the same techniques but view the science differently.

**Most cited
journal in
Crystallography**

Common Research Areas

- Crystal engineering
- Crystal growth of inorganic, organic, and biological substances
- Polymorphism, polytypism
- Development of new nanostructured phases
- Intermolecular interactions in the solid state
- Modeling of crystal growth processes
- Prediction of crystal structure and crystal habit
- Determination and calculation of electronic distribution in the solid state
- Nucleation theory
- Molecular kinetics and transport phenomena in crystal growth
- Phase transitions
- Solvation and crystallization phenomena
- Modeling of crystallization processes
- Purification techniques
- Industrial crystallization

Ue

Unique Element

Though not considered a crystallography journal, *Crystal Growth & Design* is the most cited journal in Crystallography according to the 2017 Clarivate Analytics Journal Citation Reports®.

energy&fuels



Editor-in-Chief*

Michael T. Klein

University of Delaware

e-ISSN: 1520-5029

Print ISSN: 0887-0624

Issue 1: January 1987

12 Issues/Year

2018 Impact Factor: 3.021

2018 Citations: 44,127

2018 Articles Published: 1,285

pubs.acs.org/ef

*Expected change in editorial leadership, Jan 2020

Defining the Intersection of Chemistry and Chemical Engineering

Serving the Growing Community of Scientists, Engineers, and Policy Experts

Energy & Fuels publishes reports of research in the non-nuclear domain. This includes research directed at the formation of, exploration for, and production of fossil fuels and biomass; the properties and structure or molecular composition of both raw fuels and refined products; the chemistry involved in the processing and use of fuels; fuel cells and their applications; catalysis; combustion; and the analytical and instrumental techniques used in these areas. Scientists leverage the content in *Energy & Fuels* to design solutions for quenching the world's increasing thirst for sustainable, efficient, and environmentally friendly energy.

Common Research Areas

- Eutectic solvent applications
- Hydroxide-based ionic liquids for acid extraction
- Development of pyrolysis reactors and application for bio-oil
- Biomass fast pyrolysis oil
- Implications of hydroprocessing catalysts with noble metals
- Molecular dynamics for asphaltene aggregation
- Biomass conversion to biofuel
- Proton-exchange membrane fuel cells
- Life-cycle greenhouse gases vs. natural gas pathways



Energy & Fuels has the fastest time to publication in its field.

ENVIRONMENTAL Science & Technology



Editor-in-Chief *

David L. Sedlak

University of California, Berkeley

e-ISSN: 1520-5851

Print ISSN: 0013-936X

Issue 1: January 1967

24 Issues/Year

2018 Impact Factor: 7.149

2018 Citations: 173,191

2018 Articles Published: 1,501

pubs.acs.org/est

*Expected change in editorial leadership, Jan 2020

The Essential Resource in Environmental Sciences and Engineering

The Most Authoritative Source in Its Field

Environmental Science & Technology is the authoritative source of information for professionals in a wide range of environmental disciplines—from the scientist to the policy maker. The types of papers published include research articles, policy analysis, critical review, and correspondence. Common areas of focus include global change, water quality, phytoremediation, and carbon sequestration.

**Most cited in
Environmental
Sciences and
Environmental
Engineering**

Common Research Areas

- Microplastics
- Removal of organic wastewater compounds
- Air pollution mapping with Google cars
- Trends of freshwater fish mercury concentrations
- Microbes and nitrogen
- Water concerns in developing countries
- 2D molybdenum disulfide environmental applications
- Effect of food choices on climate
- Li-ion batteries impacts
- Microbeads
- Livestock necessities in China

Ue

Unique Element

The News and Features section of *Environmental Science & Technology* presents objective reports and analyses of the major advances, trends, and challenges in environmental science, technology, and policy for a diverse professional audience.

ENVIRONMENTAL Science & Technology LETTERS



Editor-in-Chief*

David L. Sedlak

University of California, Berkeley

Deputy Editor

Bruce Logan

Penn State University

e-ISSN: 2328-8930

Print ISSN: Online Only

Issue 1: January 2014

12 Issues/Year

2018 Impact Factor: 6.934

2018 Citations: 2,531

2018 Articles Published: 121

pubs.acs.org/estlett

*Expected change in editorial leadership, Jan 2020.

An International Environmental Forum for Rapid Communications

Publishing Brief Communications and Short Reviews in 4–6 Weeks

Complementing *Environmental Science & Technology*, the most cited journal in two categories, *Environmental Science & Technology Letters* meets the scientific community's increasing demand for rapid publication of short, urgent environmental letters. Common areas of publication include energy; environmental aspects of emerging technology, like nanotechnology; analytical methods; and novel remediation technology.

Common Research Areas

- Reductions in solar energy production
- Chemical air emissions
- Lead release from service lines
- Chemicals in swimming pools and hot tubs
- Biofilm formation and microplastic impacts on aquatic environments
- Microbial fuel cell configurations
- Fluorine in food packaging
- Exoelectrogenic bacteria
- Unexpected nanoplastics
- Sustainable seawater desalination

Ue

Unique Element

ES&T Letters was the first to report that eco-friendly packaging could be contaminating our compost products. Per- and polyfluoroalkyl substances, or PFAS, are often used to line paper-based food packaging and are leaching out during the degradation process. DOI: 10.1021/acs.estlett.9b00280



We're Expanding Our Focus on Environmental Science

Chemistry is at the heart of understanding the environment around us.

The ACS mission is to advance the broader chemistry enterprise and its practitioners for the benefit of Earth and its people. Beginning in 2020, we are renewing our commitment to Earth and its inhabitants by expanding our Environmental Science suite of journals to help scientists address the grand challenges that are relevant to the continuation and improvement of life.

These challenges include:

- Sustainable global development
- Access to clean water
- Remediation of air and soil pollution
- Recycling and waste disposal
- Mitigating climate change

Our focus during this expansion will begin with environmental engineering and chemistry of water. Look for related titles to launch in early 2020!

Improving people's lives through the transforming power of chemistry

FIND OUT MORE ABOUT ACS' POSITION ON SUSTAINABILITY AND THE ENVIRONMENT.

<https://www.acs.org/content/acs/en/policy/publicpolicies/sustainability.html>



e-ISSN: 1520-5045

Print ISSN: 0888-5885

Issue 1: January 1909

(as Industrial & Engineering Chemistry)

51 Issues/Year

2018 Impact Factor: 3.375

2018 Citations: 71,983

2018 Articles Published: 1,645

pubs.acs.org/iecr

A Dynamic Leader in Chemical Engineering

High-Quality Industrial and Academic Research in Applied Chemistry and Chemical Engineering

Industrial & Engineering Chemistry Research focuses on industrial and academic research in the broad fields of applied chemistry and chemical engineering, with special emphasis on fundamentals, processes, and products. Articles may highlight work that is experimental or theoretical, mathematical or descriptive, chemical or physical. In addition to fundamental research, papers may deal with process design and development and product research and development involving chemical and engineering aspects. Common areas of focus include supercritical fluids, membrane technology, ionic liquids, and biodiesel.

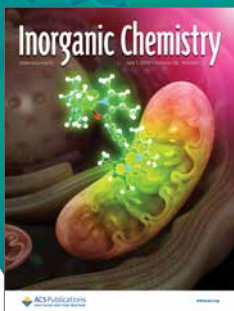
Common Research Areas

- Lignocellulosic biomass pretreatment
- Solubility parameters of oxygen
- LIQUAC model
- Breakthrough curve analysis
- AMPGas
- Bubbles in gas-liquid systems
- Advances in coagulation-flocculation with wastewater treatment
- Membrane gas separation
- Bioinspired smart materials
- Technologies for water treatment and reuse



In 2014, Editor-in-Chief Phillip E. Savage received the Research Excellence in Sustainable Engineering Award from AIChE for his pioneering research in renewable energy.

Inorganic Chemistry



Editor-in-Chief

William B. Tolman
Washington University
in St. Louis

e-ISSN: 1520-510X

Print ISSN: 0020-1669

Issue 1: February 1962

24 Issues/Year

2018 Impact Factor: 4.850

2018 Citations: 93,363

2018 Articles Published: 1,672

pubs.acs.org/ic

The Global Leader Publishing the Most Significant Research in Its Field

The Flagship Publication of Inorganic Chemistry

Inorganic Chemistry publishes fundamental studies in all phases of inorganic chemistry. Coverage includes experimental and theoretical reports on quantitative studies of structure and thermodynamics, kinetics, mechanisms of inorganic reactions, bioinorganic chemistry, and relevant aspects of organometallic chemistry, solid-state phenomena, and chemical bonding theory.

Common Research Areas

- Structure and thermodynamics
- Kinetics
- Mechanisms of inorganic reactions
- Bioinorganic chemistry
- Organometallic chemistry
- Solid-state phenomena
- Chemical bonding theory
- Synthesis, structure, thermodynamics, reactivity, spectroscopy, and bonding properties of significant new and known compounds

The most
cited journal
in Inorganic
Chemistry

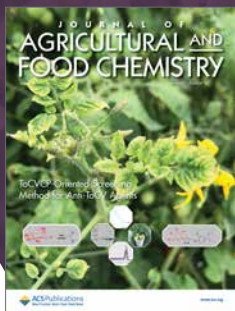
ACS Journals

Ue

Unique Element

Inorganic Chemistry publishes up to three Forum issues annually, consisting of a set of thematically linked papers from leading scientists on a multidisciplinary topic of growing interest. *Inorganic Chemistry* is a valuable pedagogical resource.

JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY



Editor-in-Chief
Thomas F. Hofmann
Technische Universität
München, Germany

e-ISSN: 1520-5118
Print ISSN: 0021-8561
Issue 1: April 1953
51 Issues/Year
2018 Impact Factor: 3.571
2018 Citations: 109,151
2018 Articles Published: 1,448

pubs.acs.org/jafc

An International Leader in Agriculture and Food Science

Global Perspectives from the Most Cited Journal of Its Kind

The *Journal of Agricultural and Food Chemistry* publishes high-quality research representing complete studies and research advances dealing with the chemistry and biochemistry of agriculture and food. The journal focuses on papers with chemistry or biochemistry as a major component combined with biological/sensory/nutritional/toxicological evaluation related to agriculture or food. Of 56 journals in the Agriculture, Multidisciplinary category, the *Journal of Agricultural and Food Chemistry* is the most cited and publishes the most articles.

**The most cited
journal in Food
Science & Technology;
Chemistry, Applied;
and Agriculture,
Multidisciplinary**

Common Research Areas

- Cooking methods with certain vegetables
- Plant breeding methods
- Maillard reactions
- Thiophenes in fried chicken
- Dissolved cations in coffee extraction
- Applications of ninhydrin reactions
- Crocetin approach against cancer
- Fiber in coffee
- Plant-insect chemical communications
- Wheat breeding and celiac disease



To help improve verification of organic foods, researchers developed a technique to test plants for pesticide metabolites. DOI: 10.1021/acs.jafc.8b06999 (2019)

J|A|C|S

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY



Editor-in-Chief
Peter J. Stang
University of Utah

e-ISSN: 1520-5126
Print ISSN: 0002-7863
Issue 1: January 1879
51 Issues/Year
2018 Impact Factor: 14.695
2018 Citations: 550,343
2018 Articles Published: 2,417

pubs.acs.org/jacs

The World's Preeminent Journal for All of Chemistry and the Interfacing Areas of Science

The Best Research in All of Chemistry

The *Journal of the American Chemical Society (JACS)* is devoted to the publication of fundamental research and publishes more than 3,000 articles, communications, and perspectives a year. In addition, *JACS* publishes Spotlights, research highlighted by the editors with summaries by science writers. Published weekly, *JACS* is unique in its coverage of **all** areas of chemistry. *JACS* is also a truly global journal, with the broadest distribution of subscribing research institutions worldwide.

Common Research Areas

- Nitroarenes coupling
- Radical relay chaperones
- Hydroformylation of styrenes
- Visible light-induced energy transfer
- Pd/Cu dual catalysis
- Exploiting single-electron transfer
- Cyclobutanone construction

**Most cited
journal in
Multidisciplinary
Chemistry**

ACS Journals



JACS, founded in 1879, is the flagship journal of the American Chemical Society. In 2018, the journal received its highest Impact Factor ever: 14.695.

Localization of phosphorylated sites



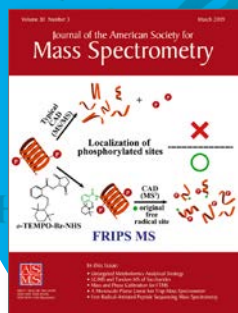
Journal of the American Society for

Mass Spectrometry

Editor-in-Chief

Joseph A. Loo

UCLA, Los Angeles,
California



CAD (MS³)
original free radical site

e-ISSN: 1879-1123

Print ISSN: 1044-0305

Issue 1: February 1990

12 Issues/Year

2018 Impact Factor: 3.202

2018 Citations: 9,644

2018 Articles Published: 242

The *Journal of The American Society for Mass Spectrometry* is co-published with the The American Society for Mass Spectrometry.

pubs.acs.org/jasms

Covering All Aspects of Mass Spectrometry

The Official Journal of The American Society for Mass Spectrometry

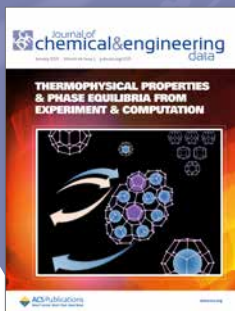
Journal of the American Society for Mass Spectrometry is a monthly, peer-reviewed journal that covers all aspects of mass spectrometry, including fields of scientific inquiry in which mass spectrometry can play a role. Comprehensive in scope, the journal publishes papers on both fundamentals and applications of mass spectrometry. Papers from all fields of scientific inquiry are published, including chemistry, physics, geology, and environmental science as well as the biological, health, and life sciences.

Common Research Areas

- Instrumentation principles, design, and demonstration
- Structures and chemical properties of gas-phase ions
- Studies of thermodynamic properties
- Ion spectroscopy
- Chemical kinetics
- Mechanisms of ionization
- Theory of ion fragmentation
- Cluster ions
- Potential energy surfaces
- Modeling
- Structural elucidation
- Biopolymer sequencing
- Development or validation of new methodology
- Proteomics
- Environmental and forensic measurements



The American Society for Mass Spectrometry (ASMS) was formed in 1969 to promote and disseminate knowledge of mass spectrometry and allied topics. They have recently partnered with ACS to publish the *Journal of The American Society for Mass Spectrometry*. Both Societies are non-profit, making for an excellent partnership that focuses on science, not profit.



e-ISSN: 1520-5134

Print ISSN: 0021-9568

Issue 1: January 1956

12 Issues/Year

2018 Impact Factor: 2.298

2018 Citations: 21,565

2018 Articles Published: 491

pubs.acs.org/jced

Covering Phase Equilibria and Thermophysical Properties from Experiment and Computation

The Data That Drive Discovery

The *Journal of Chemical & Engineering Data* is a monthly journal devoted to the publication of data obtained from both experiment and computation, which are viewed as complementary. It is the only ACS journal primarily concerned with articles containing data on the phase behavior and the physical, thermodynamic, and transport properties of well-defined materials, including complex mixtures of known compositions.

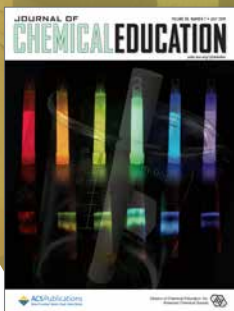
Common Research Areas

- Thermophysical properties obtained from quantum chemistry
- Molecular simulation
- Molecular mechanics calculations
- Reviews of experimental techniques



Editor-in-Chief Joan F. Brennecke's 150+ research publications have garnered more than 15,000 citations. She was inducted into the National Academy of Engineering in 2012.

JOURNAL OF CHEMICAL EDUCATION



Editor-in-Chief

Thomas Holme

Iowa State University

e-ISSN: 1938-1328

Print ISSN: 0021-9584

Issue 1: January 1924

12 Issues/Year

2018 Impact Factor: 1.763

2018 Citations: 12,588

2018 Articles Published: 364

The *Journal of Chemical Education* is co-published with the ACS Division of Chemical Education.

pubs.acs.org/jce

The World's Premier Chemical Education Resource

The Most Trusted Source in Chemical Education for More Than 90 Years

The *Journal of Chemical Education* publishes peer-reviewed articles and related information as a resource for those in the field of chemical education and for those institutions that serve them. The *Journal of Chemical Education* typically addresses chemical content, activities, laboratory experiments, instructional methods, and pedagogies. The journal serves as a means of communication among people across the world who are interested in the teaching and learning of chemistry. This includes instructors of chemistry from middle school through graduate school, professional staff who support these teaching activities, and practicing scientists interested in honing their skills and techniques.

Common Research Areas

- Organic and analytical chemistry
- Chemistry of climate change
- Polymer chemistry
- Calculating electromotive force of redox reactions
- Negative pH
- Chemistry learning styles and methods
- Cyclic voltammetry



The *Journal of Chemical Education* is co-published with the ACS Division of Chemical Education and subscriptions feature access to more than 90 years of content dating back to 1924.

JOURNAL OF CHEMICAL INFORMATION AND MODELING



Editor-in-Chief
Kenneth M. Merz, Jr.
Michigan State University

e-ISSN: 1549-960X
Print ISSN: 1549-9596
Issue 1: January 1961
12 Issues/Year
2018 Impact Factor: 3.966
2018 Citations: 16,352
2018 Articles Published: 227

pubs.acs.org/jcim

Dedicated to Chemical Informatics and Molecular Modeling

Harnessing the Power of Computers to Advance Chemical Discovery

The *Journal of Chemical Information and Modeling* publishes papers reporting new methodologies and important applications in the fields of chemical informatics and molecular modeling. Astute chemists, computer scientists, and information specialists look to this journal's insightful research studies, programming innovations, and software reviews to keep current with advances in this integral, multidisciplinary field.

Common Research Areas

- Representation and computer-based searching of chemical databases
- Molecular modeling
- Computer-aided molecular design of new materials, catalysts, or ligands
- Development of new computational methods or more efficient algorithms for chemical software
- Biopharmaceutical chemistry including analyses of biological activity and other issues related to drug discovery



The *Journal of Chemical Information and Modeling* is jointly indexed in the Medicinal Chemistry, Multidisciplinary Chemistry, Computer Science, Information Systems, and the Computer Science, Interdisciplinary Applications categories.



One of the Highest-Impact Journals in Theoretical Chemistry

Where Math, Physics, Biology, and Chemistry Converge

The *Journal of Chemical Theory and Computation* publishes papers reporting new theories, methodologies, and important applications in quantum electronic structure, molecular dynamics, and statistical mechanics.

Common Research Areas

- Advances in or applications of ab initio quantum mechanics
- Density functional theory
- Design and properties of new materials
- Surface science
- Monte Carlo simulations
- Solvation models
- QM/MM calculations
- Biomolecular structure prediction
- Molecular dynamics in the broadest sense including gas phase dynamics, ab initio dynamics, biomolecular dynamics, and protein folding



The *Journal of Chemical Theory and Computation* is jointly led by editors William L. Jorgensen and Gustavo E. Scuseria, recognized leaders in computational and theoretical chemistry. Google Scholar ranks *Journal of Chemical Theory and Computation* #1 in Molecular Modeling.

Journal of Medicinal Chemistry



Editors-in-Chief

Gunda I. Georg

University of Minnesota

Shaomeng Wang

University of Michigan

e-ISSN: 1520-4804

Print ISSN: 0022-2623

Issue 1: February 1959

24 Issues/Year

2018 Impact Factor: 6.054

2018 Citations: 69,945

2018 Articles Published: 724

pubs.acs.org/jmc

The Most Influential Medicinal Chemistry Journal for Academia and the Pharmaceutical Industry

More Than 60 Years as the Established Leader in Medicinal Chemistry

The *Journal of Medicinal Chemistry* publishes studies that contribute to an understanding of the relationship between molecular structure and biological activity or mode of action. Research in the journal has led to the creation of new therapies for the treatment and prevention of diseases. Advancements and breakthroughs published in the *Journal of Medicinal Chemistry* related to the design, synthesis, analysis, and biological evaluation of novel biologically active compounds used as pharmacological tools have a major impact on how medicinal chemistry is practiced today.

The most
cited journal
in Medicinal
Chemistry

Common Research Areas

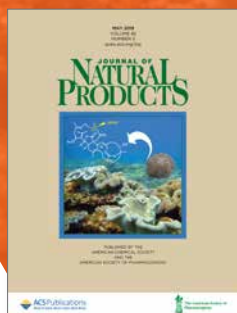
- Design, synthesis, and biological evaluation of novel biologically active compounds, diagnostic agents, or labeled ligands employed as pharmacological tools
- Molecular modifications and computational studies that improve understanding of structure-activity relationships
- Structural biological studies (X-ray, NMR, etc.) of relevant ligands and targets
- Molecular biological studies (e.g., site-directed mutagenesis) of macromolecular targets
- Computational chemistry methods for the identification, optimization, or target interaction analysis of bioactive molecules
- Effect of molecular structure on the distribution, pharmacokinetics, and metabolic transformation of biologically active compounds
- Novel methodology with broad application to medicinal chemistry

Ue

Unique Element

In addition to being the most cited journal in Medicinal Chemistry, the journal is also ranked by Google Scholar as #1 in Medicinal Chemistry and #5 in Pharmacology & Pharmacy.

JOURNAL OF NATURAL PRODUCTS



Editor-in-Chief *

A. Douglas Kinghorn

The Ohio State University

e-ISSN: 1520-6025

Print ISSN: 0163-3864

Issue 1: January 1979

12 Issues/Year

2018 Impact Factor: 4.257

2018 Citations: 25,908

2018 Articles Published: 338

The *Journal of Natural Products* is copublished with
The American Society of Pharmacognosy.

pubs.acs.org/jnp

**Expected change in editorial leadership, Jan 2020*

Harnessing the Value of Nature

Fundamental Research in the Synthesis and Impact of Naturally Occurring Compounds

For centuries, naturally occurring compounds have helped us to eliminate disease and improve health. The *Journal of Natural Products* publishes original research that makes substantial and scholarly contributions in the area of natural products. Contributions may relate to the chemistry or biochemistry of naturally occurring compounds or the biology of living systems from which they are obtained. Topics also include metabolites of microorganisms such as antibiotics and mycotoxins; physiologically active compounds; biochemical studies, including biosynthesis and transformations; fermentation and plant tissue culture; compound isolation and structure elucidation; synthesis of novel compounds from nature; and the pharmacology of compounds of natural origin.

Common Research Areas

- Secondary metabolites of microorganisms, including antibiotics and mycotoxins
- Physiologically active compounds from terrestrial and marine plants and animals
- Biochemical studies, including biosynthesis and microbiological transformations
- Fermentation and plant tissue culture
- Isolation, structure elucidation, and chemical synthesis of novel compounds from nature
- Pharmacology of compounds of natural origin



Journal of Natural Products is co-published by ACS Publications and The American Society of Pharmacognosy (ASP).

JOC

The Journal of Organic Chemistry



Editor-in-Chief

Scott J. Miller

Yale University

e-ISSN: 1520-6904

Print ISSN: 0022-3263

Issue 1: March 1936

24 Issues/Year

2018 Impact Factor: 4.745

2018 Citations: 98,696

2018 Articles Published: 1,558

pubs.acs.org/joc

The Essential Resource in Organic Chemistry

The Flagship Publication in Its Field

Since 1936, *The Journal of Organic Chemistry* has been one of the most prestigious places to publish and one of the most valuable and broadly applicable sources relevant to chemical research. With organic chemistry being at the interface of life and chemical sciences and with nearly 100,000 citations in a single year, discoveries published in *The Journal of Organic Chemistry* help scientists improve the lives of millions every day. The pathways to critical discoveries run through *The Journal of Organic Chemistry* in areas like drug discovery, energy and the environment, plastics and materials science, catalysis, mechanistic insights, and environmental science.

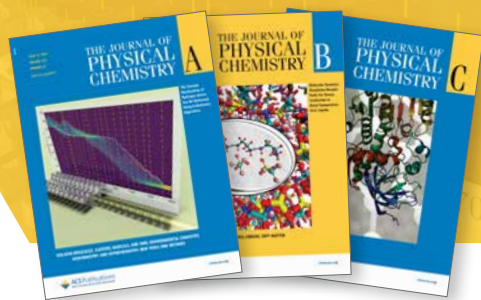
Common Research Areas

- Drying of organic solvents
- Direct and indirect reductive amination procedures
- Halide coupling
- Cross-coupling
- C–H functionalization advances
- Tune emission color
- Six-step synthesis
- Mitsunobu reaction
- Corey–Chaykovsky reactions



You can find content from the *Journal of Organic Chemistry* cited in global patents, including those for some of the world's most-prescribed drugs.

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The Journal of Physical Chemistry A covers kinetics and dynamics; spectroscopy, photochemistry, and excited states; environmental and atmospheric chemistry, aerosol processes, geochemistry, and astrochemistry; and molecular structure, quantum chemistry, and general theory.

The Journal of Physical Chemistry B covers biophysical chemistry and biomolecules; biomaterials, surfactants, and membranes; liquids; chemical and dynamical processes in solution; and gases, colloids, polymers, and soft matter.

The Journal of Physical Chemistry C covers energy conversion and storage; energy and charge transport; surfaces, interfaces, porous materials, and catalysis; plasmonics, optical materials, and hard matter; and physical processes in nanomaterials and nanostructures.

Editor-in-Chief*

George C. Schatz

Northwestern University

JPCA Deputy Editor

Anne B. McCoy

University of Washington

The Journal of Physical Chemistry A

e-ISSN: 1520-5215

Print ISSN: 1089-5639

Issue 1: October 1896

51 Issues/Year

2018 Impact Factor: 2.641

2018 Citations: 59,462

2018 Articles Published: 999

pubs.acs.org/jpca

JPCB Deputy Editor

Joan-Emma Shea

*The University of California,
Santa Barbara*

The Journal of Physical Chemistry B

e-ISSN: 1520-5207

Print ISSN: 1520-6106

Issue 1: October 1896

51 Issues/Year

2018 Impact Factor: 2.923

2018 Citations: 111,618

2018 Articles Published: 1,231

pubs.acs.org/jpcb

JPCC Deputy Editor

Catherine J. Murphy

*University of Illinois at
Urbana-Champaign*

The Journal of Physical Chemistry C

e-ISSN: 1932-7455

Print ISSN: 1932-7447

Issue 1: October 1896

51 Issues/Year

2018 Impact Factor: 4.309

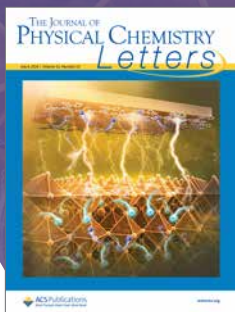
2018 Citations: 149,348

2018 Articles Published: 3,209

pubs.acs.org/jpcc

**Expected change in editorial leadership, Jan 2020*

THE JOURNAL OF PHYSICAL CHEMISTRY *Letters*



Editor-in-Chief *

George C. Schatz

Northwestern University

Deputy Editor

Gregory D. Scholes

Princeton University

e-ISSN: 1948-7185

Print ISSN: Online Only

24 Issues/Year

Issue 1: January 2010

2018 Impact Factor: 7.329

2018 Citations: 45,404

2018 Articles Published: 1,070

pubs.acs.org/jpcl

**Expected change in editorial leadership, Jan 2020*

The Fastest Time to Publication in Its Field: 5 Weeks from Submission to Web Publication

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By combining letters from the three sections of *The Journal of Physical Chemistry* into *The Journal of Physical Chemistry Letters*, scientists from all areas can view the important, upcoming topics at the forefront of physical chemistry research from a convenient, timesaving, single source. In addition, *The Journal of Physical Chemistry Letters* offers innovative multimedia options, such as Perspectives videos, created by authors and free to access from a library of more than 70 videos, sorted by topic.

Common Research Areas

- Clusters, radicals, and ions
- Spectroscopy and photochemistry
- Surfactants and membranes: biophysical chemistry, biomolecules, and biomaterials
- Polymers, glasses, and soft matter chemical and dynamical processes in solution
- Plasmonics and optoelectronics: energy conversion and storage
- Surface, interface, and catalysis properties of nanomaterials and materials

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Unique Element

In addition to Spotlights, which highlight important work within each issue, *The Journal of Physical Chemistry Letters* publishes Viewpoints, featuring invited guest commentary from top researchers. The journal also offers both Perspective and Viewpoint videos, as well as ACS LiveSlides.



e-ISSN: 1535-3907

Print ISSN: 1535-3893

Issue 1: February 2002

12 Issues/Year

2018 Impact Factor: 3.780

2018 Citations: 21,216

2018 Articles Published: 393

pubs.acs.org/jpr

The World's Most Trusted Journal in Protein Analysis and Function

Advancing the International Field of Proteomics

The *Journal of Proteome Research* publishes content encompassing all aspects of global protein analysis and function. The theme is on a multidisciplinary approach to the life sciences through the synergy between the different types of "omics."

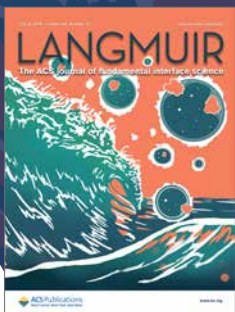
Common Research Areas

- Dynamic aspects of genomics
- Spatiotemporal proteomics
- Metabonomics and metabolomics
- Clinical and agricultural proteomics
- Advances in methodology including bioinformatics



In partnership with the Human Proteome Organization (HUPO), the European Proteomics Association (EuPA), and other proteomics journals, the *Journal of Proteome Research* publishes tutorials that cover core techniques and basics as an introduction to scientists that are new to the field.

LANGMUIR



Editor-in-Chief*

Françoise M. Winnick

University of Helsinki

e-ISSN: 1520-5827

Print ISSN: 0743-7463

Issue 1: January 1985

51 Issues/Year

2018 Impact Factor: 3.683

2018 Citations: 117,927

2018 Articles Published: 1,700

pubs.acs.org/langmuir

*Expected change in editorial leadership, Jan 2020

A Leader in Interface Research for Over 30 Years

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Langmuir is a leading journal focusing on the fundamental science of systems and materials in which the interface dominates structure and function. *Langmuir* covers topics in synthetic and natural surfaces, and interfaces such as surface chemistry of interface-rich systems and nanoparticles/colloids, interface-driven stability, charge transfer at interfaces, bio-interfaces, measurements on interfaces and colloids, and understanding fundamental interfacial properties aided by theory and computation.

Common Research Areas

- Colloids: surfactants and self-assembly, dispersions, emulsions, foams
- Interfaces: adsorption, reactions, films, forces
- Biological interfaces: biocolloids, biomolecular and biomimetic materials
- Materials: nano- and mesostructured materials, polymers, gels, liquid crystals
- Electrochemistry: interfacial charge transfer, charge transport, electrocatalysis, electrokinetic phenomena, bioelectrochemistry
- Devices and applications: sensors, fluidics, patterning, catalysis, photonic crystals



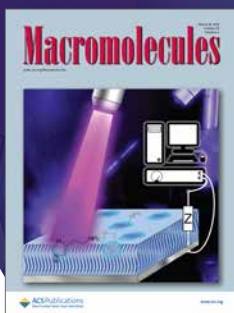
An article published in *Langmuir*, DOI: 10.1021/acs.langmuir.6b02997, features a new use of nanotechnology that may make clean cars economically feasible, according to the U.S. Department of Energy.

Macromolecules

Editor-in-Chief

Marc A. Hillmyer

University of Minnesota



e-ISSN: 1520-5835

Print ISSN: 0024-9297

Issue 1: January 1968

24 Issues/Year

2018 Impact Factor: 5.997

2018 Citations: 102,131

2018 Articles Published: 1,022

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Most-Cited, Highest-Impact Original Research Journal in Polymer Science

Cornerstone of the Polymer Research Field

Macromolecules publishes original research on all fundamental aspects of macromolecular science. The journal showcases innovative concepts, experimental methods/observations, and theoretical approaches presented in comprehensive reports, brief communications to the editor, and technical notes.

Common Research Areas

- Synthesis
- Polymerization mechanisms and kinetics
- Chemical modification,
- Solution/melt/solid-state characteristics
- Surface properties of organic, inorganic, and naturally occurring polymers

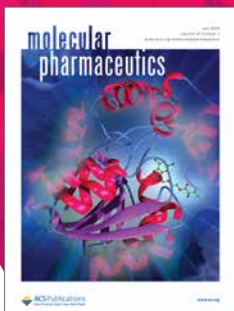
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journal in
Polymer Science

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Unique Element

Editor-in-Chief Marc A. Hillmyer and his colleagues synthesized a sugar-based polymer from which the original monomer can be easily recovered during the recycling process. Additionally, Hillmyer received a grant in June 2019 to develop corn-based plastics that will have greater toughness, strength, and thermal stability than existing corn-based plastics.

molecular pharmaceutics



Editor-in-Chief
Lynne S. Taylor
Purdue University

e-ISSN: 1543-8392
Print ISSN: 1543-8384
Issue 1: January 2004
12 Issues/Year
2018 Impact Factor: 4.396
2018 Citations: 16,792
2018 Articles Published: 541

pubs.acs.org/mp

The Preeminent Journal at the Interface of Drug Discovery and Development

Contributing to the Molecular Mechanistic Understanding of Drug Delivery

Molecular Pharmaceutics publishes the results of original research that contributes significantly to the molecular mechanistic understanding of drug delivery and drug delivery systems.

Common Research Areas

- Physical and pharmaceutical chemistry
- Biochemistry and biophysics
- Molecular and cellular biology
- Polymer and materials science as they relate to drug and drug delivery system efficacy
- Mechanistic drug delivery
- Drug targeting research on modulating activity and efficacy



Editor-in-Chief Lynne S. Taylor is a fellow of both the American Association of Pharmaceutical Scientists and the Royal Society of Chemistry.

NANO LETTERS



Co-Editors*

A. Paul Alivisatos

University of California, Berkeley

Charles M. Lieber

Harvard University

e-ISSN: 1530-6992

Print ISSN: 1530-6984

Issue 1: January 2001

12 Issues/Year

2018 Impact Factor: 12.279

2018 Citations: 163,570

2018 Articles Published: 1,104

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**Expected change in editorial leadership, Jan 2020*

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Common Research Areas

- Synthesis and processing of organic, inorganic, and hybrid nanosized materials by physical, chemical, and biological methods
- Modeling and simulation of synthetic, assembly, and interaction processes
- Characterization of size-dependent properties
- Realization and application of novel nanostructures and nanodevices



Nano Letters is ranked #2 in the Google Scholar category of Nanotechnology and #4 in Engineering and Computer Science and in Materials Engineering. It's also listed as the #20 journal overall.

Organic LETTERS

Editor-in-Chief
Erick M. Carreira
ETH Zürich



e-ISSN: 1523-7052
Print ISSN: 1523-7060
Issue 1: July 1999
24 Issues/Year
2018 Impact Factor: 6.555
2018 Citations: 100,313
2018 Articles Published: 1,839

pubs.acs.org/ol

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- Physical and theoretical organic chemistry
- Natural products isolation and synthesis
- New synthetic methodology
- Bioorganic and medicinal chemistry

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Chemistry

ACS Journals



Among the 57 journals listed in the Organic Chemistry category, *Organic Letters* ranks in the top five journals overall in Impact Factor (#2) and Immediacy Index (#4), and ranks #1 in both Total Citations and Most Citable Items.

ORGANIC PROCESS RESEARCH & DEVELOPMENT

OPR&D



Editor-in-Chief

Kai Rossen

Lundbeck

e-ISSN: 1520-586X

Print ISSN: 1083-6160

Issue 1: January 1997

12 Issues/Year

2018 Impact Factor: 3.327

2018 Citations: 7,098

2018 Articles Published: 203

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Organic Process Research & Development (OPR&D) reports original work from the broad field of industrial process chemistry but also academic results that are relevant, or potentially relevant, to industrial applications. *OPR&D* covers research and development from and for the fine organic chemicals and specialty chemicals industries, including pharmaceuticals, agrochemicals, electronic chemicals, flavors and fragrances, intermediates, food additives, and specialty polymers, as well as work from commodity chemicals, petrochemicals, and polymers.

Common Research Areas

- Every aspect of organic chemistry, including all aspects of catalysis
- Analytical and solid-state chemistry and chemical engineering, such as work-up tools, process safety, and flow chemistry
- Synthetic methodology development and synthetic strategy exploration



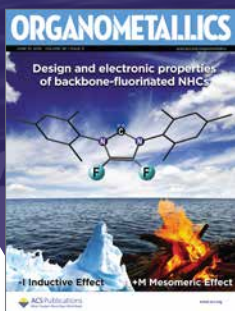
Organic Process Research & Development serves as a communication tool between industrial chemists and chemists working at universities and research institutes.

ORGANOMETALLICS

Editor-in-Chief

Paul J. Chirik

Princeton University



e-ISSN: 1520-6041

Print ISSN: 0276-7333

Issue 1: January 1982

24 Issues/Year

2018 Impact Factor: 4.100

2018 Citations: 38,074

2018 Articles Published: 536

pubs.acs.org/om

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Common Research Areas

- Organic and polymer synthesis
- Catalytic processes
- Synthetic aspects of materials science and solid-state chemistry



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Journal	ACS Legacy Archives Coverage
Accounts of Chemical Research	1968-1995
Analytical Chemistry	1929-1995
Biochemistry	1962-1995
Bioconjugate Chemistry	1990-1995
Chemical Research in Toxicology	1988-1995
Chemical Reviews	1924-1995
Chemistry of Materials	1989-1995
Energy & Fuels	1987-1995
Environmental Science & Technology	1967-1995
Industrial & Engineering Chemistry Research	1909-1995
Inorganic Chemistry	1962-1995
Journal of Agricultural and Food Chemistry	1953-1995
Journal of Chemical & Engineering Data	1956-1995
Journal of Chemical Information and Modeling	1961-1995
Journal of Medicinal Chemistry	1959-1995
Journal of Natural Products	1979-1995
Journal of the American Chemical Society	1879-1995
Langmuir	1985-1995
Macromolecules	1968-1995
Organometallics	1982-1995
The Journal of Organic Chemistry	1936-1995
The Journal of Physical Chemistry	1896-1995



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A close-up portrait of Prof. Teri Odom, a woman with short dark hair, smiling warmly. The image is overlaid with a blue-to-yellow gradient. In the top left corner, there is a white rectangular box with a diagonal line pattern on its left side, containing the text 'Behind every article, there's a personal story of discovery'.

Behind every article, there's a
personal story of discovery

TRANSFORMATIVE

Prof. Teri Odom, Ph.D.

*Charles E. and Emma H. Morrison Professor of Chemistry,
Northwestern University. Executive Editor, ACS Photonics*

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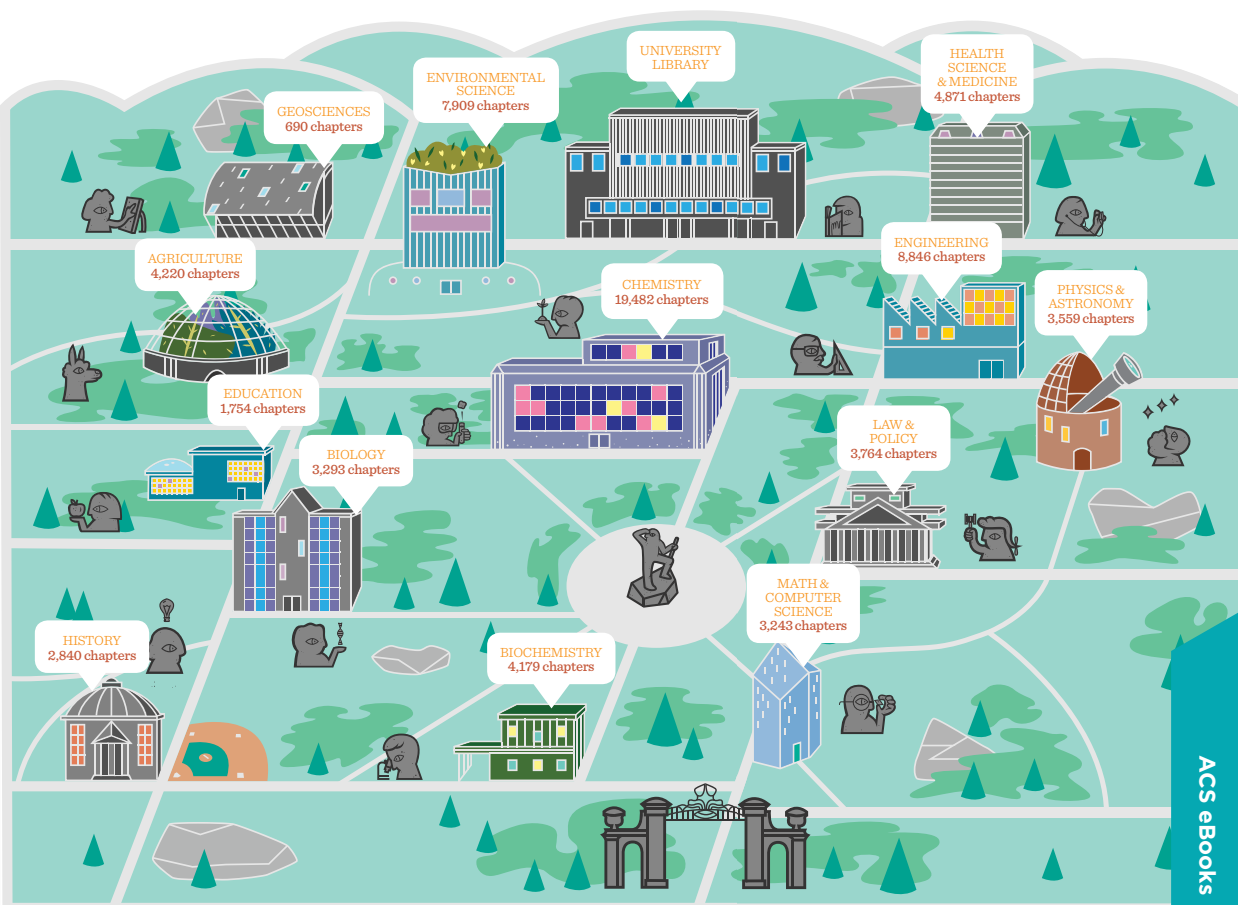
MINGHUA ZHANG

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Edward Pyzer-Knapp, Teodoro Laino
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LinShu Liu, Michael H. Tunick
ISBN: 9780841237117
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Sex, Smoke, and Spirits: The Role of Chemistry

Brian Guthrie, Jonathan Beauchamp, Stephen Toth, Michael Qian, Andrea Büttner
ISBN: 9780841234635
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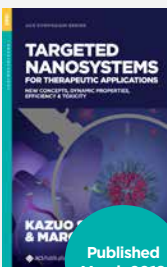
Enhancing Student Retention in Introductory Chemistry Courses: Practical Strategies

Supaporn Kradtap Hartwell,
Tanya Gupta
ISBN: 9780841235113
ACS Symposium Series #1330



Complete Accounts of Integrated Drug Discovery and Development: Recent Examples from the Pharmaceutical Industry

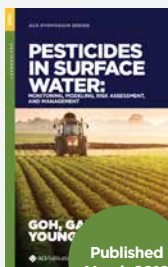
Ahmed F. Abdel-Magid, Jaan A. Pesti, Rajappa Vaidyanathan
ISBN: 9780841234314
ACS Symposium Series #1332



Targeted Nanosystems for Therapeutic Applications: New Concepts, Dynamic Properties, Efficiency, and Toxicity

Kazuo Sakurai, Marc A. Ilies
ISBN: 9780841233836
ACS Symposium Series #1309

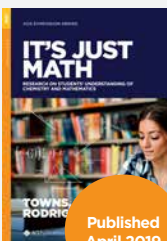
Published
March 2019



Pesticides in Surface Water: Monitoring, Modeling, Risk Assessment, and Management

Kean S. Goh, Jay Gan, Dirk F. Young, Yuzhou Luo
ISBN: 9780841234109
ACS Symposium Series #1308

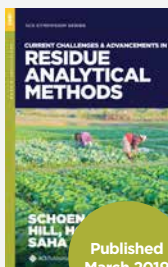
Published
March 2019



It's Just Math: Research on Students' Understanding of Chemistry and Mathematics

Marcy H. Towns, Kinsey Bain,
Jon-Marc G. Rodriguez
ISBN: 9780841234352

Published
April 2019



Current Challenges and Advancements in Residue Analytical Methods

Elisabeth A. Schoenau, Tao Geng, Ryan Hill, Norma L. Houston, Manasi Saha, Xiao Zhou
ISBN: 9780841234161
ACS Symposium Series #1300

Published
March 2019

EDITOR'S PICKS

A few of our recent favorites



Carbohydrate-Based Vaccines: From Concept to Clinic

A. Krishna Prasad

ISBN: 9780841233379

ACS Symposium Series #1290



Multiphase Environmental Chemistry of Aerosols

Sherri W. Hunt, Alexander Laskin, Sergey A. Nizkorodov

ISBN: 9780841233638

ACS Symposium Series #1299

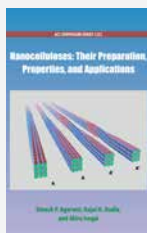


Complete Accounts of Integrated Drug Discovery and Development: Recent Examples from the Pharmaceutical Industry Volume 1

Ahmed F. Abdel-Magid, Jaan A. Pesti, Rajappa Vaidyanathan

ISBN: 9780841233980

ACS Symposium Series #1307

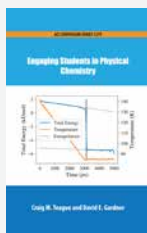


Nanocelluloses: Their Preparation, Properties, and Applications

Umesh P. Agarwal, Rajai H. Atalla, Akira Isogai

ISBN: 978-0-8412-3218-1

ACS Symposium Series #1251

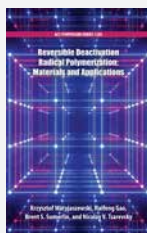


Engaging Students in Physical Chemistry

Craig M. Teague, David E. Gardner

ISBN: 9780841232884

ACS Symposium Series #1279



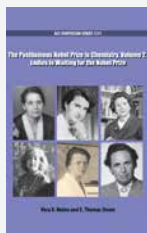
Reversible Deactivation Radical Polymerization: Materials and Applications

Krzysztof Matyjaszewski, Haifeng Gao, Brent S. Sumerlin, Nicolay V. Tsarevsky

ISBN: 9780841233232

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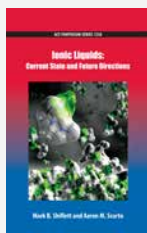
The Posthumous Nobel Prize in Chemistry. Volume 2. Ladies in Waiting for the Nobel Prize

Vera V. Mainz, E. Thomas Strom
ISBN: 9780841233911
ACS Symposium Series #1311



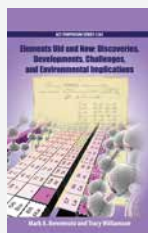
Raman Spectroscopy in the Undergraduate Curriculum

Matthew D. Sonntag
ISBN: 9780841233737
ACS Symposium Series #1305



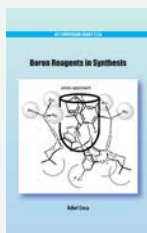
Ionic Liquids: Current State and Future Directions

Mark B. Shiflett, Aaron M. Scurto
ISBN: 9780841232136
ACS Symposium Series #1250



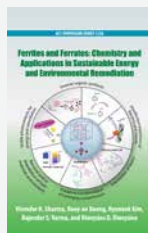
Elements Old and New: Discoveries, Developments, Challenges, and Environmental Implications

Mark A. Benvenuto, Tracy Williamson
ISBN: 9780841232556
ACS Symposium Series #1263



Boron Reagents in Synthesis


Adiel Coca
ISBN: 978-0-8412-3183-2
ACS Symposium Series #1236



Ferrites and Ferrates: Chemistry and Applications in Sustainable Energy and Environmental Remediation

Virender K. Sharma, Rueyan Doong, Hyunook Kim, Rajender S. Varma, Dionysios D. Dionysiou
ISBN: 9780841231870
ACS Symposium Series #1238

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A close-up portrait of Prof. Shu-Li You, a middle-aged man with short dark hair and glasses, smiling warmly. The background is a soft, out-of-focus gradient of blue and yellow. In the top left corner, there is a white rectangular box with a diagonal line pattern on its left side, containing the text "Behind every article, there's a personal story of discovery".

Behind every article, there's a
personal story of discovery

CREATOR

Prof. Shu-Li You, Ph.D.

*Director, State Key Laboratory of Organometallic Chemistry,
Shanghai Institute of Organic Chemistry, CAS.
Associate Editor, Organometallics*

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ACS REAGENT CHEMICALS

ACS Reagent Chemicals contains detailed test methods and purity specifications for almost 500 reagent chemicals and over 500 standard-grade reference materials. These specifications have become the de facto standards for chemicals used in many high-purity applications, with agencies such as the US EPA and ASTM referencing these specifications and methods. Monographs are continuously under review by the ACS Committee on Analytical Reagents, and updates are released twice per year.



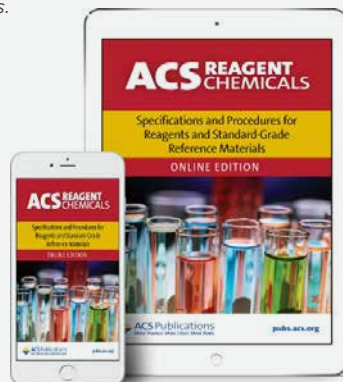
In 2017, we introduced the new online version of *ACS Reagent Chemicals*. It featured improvements such as:

- > Mobile-friendly operation
- > Live links between reagents and methods
- > HTML or printable PDF formats
- > Fresh, user-friendly interface
- > Download a cumulative summary of updates in one tidy spreadsheet

→ What's New in 2018

The first major update to ACS Reagent Chemicals was released in February 2018 and made major enhancements, including:

- > Permanent URLs to the current version
- > Easy access to historic versions in PDF and HTML
- > Clearly marked monographs for authoritative and expired versions
- > Supplements & Updates box to give users a quick view of changes to each monograph
- > Clickable, copiable MathJax™ equations that provide easy transfer to LaTeX, Word, and other software



→ Easy-to-Navigate Layout— Save time and eliminate mistakes

The “sticky” search box lets users jump easily from one reagent or method to another. The new design helps readers quickly identify safety issues, handling requirements, and stock solution preparations to use time efficiently and prevent costly mistakes.

→ Full-Text Discoverability— Find what you're looking for

There's no need to worry about remembering the formal name of a chemical. Our full-text and key-term searching allows users to search by IUPAC or common name, CAS number, formula weight, and more.

→ Don't want to take a book into the fume hood?

You can download a PDF that's easy to print and take with you. Or you can save or bookmark the monograph for later.

→ Download a cumulative summary of updates!

Visit pubs.acs.org/page/reagents/supplements-updates and download a spreadsheet detailing all of the content updates made since the introduction of the online version.



ACS GUIDE TO SCHOLARLY COMMUNICATION



EDITED BY

**BANIK, BAYSINGER
KAMAT, PIANTA**

FOURTH
EDITION

TOTALLY REIMAGINED

The *ACS Guide* is your comprehensive and authoritative industry standard on scholarly communication, with broad applicability across multiple disciplines. This new digital-first version continually evolves to reflect the most current information in a rapidly changing publishing landscape.

BUILD ESSENTIAL SKILLS

The *ACS Guide* is not just about publishing in journals; it is about effective communication of scientific material. A discovery is nothing if it cannot be communicated. With the volume of information in the world today, a resource like the *ACS Guide* is an important tool to help students and researchers alike achieve their scholarly goals.



EXAMPLES

A library of real world examples helps users learn by modeling top-quality communications and guides authors in creating all aspects of a journal article, from the basics—like tables and references—to more complex topics, such as graphical abstracts and cover letters. New samples will be added regularly to further expand existing sections and offer new content as scientific writing expands and changes.

ACS GUIDE TABLE OF CONTENTS

Part 1: Scientific Communication

- 1.1 Different Ways Scientists Communicate **NEW**
- 1.2 Ethics in Scientific Publication
- 1.4 Communicating Safety Information **NEW**
- 1.3 Intellectual Property: Copyright, Permissions, & Beyond
- 1.5 Open Access & Open Science **NEW**

Part 2: Scientific Journals

- 2.1 Writing about Your Research: Best Practices **NEW**
- 2.2 Selecting a Scientific Journal **NEW**
- 2.3 Organization of Your Research Article
- 2.4 Submission Procedures **NEW**
- 2.5 Peer Review
- 2.6 Post-Submission Procedures **NEW**
- 2.7 Chemistry Preprints **NEW**

Part 3: Data in the Google Era


- 3.1 Digital Chemical Data **NEW**
- 3.2 Data Sharing **NEW**
- 3.3 Chemical Structures in the Google Era **NEW**

Part 4: Scientific Style Conventions

- 4.1 Graphics & Multimedia
- 4.2 Tables
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- 4.5 Chemical Structures
- 4.6 Chemical Compound Nomenclature

Part 5: Editorial Style Conventions

- 5.1 Effective Writing & Word Usage
- 5.2 Grammar, Punctuation, & Spelling
- 5.3 General Style Conventions
- 5.4 Numbers, Mathematics, & Units of Measure
- 5.4 Numbers, Math, and Units of Measure

A close-up portrait of a man with short dark hair and a slight beard, looking directly at the camera. The background is a gradient of blue and yellow. In the top left corner, there is a white box with a diagonal line pattern on the left side containing text.

Behind every article, there's a
personal story of discovery

STARTUP

Stafford Sheehan, Ph.D.

President, Catalytic Innovations. C&EN Talented 12 Alumnus

Watch Dr. Sheehan's story at

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After receiving his Ph.D., he didn't seek a job at a chemical company. He started his own. Now his business has big plans to reduce global CO₂ levels.

Chemical & Engineering News

C&EN Archives

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C&EN Archives is available via an annual subscription license or a one-time payment option. Visit pubs.acs.org/cen-archives for more information.

Important Update

C&EN Archives is no longer a rolling archive but now remains static, with more than 4,100 issues extending through 2015. For 2016 to the present, please visit C&EN Global Enterprise at cenglobal.acs.org.

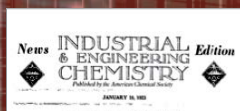


FUEL INTEGRATIVE RESEARCH

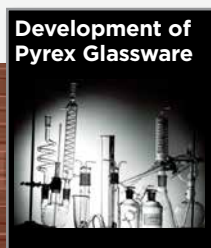
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2016

...2016 AND BEYOND

A close-up portrait of Prof. Vivian Yam, Ph.D., wearing glasses and smiling. The background is a soft gradient of blue and yellow. A white box in the top left corner contains the text "Behind every article, there's a personal story of discovery".

Behind every article, there's a
personal story of discovery

LUMINARY

Prof. Vivian Yam, Ph.D.

*Phillip Wong Wilson Wong Professor in Chemistry and Energy,
Chair Professor of Chemistry, The University of Hong Kong,
Associate Editor, Inorganic Chemistry*

Watch Professor Yam's story at

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Today's inefficient lighting technology puts an unnecessary drain on the world's energy capacity. Her bright ideas on excited states could change the way the world is lit.

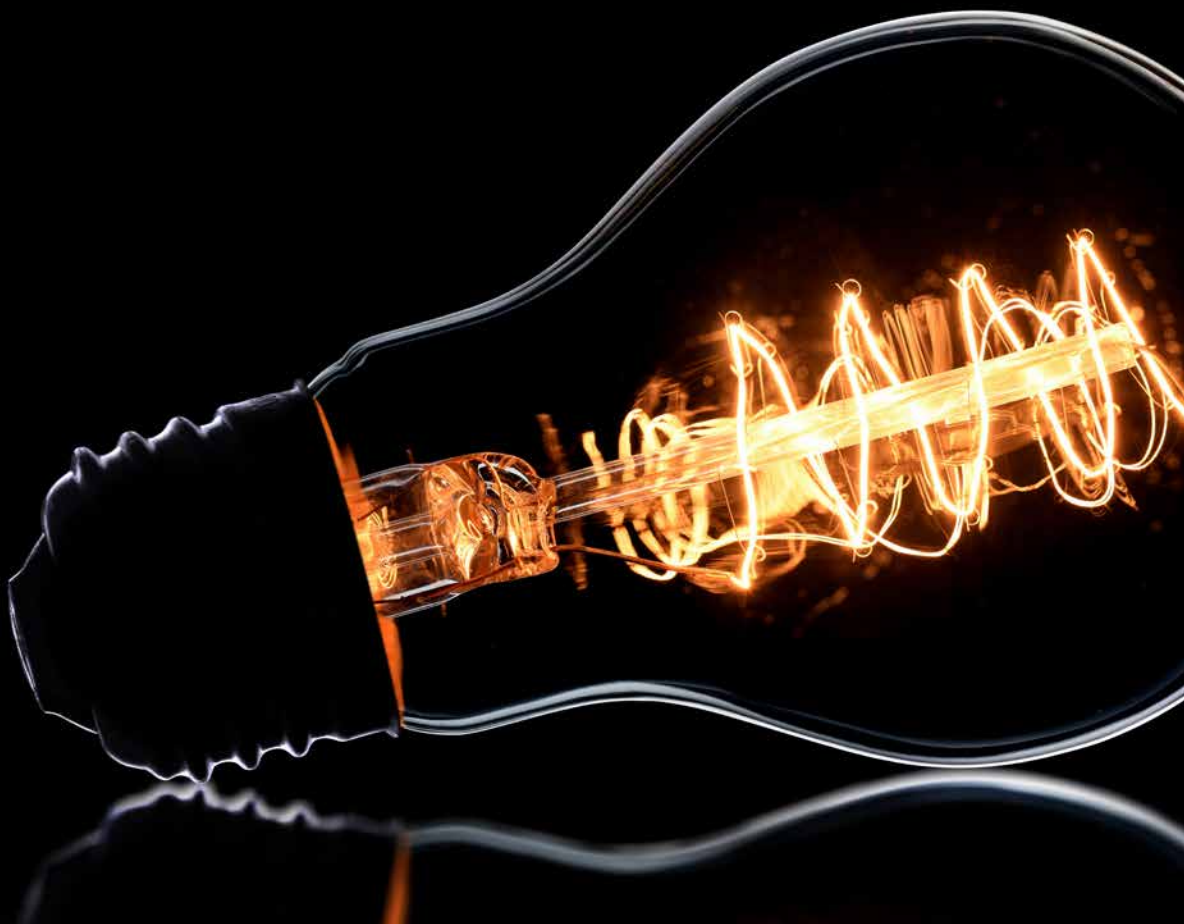
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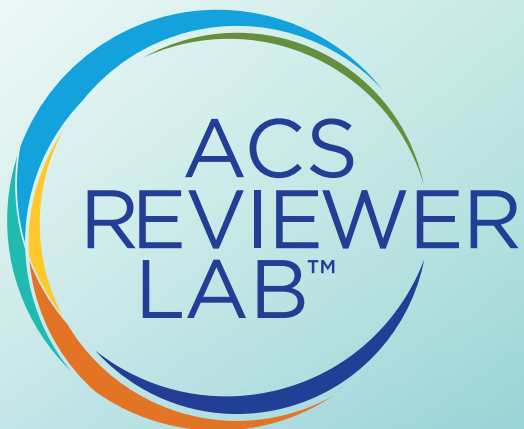
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JILLIAN M. BURIAK
Editor-in-Chief, *Chemistry of Materials*
University of Alberta

"Reviewers play a critical role for all of the journals for ACS Publications. Probably there are two main things that they do; one is the gatekeepers that make sure that only quality work gets published, but second, they play a critical role in educating authors and making papers better."

WILLIAM B. TOLMAN
Editor-in-Chief, *Inorganic Chemistry*
Washington University in St. Louis

"In fact I would view the reviewer as part of our team. They were giving expert advice to our team and all the editors. We value very much high quality reviews."

VIVIAN W.W. YAM
Associate Editor, *Inorganic Chemistry*
The University of Hong Kong

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Peer review is critical to the advancement of science, but few researchers receive formalized education to sharpen their reviewing skills. A recent survey reported that up to 77% of researchers desire further training. This is astonishing, considering another study found over 30 million hours were spent reviewing manuscripts within scientific journals in 2013 alone.

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That's where we believe we can make a difference. ACS Reviewer Lab is an online course available in English, Chinese, and Japanese designed to educate researchers on the fundamentals of peer review. At ACS, we believe in equal accessibility for all people and have taken extra steps in our course design to make the course accessible to people with disabilities, as outlined in federal Section 508 guidelines. The course features six interactive modules covering the basics of peer review and ethics, as well as real-life guidance on how to write a high-quality referee report.

This detailed course, designed by ACS editors, leading scientific researchers, and ACS Publications staff, takes users through the peer-review process while providing discerning examples along the way. Each module is accompanied by exercises to test skill and knowledge. A certificate is awarded upon completion of the final assessment. Graduates are also given the option to place a badge on their reviewer profile in ACS Paragon Plus, ACS's peer review environment, to indicate this accomplishment to journal editors.

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A close-up portrait of Prof. Anne Andrews, a woman with long, wavy blonde hair, smiling warmly. The background is a soft, out-of-focus gradient of yellow and orange. A white rectangular box with a diagonal line pattern on the left side is positioned in the upper left corner, containing the text "Behind every article, there's a personal story of discovery".

Behind every article, there's a
personal story of discovery

MINDSHIFT

Prof. Anne Andrews, Ph.D.

*Professor of Psychiatry and Chemistry & Biochemistry, UCLA.
Associate Editor, ACS Chemical Neuroscience*

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INSPIRED

Prof. Cristina Nevado, Ph.D.

*Professor, Department of Chemistry, University of Zurich
Senior Editor, ACS Central Science*

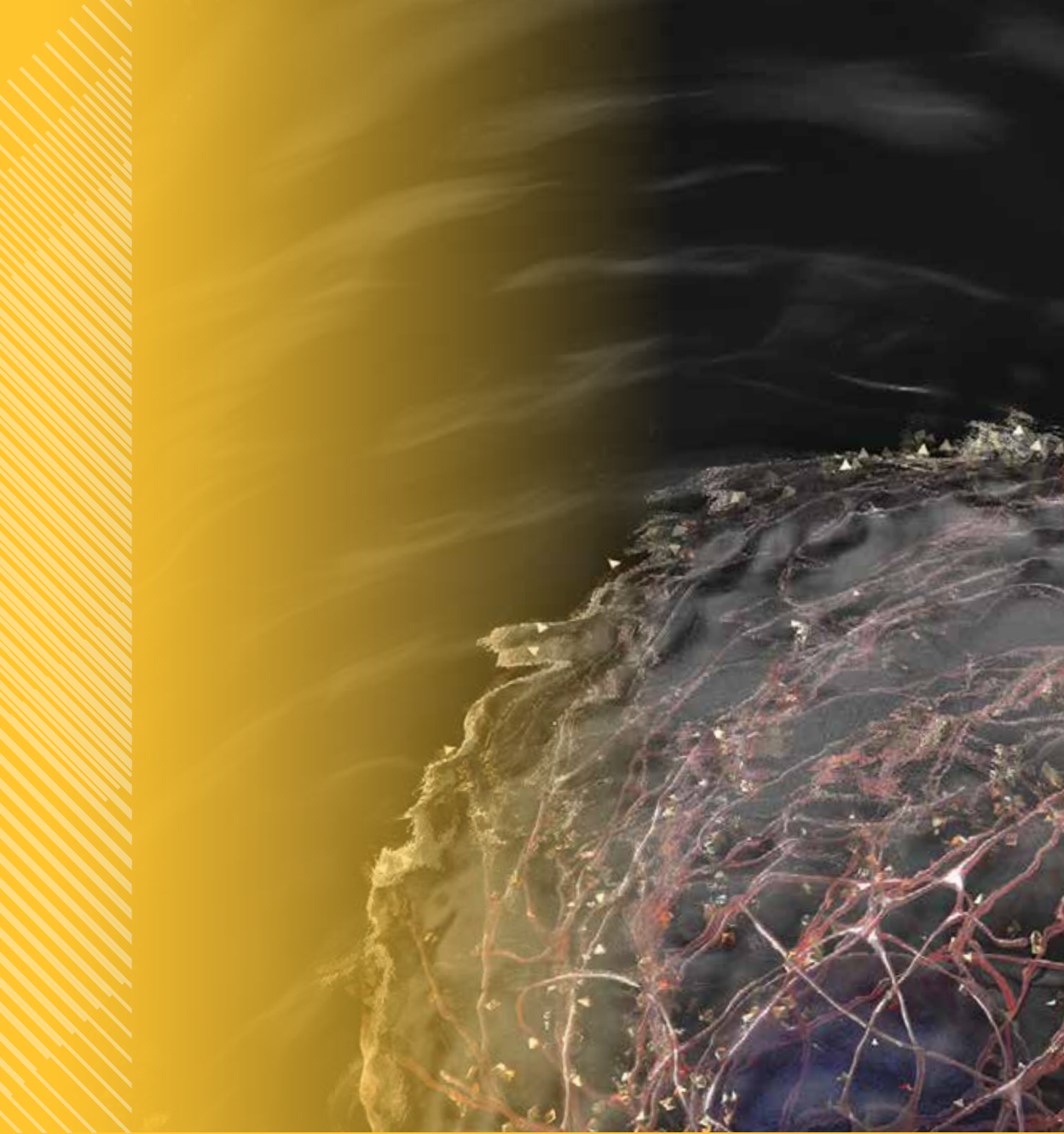
Professor Cristina Nevado has a passion for art. Like an artist, she's always found inspiration in seeking to understand the world around her. Now she's using her curiosity to help improve our understanding of organometallic reactions.



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