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- ***ACS Guide to Scholarly Communication:*** The *ACS Guide* is about effective communication of scientific material. A discovery is nothing if it cannot be communicated externally. With the volume of information in the world today, a resource like the *ACS Guide* is an important tool to help researchers become more effective communicators, from lab notebook to board room.

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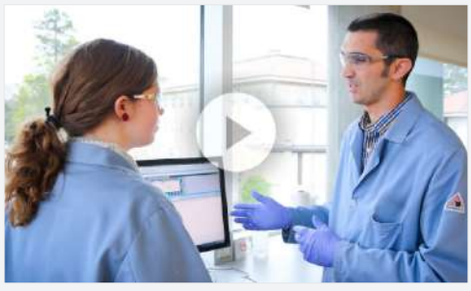

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ACS Publications journals are the most cited in chemistry, providing a better return on your investment. Eleven of our journals rank #1 in Impact Factor or total citations, and 71% rank in the top quartile of their subject category based on Impact Factor.

Organizations that read ACS Publications are more likely to publish in ACS's high impact journals, which can lead to more funding and an overall higher quality university experience.

Our journals include research from a full cross-section of disciplines, making it valuable to departments outside of chemistry, such as physics, biological sciences, and engineering. In fact, more than 58% of articles that cite ACS Publications are classified as outside the core chemistry categories.

What's new?

Each year, our editorial board assesses where we may need to expand our journal offerings to accommodate new and growing fields of research.

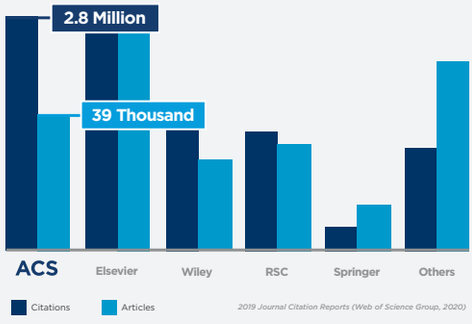
In 2021, subscribers will enjoy five new journals:

- ***ACS Agricultural Science & Technology***
- ***ACS ES&T Engineering***
- ***ACS ES&T Water***
- ***ACS Food Science & Technology***
- ***Accounts of Materials Research*:** a collaboration with ShanghaiTech University

In 2020, we added three new journals to our portfolio.

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

ACS Combinatorial Chemistry will discontinue publishing new content at the end of 2020. Existing content will remain available to All Publications subscribers.



ACS citations/articles vs competitors

Journal of the American Chemical Society

Chemical Reviews

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- **Avoid common pitfalls by reviewing real-world examples.**
- **Safeguard your reputation by avoiding ethical breaches.**
- **Make the peer-review process fast and efficient with easy-to-follow etiquette guidelines.**
- **Links to additional useful content, including the ACS Guide to Scholarly Communication and ACS Reviewer Lab.**

Course Delivery:

Integrates directly into your learning management system.

Subject Matter Experts:

Prof. Peter Licence
The University of Nottingham

Prof. Osvaldo Oliveira
University of São Paulo

Estimated Time to Complete Course:

2.5 Hours

Course Modules:

1. Select the right journal

How to evaluate journal quality and goals, matching them to a manuscript's desired audience so authors submit to the right journal the first time. How to write a helpful pre-submission inquiry.

2. Showcase the significance of your work

Tips for crafting a strong title and abstract, plus how to use active, concise language to ensure that a manuscript appeals to readers.

3. Effectively describe your research

How to write a detailed outline that can turn into a strong manuscript by effectively conveying the authors' findings and methods in a way that promotes reproducibility. How to decide what goes into the manuscript versus supporting information.

4. Create publication-ready visuals

A thorough look at how to select the best visual elements for different types of data, with best practices for how to generate figures, tables, and table of contents graphics.

5. Finalize your manuscript for submission

The finishing touches that will get a manuscript ready for submission to the target journal, plus other elements such as the cover letter and suggested reviewers that authors will need upon submission.

6. Navigate the revision process

Common reasons that manuscripts are rejected and how to avoid them, with guidance on how to effectively respond to feedback from reviewers and editors.

7. Adhere to ethical guidelines

Guidance for selecting the final author list, understanding licenses and permissions, and avoiding unethical behavior such as plagiarism and improper image manipulation.

8. An academic writing approach for multilingual authors

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- *Biochemistry*
- *Chemical Reviews*
- *Chemistry of Materials* **(New!)**
- *Environmental Science & Technology*
- *Industrial & Engineering Chemistry Research* **(New!)**
- *Inorganic Chemistry*
- *Journal of Agricultural and Food Chemistry* **(New!)**
- *Journal of Chemical Education*
- *Journal of Medicinal Chemistry*
- *Journal of the American Chemical Society*
- *Langmuir*
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- *Nano Letters*
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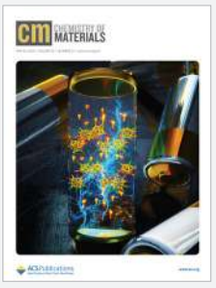
- *The Journal of Organic Chemistry*
- *The Journal of Physical Chemistry*
- *Chemical & Engineering News Global Enterprise*

ACS Core Plus provides access to our most read journals, including

Journal of the American Chemical Society



Chemistry of Materials

Industrial & Engineering Chemistry Research

The Journal of Physical Chemistry C

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[1] Tokens are not currently compatible with the new *ACS In Focus* book series.

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Who is it for?

With the increasingly interdisciplinary nature of science, it can be difficult to learn everything needed for a project. Because each eBook focuses on one topic, it's easy for **researchers** to get a technical overview of the subject.

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What's included?

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The **ACS Symposium Series** (1974–present) contains novel, peer-reviewed research developed from ACS technical division symposia. Each chapter is authored by an expert in the field, and the collection of chapters is edited by internationally recognized leaders in the field. The series covers a broad range of topics, including agricultural and food chemistry, cellulose and renewable materials, chemical education, organic chemistry, polymer chemistry, materials, and many others.

The **Advances in Chemistry** series is the predecessor of the ACS Symposium Series. This high quality, peer-reviewed book series was published from 1949–1998 to provide the research community an avenue to publish content and special topics beyond the scope of existing ACS journals.

You can choose recent books (2018–present), eBooks Archives (1949–2017), or a combination of both, and options are available for purchase or subscription depending on your institution's needs.

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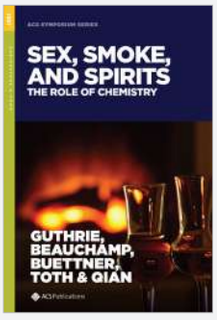

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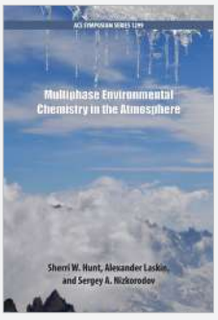

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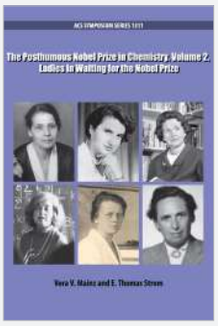
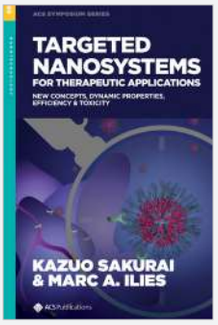


The Posthumous Nobel Prize in Chemistry. Volume 2. Ladies in Waiting for the Nobel Prize



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ACS CENTER FOR Lab Safety

ACS ESSENTIALS OF LAB SAFETY FOR GENERAL CHEMISTRY

Prepare students to enter the chemistry lab.

ACS Essentials of Lab Safety for General Chemistry provides an authoritative, easily-adoptable resource for use across general chemistry courses at both two-year and four-year institutions. Developed in collaboration with leading subject matter experts, the efficient user-driven course provides a solid learning experience to integrate chemical safety in general chemistry labs.

Academic organizations have a responsibility to ensure students responsibly enter the science lab with clear understanding of lab safety protocols and responsibilities. Before they perform initial experiments in the lab, **ACS Essentials of Lab Safety for General Chemistry** exposes students to critical concepts across chemical safety. The course incorporates RAMP, the core principles of lab safety – recognize, assess, minimize, prepare – providing consistent, foundational learning to reduce risk and liability in the science lab. Specifically, the intuitive course underscores the concepts of risk assessment, appropriate laboratory practices, and personal responsibility for safety.

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ACS ESSENTIALS OF LAB SAFETY FOR GENERAL CHEMISTRY

Establish consistent lab safety standards across student population:

- Prioritize lab safety as a core competency across a wide range of learners.
- Ensure students responsibly enter the science lab with clear understanding of lab safety protocols.
- Introduce common language, concepts, and skills of safety to promote consistent understanding.
- Increase student awareness of the potential dangers present in the lab and how to assess and minimize the risks from these hazards.
- Alert students about common lab incidents.
- Eliminate the need and time for faculty and staff to source or develop lab safety resources.
- Seamlessly integrate highly credible lab safety resource into the undergraduate curriculum.
- Track and monitor student compliance and understanding through turnkey learning management system (LMS) integration.
- Provide Administration peace of mind that students are receiving a common high-quality level of safety training across the entire science curriculum.

Course Delivery:

Integrates directly into your learning management system.

Subject Matter Experts:

Prof. Dominick Casadonte
Texas Tech University

Prof. Craig Merlic
UCLA

Prof. Weslene Tallmadge
Gannon University

Prof. Susan Wiediger
Southern Illinois University—Edwardsville

Estimated Time to Complete Course:

2 Hours

Course Modules:

1. Academic Success and Safety

Understand the importance of a positive safety culture and the student's role to play.

2. RAMP Framework

The basics of risk assessment with the RAMP framework.

3. Communication Matters

The role of chemical labels and GHS pictograms in recognizing common chemical, health, and physical hazards present in undergraduate labs.

4. Best Practices to Minimize Risks

How to prepare for, conduct, and clean up after experiments to minimize risks.

5. Prepare for Emergencies: Spills, Cuts, Burns, and Fires

Understand how to prepare for and respond to common emergencies and unplanned incidents that can occur in the undergraduate teaching lab.

6. A Day in the Lab—Capstone Simulation (which functions as the assessment)

Apply the knowledge gained through a simulated exercise.

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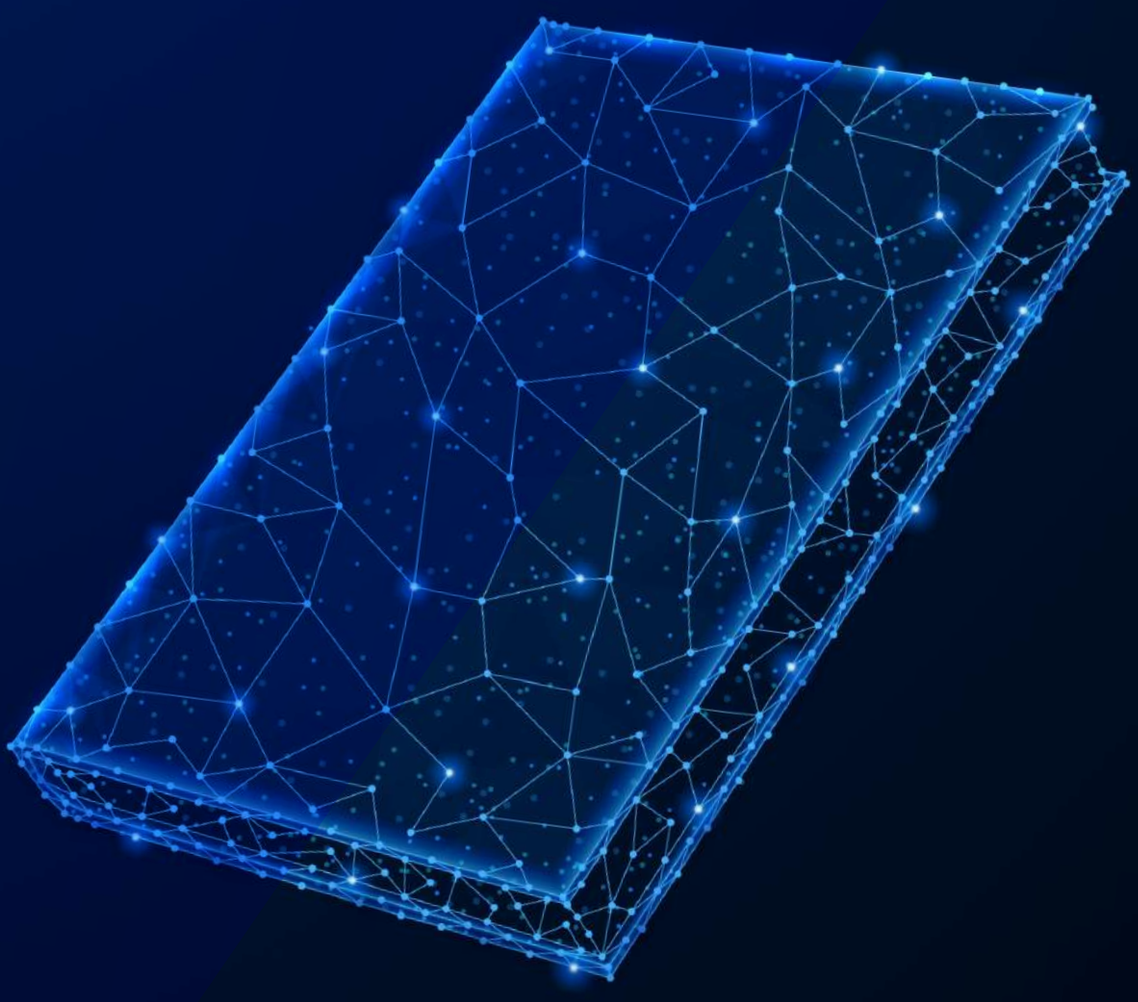

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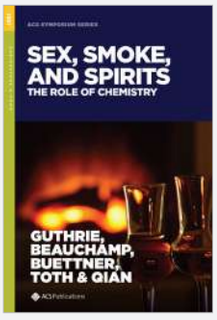

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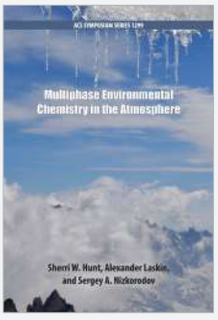

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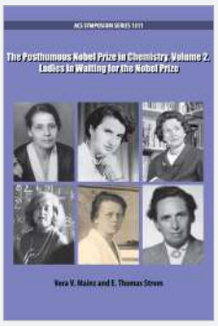

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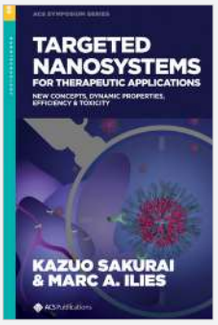

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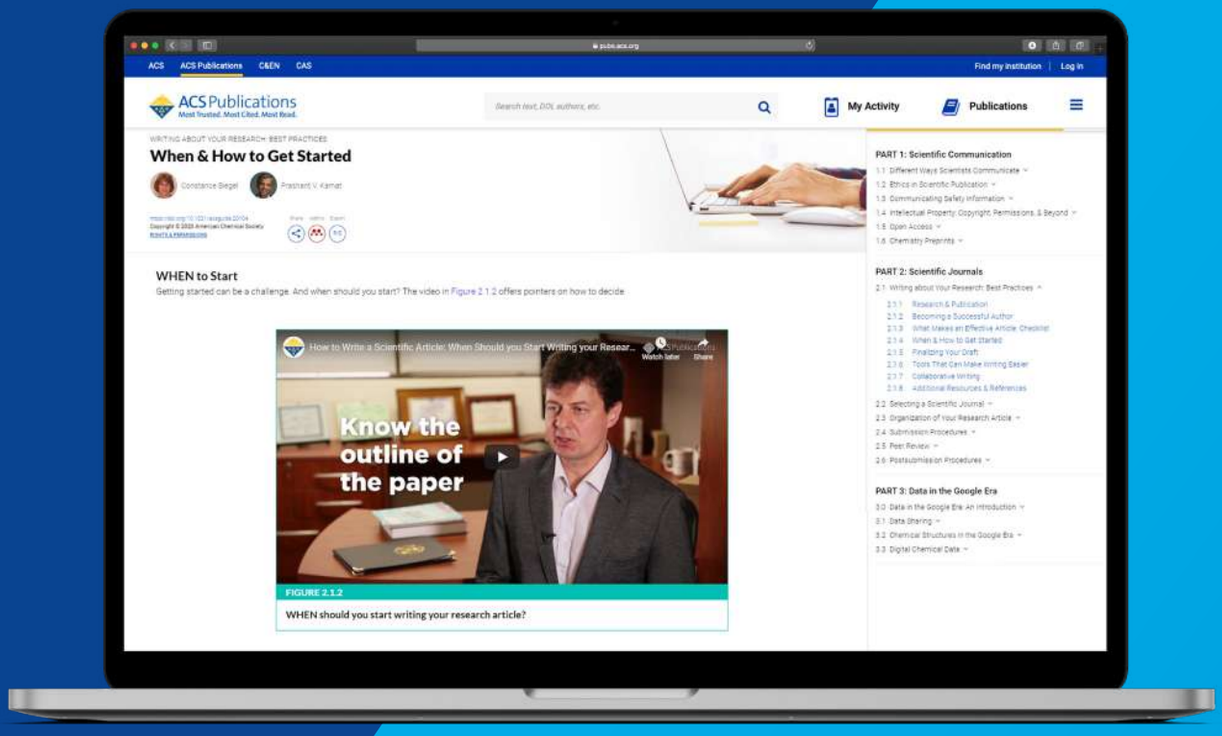
ACS GUIDE TO SCHOLARLY COMMUNICATION



Master scientific communication

The *ACS Guide to Scholarly Communication* provides the instruction and advice scientists need to master the art of scientific communication, from the laboratory to the boardroom. Topics explored apply broadly across multiple disciplines, and multimedia examples make difficult concepts easy to grasp. The new digital-first version continually evolves to reflect the most current information in a rapidly changing publishing and data sharing landscape.

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Effective communication is critical to success.

What is *ACS Guide to Scholarly Communication?*

The *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 externally, whether that's to other researchers in a journal or to an executive board at a company. With the volume of information in the world today, a resource like the Guide is an important tool to help students and researchers alike become more effective communicators.

Who is it for?

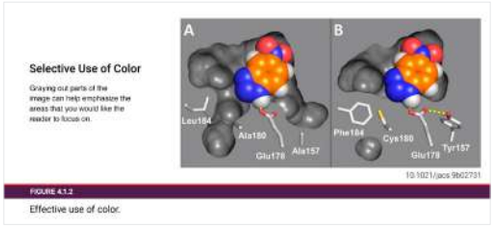
Any scientist who wants to improve their communication skill generally or to understand the scholarly publishing world, from the publishing process to data sharing.

Undergraduates: Learn how to write scientific papers and find key tips for notating difficult-to-articulate concepts. Not only does this help students self-teach scientific communication, it is a resource that can be applied early on during their studies to help with topics like chemical naming conventions.

Graduate Students: Learn everything you need to know about writing your first journal article. Real world examples help build clarity around complex concepts, and hyperlinking between chapters makes it easy to refer back to related topics. Also, gain insight into current issues surrounding scientific communication, such as Open Access and preprint servers.

Faculty: Provide a complete learning experience for students by including a comprehensive source for writing instruction. Integrate it into the curriculum or suggest it as an additional resource for students that need extra help.

Practicing Scientists: Find the most effective way to communicate your discoveries, whether it's in a journal or within your company. Also, gain insight into current issues surrounding scientific communication, such as Open Access and preprint servers.



Multimedia examples clarify difficult topics

What's inside?

The new *Guide* covers all instructions from previous editions of *The ACS Style Guide*—completely updated and modernized—as well as a wealth of brand new chapters covering everything from preprints, Open Access, machine-readable data, and much more. Additional content will be added regularly to expand on communication methods and data organization.

The Guide includes useful features, such as

- Multimedia examples to clarify complex concepts
- Hyperlinking between chapters makes it easy to refer back to related topics
- Regularly revised and expanded to include the most up-to-date information on existing and emerging topics
- Editors representing all areas of science, from journals to industry leaders, ensure all interests are included

How do I get access?

The Guide is available as a subscription. Contact your representative or visit pubs.acs.org/acsguide to get in touch.

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Who is it for?

Any scientist who wants to get up to speed on a topic outside of their current competencies can benefit from the *ACS In Focus* series.

Upper-level Undergraduates: Introduce budding scientists to emerging interdisciplinary and chemical topics. These books will help bridge the gap from undergraduate curriculum to active research and advanced learning. *ACS In Focus* titles help students grasp the real-world impact of the science they are learning.

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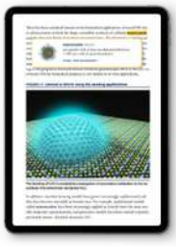
- **Check Your Understanding:** eight to ten end-of-book questions, with answers provided by video by the field's key players (with transcript)
- **Read These Next:** suggested content, often review articles to read after the e-book
- **A Day in the Life:** case studies of how a tool is used or the author's practical advice
- **Pop-up glossary:** quickly learn the definitions of key terms
- **That's a Wrap:** bulleted end-of-chapter summary



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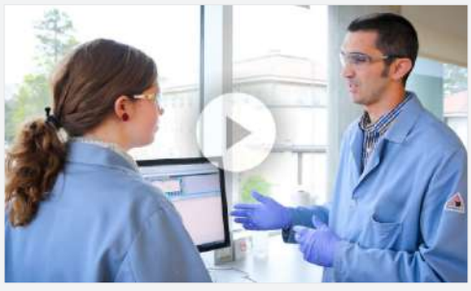

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The inaugural collection is available for purchase and contains 10 e-books that will be published in 2020 and early 2021. Subsequent collections are expected to include 20 or more e-books.

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ACS Institute
Learn. Develop. Excel.

Empower mastery. Promote excellence. Enable engaging learning.

Explore the ACS Institute, an ever-growing gallery of expert-developed, curated courses designed to meet a variety of needs, including lab safety, chemistry in practice, technical skills development, scientific communications, and leadership and professional development.

ACS Chemistry for Life®

ACS Institute
Empower. Promote. Enable. Optimize.

What is ACS Institute?

The ACS Institute is a comprehensive and authoritative learning platform supporting the broad scientific community across the spectrum of learning from foundational education, expanding career expertise, and professional development. The platform ensures a contemporary user experience and seamless integration into any learning environment.

The ACS Institute is comprised of seven ACS Centers which span critical areas of study, development, and expertise. Within each Center, there is a rich, ever-growing gallery of learning resources developed by subject matter experts.

- **ACS Center for Lab Safety**
- **ACS Center for Chemistry in Practice**
- **ACS Center for Technical Skills Development**
- **ACS Center for Scientific Communications**
- **ACS Center for Professional Development**
- **ACS Center for Leadership Development**
- **ACS Center for Volunteer Development**

Empower mastery across a broad range of learning.

ACS Institute centralizes and focuses learning through a gallery of curated educational resources. It supplements foundational knowledge, advances technical skills, and bolsters chemistry in practice. ACS Institute courses enhance core understanding and facilitate lifelong learning.

Promote excellence through market-leading, authoritative expertise.

The ACS Institute incorporates a broad range of expertise, content, and knowledge across all stages of career development. Researchers can enhance their technical skills and professional development through courses created by experts, and faculty can save time through ready-made selection of educational resources developed by leading subject matter experts. Even non-chemists can benefit from learning resources designed for professionals whose work brings them into contact with chemicals. All of this is available with the confidence that courses are peer-reviewed and vetted by experts.

Enable engaging, accessible learning.

Support and supplement varying learning environments with courses that are accessible anytime, anywhere through a dynamic learning portal that can be seamlessly integrated into any learning management system.

Optimize learner outcomes.

The growing gallery of ACS Institute courses provides opportunity for learners to choose the content they need to support learning the skills they need. Content is available for all stages of learners' careers, from introductory curriculum materials and emerging techniques to the skills needed for the boardroom.

Courses are designed for learners in a wide variety of industries, from healthcare to the laboratory

ACS AUTHOR LAB — Master the preparation and publication of **SCIENTIFIC MANUSCRIPTS**

ACS ESSENTIALS OF LAB SAFETY FOR **GENERAL CHEMISTRY**

CHEMISTRY IN PRACTICE **REDUCE THE SPREAD OF VIRUSES**

FUNDAMENTALS OF **MICROED**

How do I get access?

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Tap into research that is still assisting breakthroughs today.

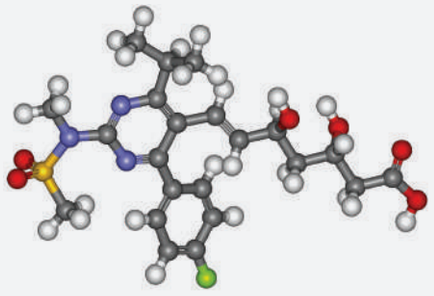
What is Legacy Archives?

ACS Legacy Archives enables researchers to reach through history to understand the chain of discoveries that led to modern chemistry and continues to advance modern discoveries in fields like biology, physics, medicine, agriculture, and engineering. The best minds from more than 100 years of chemistry are represented in the ACS Legacy Archives. The full-text searching capabilities of these articles resulted in nearly 7 million downloads in 2019.

What's included?

Legacy Archives includes all ACS journal content[1] published through 1995. That includes more than 460,000 articles spanning 117 years of scientific research. The ACS Legacy Archives are represented in all 80 Chemical Abstracts sections, demonstrating the depth and breadth of the Legacy Archives content.

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	1909–1970
Industrial & Engineering Chemistry Research	1962–1995
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



Drug Name: Rosuvastatin

Sold As: Crestor®

ACS Citations From Patent: US RE37314 E1

Relationship between tissue selectivity and lipophilicity for inhibitors of HMG-CoA reductase

Journal of Medicinal Chemistry, 1991
DOI: 10.1021/jm00105a071

Synthesis and biological activity of new HMG-CoA reductase inhibitors. 1. Lactones of pyridine- and pyrimidine-substituted 3,5-dihydroxy-6-heptenoic (-heptanoic) acids

Journal of Medicinal Chemistry, 1990
DOI: 10.1021/jm00163a010

Biosynthesis of the hypocholesterolemic agent mevinolin by *Aspergillus terreus*. Determination of the origin of carbon, hydrogen, and oxygen atoms by carbon-13 NMR and mass spectrometry

Journal of the American Chemical Society, 1985
DOI: 10.1021/ja00298a046

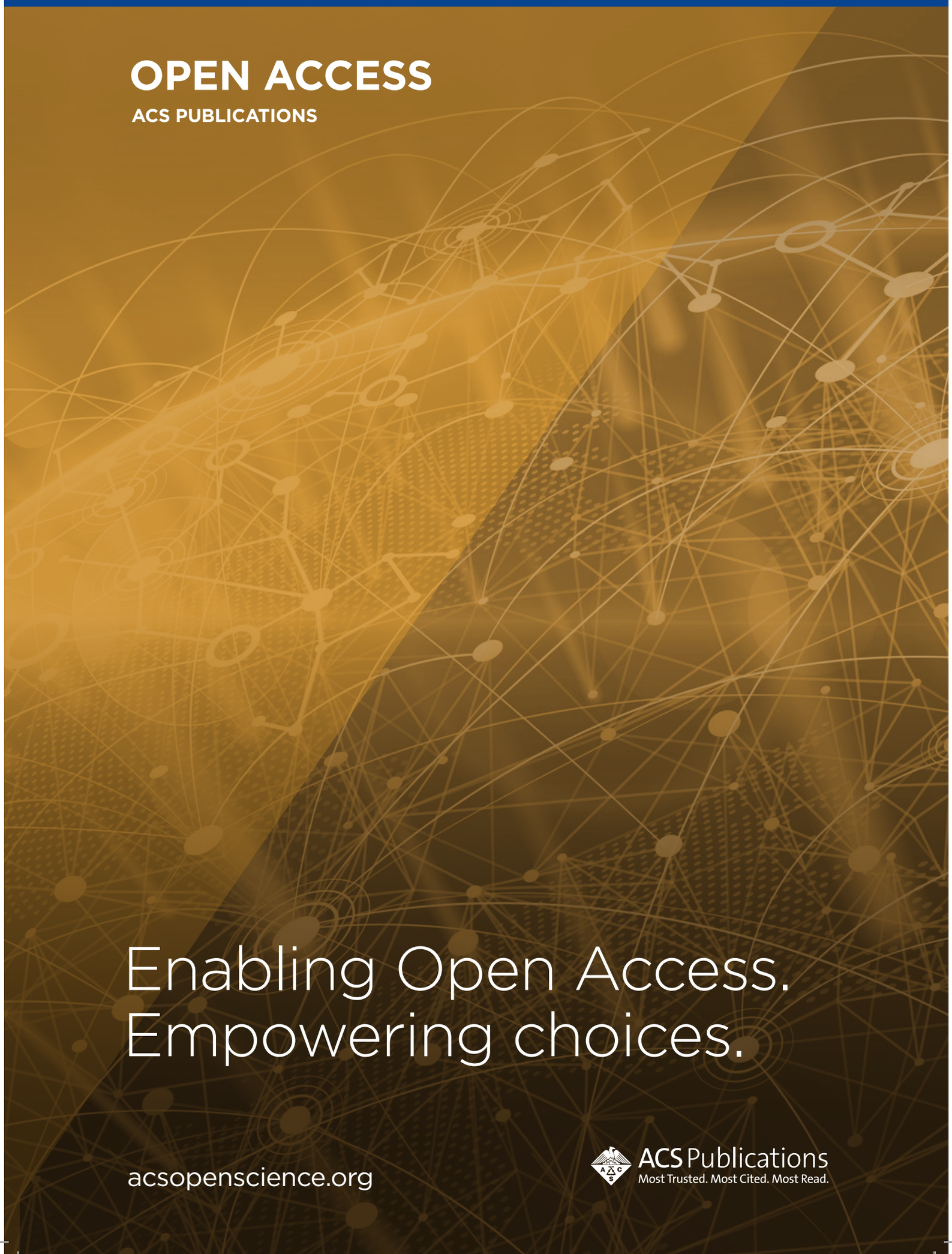
How do I get access?

Contact your sales representative **pubs.acs.org/salescontacts** or email us at **ACSPubsSales@acs.org** to review all acquisition options.

[1]Some journals' titles have changed over their lifespan. Coverage includes all titles under which a journal has appeared. Additionally, journals added to the ACS collection after 1995 are not included in the Legacy Archives, even when issues published prior to 1995.

OPEN ACCESS

ACS PUBLICATIONS



Enabling Open Access.
Empowering choices.

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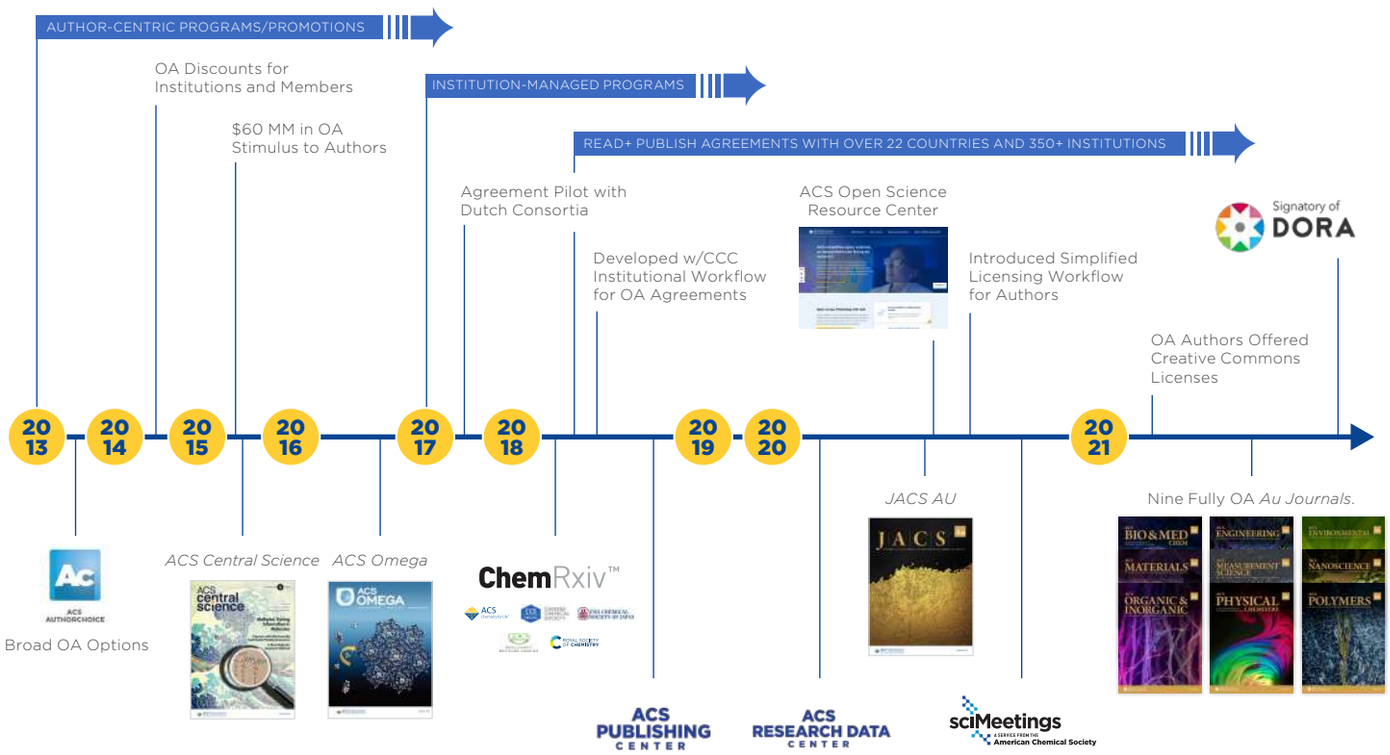
ACS makes open access easy.

At ACS, we've been enabling open access from the very beginning. From open access stimulus money to our partnerships to enable large-scale open access publication, we've made the innovations needed to empower authors to choose open access.

Even before Plan S encouraged wide adoption of open access publishing, ACS made sure authors had options. Prior to opening our journals to hybrid publishing in 2013, ACS freely allowed institutional repository deposits as part of every author agreement. More recently, ACS has been working to prepare the technological foundation needed to facilitate the Open Access movement. We've made significant investments in the systems and infrastructure to support the OA publishing transformation and will continue to invest in further development as the tools, systems, technologies, and processes evolve. In partnership with Copyright Clearance Center, we designed and developed a system that enables institutions to administer their open access publishing with ease.

ACS will continue to work with authors and institutions to enable the Open Access movement and to improve the world through the transforming power of chemistry.

An Enduring Commitment to Open Science



ChemRxiv™

ChemRxiv is a free submission, distribution and archive service for preprints in chemistry and related areas. It is sponsored by ACS and other chemical societies around the world.

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ACS Au Journal Program

For authors who desire or are required to publish in a fully open access journal, the ACS Au (Gold) suite of journals allows for the rapid dissemination of cutting edge, high impact research across the breadth of chemistry and all areas intersecting with chemistry. *JACS Au* was the first title to launch in 2020, and the remaining nine launched in 2021.

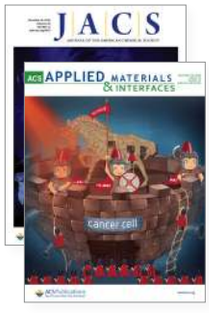
ACS Central Science

ACS Central Science publishes the most compelling, important primary reports on research in chemistry and in allied fields, wherein chemical approaches play a key role. It is also the first fully open access journal published by the American Chemical Society.

ACS Central Science is entirely open access, with no subscription fees or article publishing charges for authors who publish under the default license CC-BY-NC-ND.

ACS Omega

ACS Omega is a global open-access journal for the publication of scientific articles that describe new findings in chemistry and interfacing areas of science, without any perceived evaluation of immediate impact. Authors can choose the CC-BY or CCBY-NC-ND license.



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Beginning in 2013, ACS has provided the option to publish open access in any of our 60+ journals under our ACS AuthorChoice program. Authors may choose immediate or 12-month post-publication open access. Beginning in 2021, ACS will streamline the licensing process by using standard CC-BY and CC-BY-NC-ND Creative Commons licenses.

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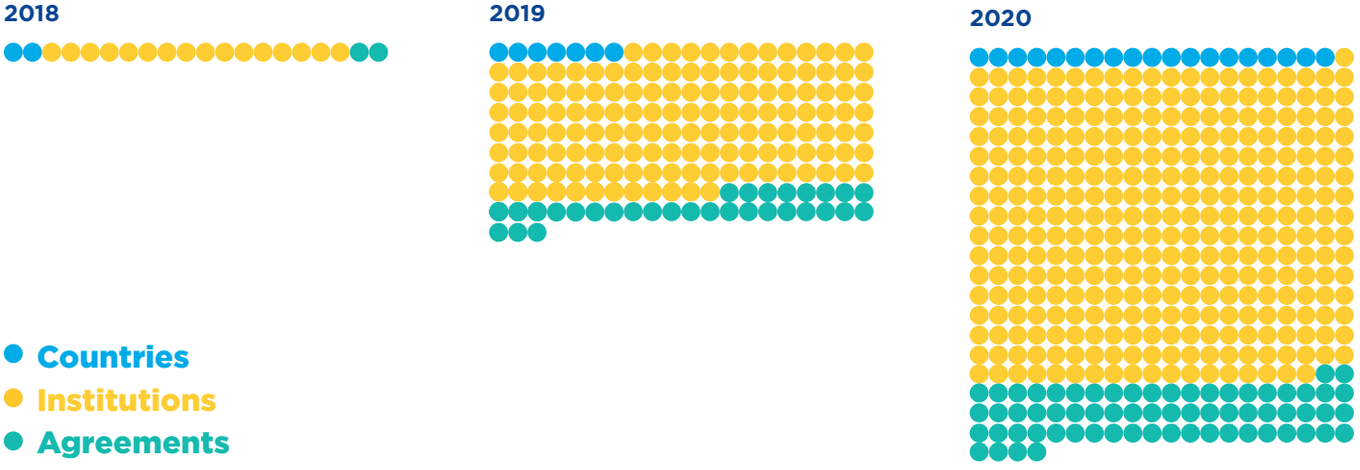
ACS Read + Publish Agreements

Supporting the transition to open science

ACS Read + Publish Agreements sustainably support open access publishing by helping authors and institutions meet their publication goals in any of ACS's premier journals, while ensuring that researchers have full access to ACS journal content. With an innovative publishing workflow developed in partnership with the Copyright Clearance Center, the Agreements give authors and administrators a seamless, time-saving publishing experience and support the open science movement.

Significant momentum

in ACS Read + Publish Agreements



90% **more open access articles published under ACS Read + Publish Agreements***

*1Q YOY growth, 2020–2021

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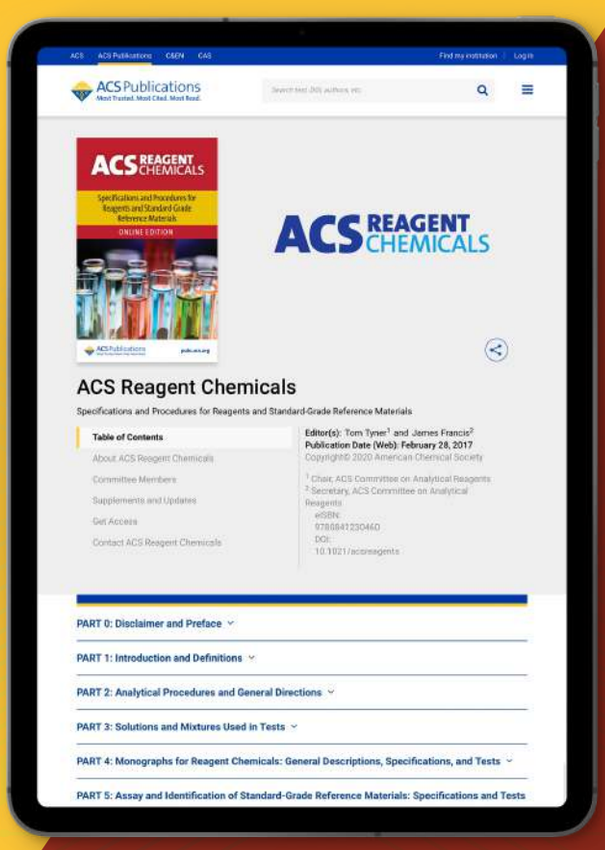
ACS REAGENT CHEMICALS



The essential reference for analytical reagents

ACS Reagent Chemicals provides a single-resource solution for any scientist who needs to understand or apply ACS approved methods and specifications for analytical reagents. This reference work has everything needed to ensure the chemicals used in laboratory and manufacturing settings adhere to the standards necessary to safeguard accuracy and safety.

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Save time and eliminate mistakes

What is ACS Reagent Chemicals?

The ACS Committee on Analytical Reagents sets purity specifications for almost 500 reagent chemicals and over 500 standard-grade reference materials. In addition, ACS Reagent Chemicals provides general physical properties and analytical uses for all reagent chemicals as well as guidelines for ACS Approved analytical methods, tests, and standards solution preparations.

These specifications and methods have become the de facto standards for chemicals used in many high-purity applications. ACS Reagent Chemicals is often referenced by organizations that set requirements for products in industries such as pharmaceuticals and aerospace, and organizations like the US EPA requires its methods and chemical purities.

As with all of ACS's other resources, there are no seat or simultaneous-user limits.

What is the ACS Committee on Analytical Reagents?

ACS Committee on Analytical Reagents is an independent body created to set reagent standards and develop test methods. The more than 25 members represent all areas of the chemical enterprise—industry, academia, and government—to ensure a balanced approach to developing standards.

Who is it for?

Manufacturers: Safeguard products by ensuring they comply with requirements from governing body organizations. The new online version includes a sticky search box and hyperlinking to make finding information fast and easy.

Corporate Researchers: Develop your techniques by starting with well-established methods and ensure lab experiments produce the same results that will be seen during large-scale production to ensure a smooth transition.

Faculty: Know exactly what's allowed in the reagent-grade chemicals used in the lab and start with well-established methods when developing your techniques. Plus, expose students to a resource they will be using in industrial practice while they're still in the classroom.

Students: Leave school with practical knowledge of a resource often used in industrial and research settings. ACS Reagent Chemicals also provides important safety notifications and a starting point for developing new test methods. Plus, there are useful physical properties of each chemical as well as a list of useful equations and conversions, making it easy to find everything you need in one place.

Why is this now available only online rather than as a printed book?

Standards can change quickly, and we're committed to making sure everyone stays up to date easily. Online-only provides a dynamic environment where it's easy to stay up to date without flipping through pages of revisions.

We've made other useful improvements, including

- Mobile-friendly operation
- Live links between reagents and methods
- HTML or printable PDF formats
- Permanent URLs to the current version
- A quick-glance summary of historic changes and historic versions available
- Full-text and keyword searching—find chemicals by IUPAC or common name, CAS number, formula weight, and more
- Highlights for safety issues, handling requirements, and stock solution preparations
- Clickable, copiable MathJax™ equations that provide easy transfer to LaTeX, Word, and others

Acetone

IR Spectroscopy

ACS REAGENT CHEMICALS

1903 The Committee on the Purity of Chemical Reagents, later known as the ACS Committee on Analytical Reagents, is established.

1925 Early specifications are published in *Industrial and Engineering Chemistry* (I&EC).

1950 The First Edition of Reagent Chemicals publishes as a standalone book based on previous specifications published in I&EC.

1961 The Fourth Edition collects new analytical methods into Reagent Chemicals, including flame emission spectroscopy.

1993 The Eighth Edition adds gas chromatography, atomic absorption, and coulometric methods.

2005 The Tenth Edition celebrates 100 years and adds ICP-MS methods, better indexing, and "greener testing" methods.

2017 The new online edition of ACS Reagent Chemicals, based on the Eleventh Edition, goes live.

How do I get access?

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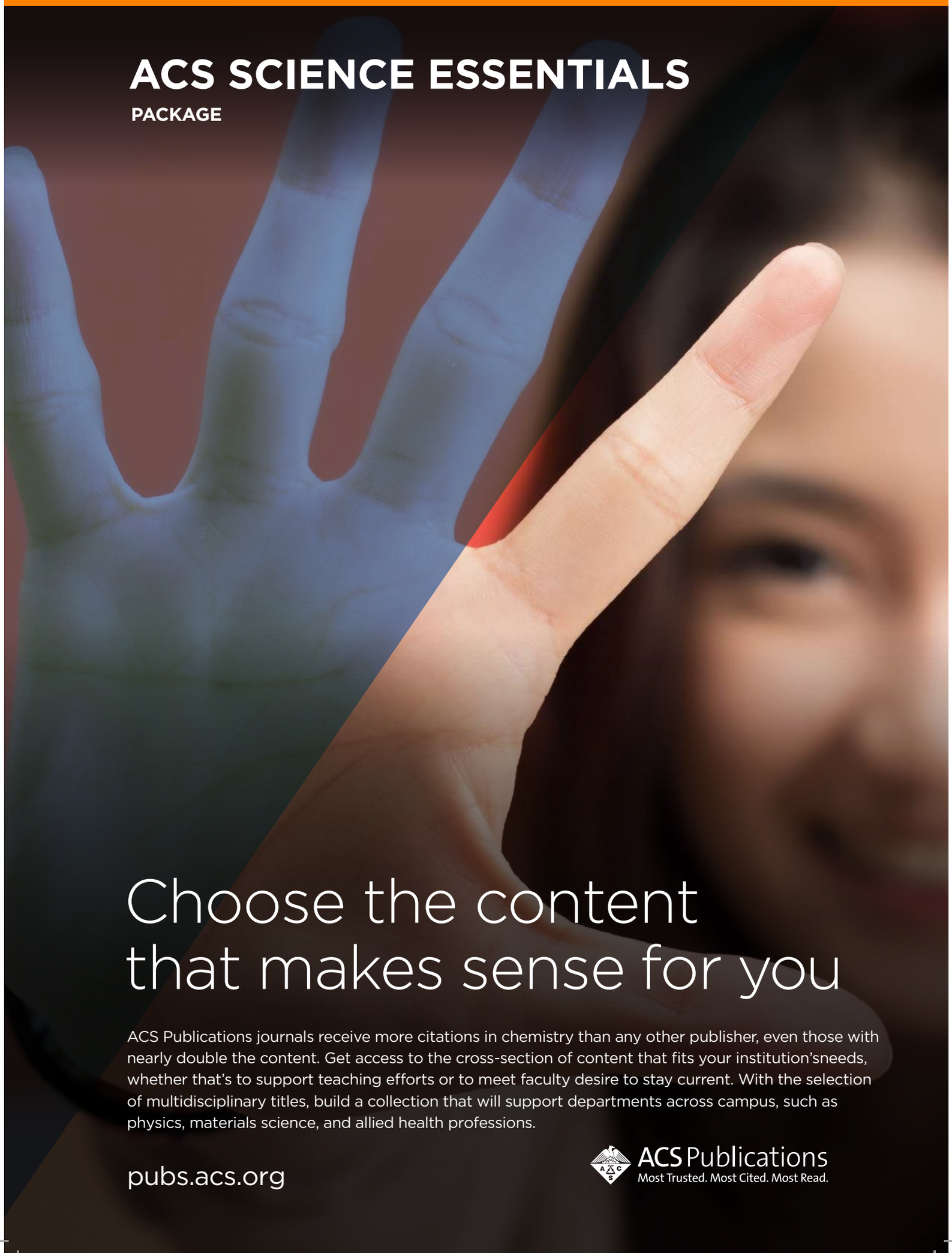
09.18.20



ACS SCIENCE ESSENTIALS

PACKAGE

Choose the content that makes sense for you

ACS Publications journals receive more citations in chemistry than any other publisher, even those with nearly double the content. Get access to the cross-section of content that fits your institution'sneeds, whether that's to support teaching efforts or to meet faculty desire to stay current. With the selection of multidisciplinary titles, build a collection that will support departments across campus, such as physics, materials science, and allied health professions.

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What's included in the ACS Science Essentials Package?

Choose five ACS online journals from more than 65 titles, with no limitations on your journal selections. That means you can tailor this package to fit the needs of your institution. Focus on a specific area like materials science, medicinal chemistry, or environmental engineering or build a multidisciplinary collection to serve a broad range of departments.

Why choose ACS Publications?

ACS Publications journals are the most cited in chemistry, providing a better return on your investment. Eleven of our journals rank #1 in Impact Factor or total citations, and 78% rank in the top quartile of their subject category based on Impact Factor.

Our journals include research from a full cross-section of disciplines, making them valuable to departments outside of chemistry. In fact, more than 58% of articles that cite ACS Publications are classified as outside the core chemistry categories.

With more than 65 possible options, how do I narrow it down?

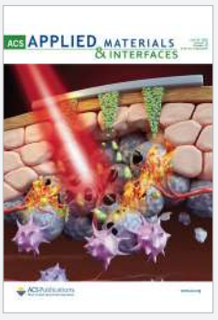
There are many different ways to tailor the selections to your institution. Choose titles based on the subject areas of degrees offered, such as such as biological sciences, applied science, or science education. Or choose titles that cover a wide breadth of disciplines to offer a cross section of content.

Want to include current events in your science curriculum? Choose C&EN Global Enterprise as one of your options and equip your school with global science news written by experts.

What if I need access to more?

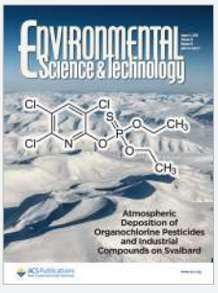
Upgrade your Science Essentials package by adding individual journal subscriptions, references, or even a package of tokens that may be used to access almost all additional resources[1]—even archives.

Journal of the American Chemical Society
556,223 Citations



ACS Applied Materials & Interfaces
214,885 Citations

Chemical Reviews
200,014 Citations



Environmental Science & Technology
187,990 Citations

2019 Journal Citation Reports, Clarivate Analytics, 2020

How do I get access?

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[1] Tokens are not currently compatible with the new *ACS In Focus* book series.


ACS tdm
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Unleash the full potential of scientific information.

What is Text & Data Mining (TDM)?

Text & Data Mining is the process of aggregating large amounts of information and applying computing techniques to analyze and filter that mass into meaningful elements, such as trends. When it comes to mining literature, those sources may include full text, metadata, graphics, lexicons, and even supporting information.

TDM employs machine learning, complex algorithms, and artificial intelligence (AI) to perform sophisticated analyses. This helps extract relationships and trends that don't typically surface via traditional techniques.

Why use TDM?

- Accelerate data discovery and preparation. With TDM, organizations discover trends in published material more rapidly and reliably.
- Achieve a competitive edge by using accurate and timely information to guide decision-making and advance R&D.
- Gain fresh insight by discovering patterns and relationships that are often invisible without TDM and AI analyses.
- Enhance processes and find cost-saving efficiencies for R&D and manufacturing.
- Equip legal, patent, and regulatory departments with data-driven evidence.

"The goal is to turn data into information and information into insight."

– Carly Fiorina, former CEO, Hewlett Packard

Expand Your Capabilities

ACS Online books and journals offer a wealth of information for those seeking to learn about TDM-related concepts like machine learning.

Who is it for?

Regardless of job title, field, or industry, if you are ready to use information to **predict trends** and **make evidence-based decisions**, TDM may be right for you.

Customized solutions

Let us know about your organization's unique needs or connect with us to explore the possibilities.

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c&en
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What is C&EN?

C&EN's experts gather and deliver scientific news and stories from academia, industry, and beyond that can't be found anywhere else. By bringing it to our award-winning platform, all ACS content—eBooks, journals, news, and reference materials—is now available in one place. A single search location to review results from all content gives readers historic and contextual perspective right alongside peer-reviewed science.

Get weekly news with issues from 1923 to the present, fully searchable and including all original content—even ads.

What are the useful features of online access?

C&EN now has enhanced benefits for libraries, readers, and organizations who subscribe.

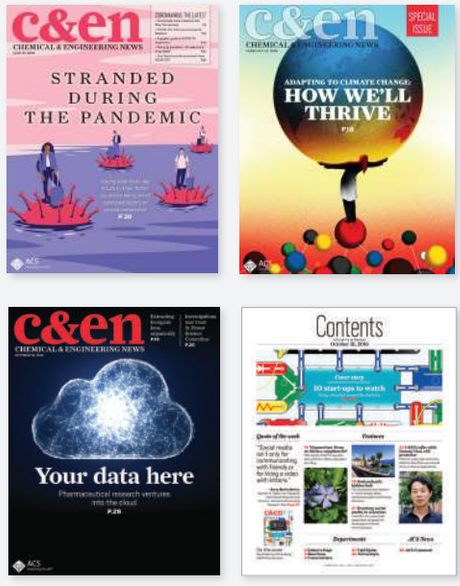
- COUNTER-compliant usage and denial statistics for C&EN Global Enterprise integrated into library reports.
- Fresh user experience at the issue and article level.
- Lasting digital edition of record for C&EN, so you can get away from physical collections.
- News alongside journal articles with similar content gives readers greater context and currency.
- Enhanced full-text discoverability right alongside journal results when searching. This brings readers current news alongside the topics they are searching for in peer-reviewed literature.
- As always, C&EN Global Enterprise delivers balanced science news and feature stories from across the globe, curated and written by the experts, to help you build a more informed organization.

Can I get only recent content?

As with all ACS products, there is no limit to the number of users who can access at once. C&EN is partitioned into more current issues and archival material to fit the needs of your institution.

C&EN Global Enterprise provides access to current issues of C&EN as well as back issues starting in 2016. It's available as a yearly subscription and includes both PDF and HTML formats for all content.

C&EN Archives provides access to all content from 1923 through 2015. This content is available in high-resolution, fully searchable PDFs—bringing history back to life—with the ability to print and save content.



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ACS CENTER FOR Chemistry in Practice

CHEMISTRY IN PRACTICE
REDUCE THE SPREAD OF VIRUSES

Reduce risk with science-based guidance

Organizations, now more than ever, have a responsibility to set standards and gain compliance across their broad range of personnel to reduce the risks and spread of viruses. **Reduce the Spread of Viruses** takes an evidence-based approach ensuring science-led recommendations and actions, while increasing scientific understanding regarding the effectiveness of masks, handwashing, social distancing, and other preventive measures.

Developed in collaboration with leading experts in infectious diseases, medicinal chemistry, and healthcare, the practical user-driven course provides a highly credible resource that can be seamlessly integrated into any learning environment.

ACS Institute
Learn. Develop. Excel.

CHEMISTRY IN PRACTICE
REDUCE THE SPREAD OF VIRUSES

Train with impactful, evidence-based guidance.

- **Trust in evidence-based accuracy with all content reviewed by expert authors practicing in relevant fields of healthcare.**
- **Enable understanding of the chemistry behind infectious diseases and prevention through critical information and research that has been synthesized by experts.**
- **Provide insights highlighting the research behind the range of recommendations along with concrete examples that motivate learners to change their behaviors.**
- **Gain additional consistency and compliance through a common glossary of terms - explained in clear and relatable ways.**
- **Provide personnel with a handy, intuitive risk-assessment tool to assess the danger inherent in common social and professional interactions.**
- **Allow learners to assess their knowledge via a gamified real-world capstone module.**

Course Delivery:

Integrates directly into your learning management system.

Subject Matter Experts:

Dr. Poonum Korpe, M.D.
Johns Hopkins University

Estimated Time to Complete Course:

2 Hours

Course Modules:

1. How a virus spreads

Learn about viruses that cause respiratory infections, how a virus spreads, 6 factors about droplets, and what makes an outbreak severe.

2. Wearing and caring for masks

Understand how masks work, effective wearing of masks, and caring for your mask properly. Access research from ACS Publications on fabric and layers of masks.

3. Effective hand hygiene

Learn about effective hand washing, plus how much soap to use, how hand sanitizer works, which is most effective, and more.

4. Recommendations on gloves and face shields

Find out when and if gloves and face shields are recommended. Understand the difference between droplet transmission and indirect contact transmission.

5. Navigating group situations

Evaluate the concentration of the virus in the air and the protective actions to take. Understand personal risk and when to social distance with a risk-assessment calculator.

6. Cleaning and disinfecting

Learn the three most common mistakes when using disinfectants. Understand how disinfectants work and what needs to be disinfected, plus a “Learn More” link to the CDC Decision Tree on cleaning and disinfecting surfaces.

7. How we fight a virus

Understand the difference between the body’s natural defense systems, vaccines, antivirals and other treatments. Address frequently asked questions around herd immunity, safely developing vaccines, and testing.

7. Capstone: A Day in the Life

In a final self-assessment capstone module, learners will be evaluated on key takeaways and lessons learned. Upon completion, learners receive a Chemistry in Practice: Reduce the Spread of Viruses certificate.

ACS CENTER FOR Technical Skills Development

FUNDAMENTALS OF MICROED

Expand your characterization toolkit

Fundamentals of MicroED delivers baseline understanding of microcrystal electron diffraction (microED). MicroED is an emerging method that addresses the need for fast and reliable structure determination, significantly impacting the fields of synthetic chemistry, natural products chemistry, drug discovery, and many other research areas.

Developed by leading subject matter expert, Professor Hosea Nelson from UCLA, **Fundamentals of MicroED** focuses on foundational application and understanding of the MicroED process while incorporating essential, practical examples to solidify understanding. The course is geared toward researchers, graduate-level trainees, postdocs, and faculty who are looking to innovate their research with synthesized compounds by adding a new characterization and identification technique.

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FUNDAMENTALS OF MICROED

Build foundational understanding of emerging molecule characterization method.

- **Provide an authoritative, insightful, expert-development resource that is easily integrated into any learning environment.**
- **Level-set consistent understanding across lab personnel through highly-credible, comprehensive resource.**
- **Solidify understanding through real-world exercises and examples that help learners to quickly apply concepts to challenges they encounter in the lab.**
- **Innovate research through comprehensive knowledge and immediate application.**
- **Get researchers up to speed quickly on an innovative new method that will save time in the lab.**

Course Delivery:

Integrates directly into your learning management system.

Subject Matter Experts:

Prof. Hosea Nelson
UCLA

Estimated Time to Complete Course:

2 Hours

Course Modules:

1. Introduction to MicroED

An introduction to MicroED and its unique role in molecule structure characterization. Other common methods for characterization are discussed along with their limitations and advantages.

2. Basics of Electron Crystallography

A theoretical description of electron diffraction where the process of structure refinement is outlined along with a general overview of the collection of diffraction data.

3. Performing MicroED Experiments

Outline of the sample preparation and data collection process. Content includes common tips such as selecting the right sample grid, loading the sample, and valuable commentary on other critical steps in the process.

4. Structural Accuracy, Rigor, and Statistics

Presentation of statistical values encountered during the structure refinement process and how this impacts the estimation of model quality.

5. Appropriate Applications of MicroED and Preparing to Collaborate

Description of when to use MicroED as a characterization technique and how to identify and work with collaborators to successfully get samples analyzed.

WHAT'S NEW

ACS PUBLICATIONS

New Publications, Products, and Services

Spring 2021

Despite the challenges the world is experiencing, scientists are still publishing more than ever. Through the second half of 2020, we set new records for the most articles we've published in each calendar month. Read more on the factors influencing this record-setting growth in our article on **axial.acs.org**.

As a mission-driven society, we're committed to supporting scientific growth. Over 2020 and into 2021, we'll experience the retirement of one journal and the introduction of a broad array of exciting publications, products, and services.

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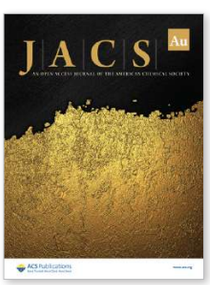
One journal retired and eight new titles in two years

This year, subscribers enjoy the addition of three new titles, *ACS Chemical Health & Safety*, *ACS Materials Letters*, and the *Journal of The American Society for Mass Spectrometry*. At the end of 2020, *ACS Combinatorial Science* will be closed to new articles. All existing content will remain available to subscribers and new content on the topic will be considered for publication in other ACS multidisciplinary and specialty journals.

New journals to be part of the 2021 ACS All Publications package will include:

- ***Accounts of Materials Research***
- ***ACS Agricultural Science & Technology***
- ***ACS ES&T Engineering***
- ***ACS ES&T Water***
- ***ACS Food Science & Technology***

Institutional Read & Publish options and 10 new OA journals



To date, ACS has collaborated with hundreds of institutions worldwide to establish comprehensive Read & Publish agreements, helping organizations centralize and unite management of journal subscriptions and open access publishing. In addition, over the coming months ACS will introduce 10 new open access journals, each with an independent editorial team. Starting with JACS Au (pronounced "JACS Gold"), these journals will support authors' funding requirements for open science publishing.

ACS Institute

Join the ACS Institute, with online courses designed to provide authoritative, curated content that is available anytime, anywhere. Content will be available to fit a variety of needs, including lab safety, chemistry in practice, technical skills development, scientific communication, and leadership and professional development.

A new book series

In early 2020, the new *ACS In Focus* book series began publishing the first of 10 titles expected in the Inaugural Collection. These media-rich e-books help readers of all levels accelerate their fundamental understanding of emerging topics and techniques from across the sciences.

New and improved options for library acquisitions

- **Evidence Based Acquisition** helps institutions select the quantity and individual titles they want to own based on the metrics they value most
- **ACS Core Plus Package** expanded to 21 titles in order to meet libraries' demand for more titles in our intermediate package
- **ACS Teaching Package** was introduced to bring 2-year colleges top pedagogical journal, book, and news content for their science educators

Advanced Solutions for Authors

- **SciMeetings,** an affordable service for National Meeting presenters to formally publish their work with a DOI, gaining the author both credit and additional exposure
- **ACS Author Lab,** a fee-based online training course, a part of ACS Institute, that empowers authors to prepare and submit strong manuscripts (free to institutional subscribers of the *ACS Guide to Scholarly Communication*)
- **ACS Research Data Center,** a free tool to assist authors in managing the ever-growing amount of data and files required for article submission