

Scope of the Journal

[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. Articles in *ACS Omega* should advance the frontiers of science through original ideas, even if the full significance is not known. *ACS Omega* disseminates this knowledge globally and quickly by immediately making all accepted articles open access in perpetuity. Papers published in *ACS Omega* are therefore available to a much wider readership that includes industry, policy institutions, the media and the public, in addition to the traditional academic sector.

Manuscript Types

ACS Omega publishes original Research Articles, Perspectives, Mini-Reviews, and Viewpoints. Submissions are based on original work not previously published.

Research Articles. Reports of original research with chemical connections. Emerging multidisciplinary fields are especially encouraged; however, research submitted to the journal should be hypothesis driven or lead to a hypothesis. No minimum length requirement is imposed for original submissions, noting that for *ACS Omega* content traditionally considered as letters or rapid communications as well as full articles all fall into the category of Research Articles. The Editors request that authors explain their findings concisely and accurately. Authors are encouraged to use Supporting Information as appropriate. *ACS Omega* will publish Research Articles describing negative results. These are intended to contain three main components: a valid hypothesis that is expected to answer a relevant scientific question, scientifically rigorous research, and results that do not uphold the initial hypothesis. The results are then negative but can be of importance to researchers in the field or can give rise to a new hypothesis.

Perspectives. (by invitation only) are concise, peer-reviewed reports highlighting an emerging topic of broad interest. These reports are not intended to be a comprehensive look at the field but rather to place a particular research finding into broader context. The emphasis should be on the future outlook of an emerging topic rather than a historical overview of it. Perspectives should include an abstract, an appropriate number of references, and a TOC/Abstract graphic and a Future Outlook section. Authors of Perspectives are encouraged to also submit a video (3-5 min clip) highlighting the theme of their Perspective. Perspectives are invited by the Editors, but authors interested in submitting a Perspective should contact the journal prior to manuscript preparation and submission to seek conditional approval of the proposed topic. One-page proposals should be sent to the Managing Editors (managing.editor@omega.acs.org) for consideration.

Mini-Reviews. Mini-Review Articles are short reviews focusing on the most recent developments in an area. They are approximately 20 single-column A4 typed pages with 1.5 line spacing, excluding figures and references. References should be limited to 25-30. Mini-Reviews should include an Abstract and a TOC graphic and possess a Future Outlook section. In addition, authors are requested to include a brief biography. Authors need to submit proposals to the Co-Editors, Associate Editors and Managing Editors (managing.editor@omega.acs.org) for consideration. Mini

Review articles are preferred in interdisciplinary areas between Chemistry and other disciplines. We also welcome Mini Reviews on emerging techniques, tools (imaging microscopy, spectroscopy and so on), cell assays, new analytical methods and new computational methods and so on.

Viewpoint. (by invitation only). Viewpoint manuscripts are meant to provide general commentaries, tutorials, or educational insight into a research problem of interest to the journal's broad readership. They may express critical scientific analysis / personal views on exciting topics, including issues around STEM research, to encourage dialogue within the community. Viewpoints are not intended to be reviews of the literature and must not include new scientific data. A Viewpoint must contain a Table of Contents graphic and an abstract, which should be a 2-5 sentence summary. Suggested limits are 2,000 words and no more than 2 figures, with no restriction on the number of references. All submitted Viewpoints will be rigorously editorially reviewed by at least two *ACS Omega* editors for content and the importance of the topic. Following the editorial review procedure, select articles will be sent out for peer review for final assessment at editorial discretion. If you have a topic that you wish to be considered for publication as a Viewpoint, please contact the Managing Editor office (managing.editor@omega.acs.org).

ACS Publishing Center

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- [Mastering the Art of Scientific Publication](#), which shares editor tips about a variety of topics including making your paper scientifically effective, preparing excellent graphics, and writing cover letters.
- Resources on [how to prepare and submit a manuscript](#) to ACS Paragon Plus, ACS Publications' manuscript submission and peer review environment, including details on selecting the applicable [Journal Publishing Agreement](#).
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- [ACS Reviewer Lab](#), a free online course covering best practices for peer review and related ethical considerations.

Manuscript Preparation

Submit with Fast Format

All ACS journals and partner journals have simplified their formatting requirements in favor of a streamlined and standardized format for an initial manuscript submission. Read more about the requirements and the benefits these serves authors and reviewers [here](#).

Manuscripts submitted for initial consideration must adhere to these standards:

- Submissions must be complete with clearly identified standard sections used to report original research, free of annotations or highlights, and include all numbered and labeled components.
- Figures, charts, tables, schemes, and equations should be embedded in the text at the point of relevance. Separate graphics can be supplied later at revision, if necessary.
- When required by a journal's structure or length limitations, manuscript templates should be

used.

- References can be provided in any style, but they must be complete, including titles. For information about the required components of different reference types, please refer to the [ACS Style Quick Guide](#).
- Supporting Information must be submitted as a separate file(s).

Acceptable Software, File Designations, and TeX/LaTeX

See the list of [Acceptable Software](#) and appropriate [File Designations](#) to be sure your file types are compatible with ACS Paragon Plus. Information for manuscripts generated from [TeX/LaTeX](#) is also available.

Cover Letter

A cover letter must accompany every manuscript submission. During the submission process, you may type it or paste it into the submission system, or you may attach it as a file.

A cover letter should accompany each original submission. Recommended information includes the following:

- title
- name of the corresponding author, title, affiliation, and institute e-mail address
- a synopsis of the article
- a point-by-point response to reviewer comments (for resubmissions).

All Editorial correspondence concerning receipt, status, review, revision, and publication of a manuscript will be sent only to the designated corresponding author during the evaluation period. The corresponding author is responsible for communicating the manuscript status to all co-authors of the manuscript and for obtaining the co-authors' assent to any substantial changes of content or interpretation made during revision.

Manuscript Text Components

Given the broad reach and the open availability of all content in *ACS Omega*, remember that chemists, scientists in related disciplines, and the broad public will read articles published. When writing, seek to communicate the science in a way that is accessible to all scientists.

Title. Titles should clearly and concisely reflect the emphasis and content of the paper and be accessible to a broad audience. Titles are one of the most important tools for current awareness and information retrieval—they provide readers a first opportunity to understand the purpose of the article. Authors should avoid uncommon abbreviations in titles. It is recommended that the length of titles not exceed 15 words.

Author List. Include all who have made substantial contributions to the work. To facilitate indexing and retrieval and for unique identification of an author, use first names, initials, and surnames (e.g., Katherine M. Jones) or first initials, second names, and surnames (e.g., K. Mary Jones). At least one author must be designated with an asterisk as the person to whom correspondence should be addressed.

Institution Address. The author affiliation(s) listed should be the institution(s) where the work was conducted. If the present address of an author differs from that at which the work was done, that

address should be given in an Author Information note.

Many Funders and Institutions require that institutional affiliations are identified for all authors listed in the work being submitted. ACS facilitates this requirement by collecting institution information during manuscript submission under Step 2: Authors and Affiliations in ACS Paragon Plus.

Abstract. All Research Articles should contain an abstract, including an Abstract (TOC) graphic, which should state the purpose of the research briefly and provide a succinct, informative summation of the most important results and conclusions. Pasting the abstract in the text box on the Web submission page does not replace the need for including an abstract in the manuscript document.

Introduction. Clearly state the purpose of the research and put it into the context of earlier work in the area, aiming for brevity.

Results and Discussion. Authors can provide a unified “Results and Discussion” section or separate sections with “Results” and “Discussion”. Explain the motivation for the work. Present results concisely. The discussion should interpret the results and relate them to existing knowledge in the field and explain the advance made by these results. To conserve space, please submit supplemental information in a separate file for online Supporting Information (note, all content submitted is subject to review).

Conclusions (Optional heading). This section briefly summarizes the principal conclusions of the work and is recommended.

Methods (Optional heading). Provide a clear, unambiguous description of materials, methods, and equipment in sufficient detail to permit repetition of the research either within the body of the Article or under a separate, optional “Methods” heading. Describe experimental procedures in detail, but published procedures may be referred to by literature citation of both the original and any published modifications. Extensive descriptions of methods may be included as Supporting Information. Articles reporting data from experiments on live animals must include a statement identifying the approving committee and certifying that such experiments were performed in accordance with all national or local guidelines and regulations. Results from experiments involving humans or tissue samples must additionally include a statement that informed consent was obtained from the subject or from the next of kin. Authors must emphasize any unexpected, new, and/or significant hazards or risks associated with the reported work. This information should be in the experimental details section of the full article or communication. The Editors prefer that the Methods section is placed after the Conclusions section, although this is not mandatory.

Acknowledgment. Include financial support, technical assistance, advice from colleagues, gifts, etc. Be precise and thorough when acknowledging funders and include grant numbers where appropriate.

References. Compile all references together in a list at the end of the manuscript text. Many references will link directly to the cited article or other Web sites. It is crucial that authors verify the accuracy of references cited. Unnecessarily long lists of references should be avoided, and excessive self-citation is not permitted. However, authors must reference all previous publications in which portions of the present work has appeared. Literature references should be numbered with Arabic numerals in the order of their first citation in the text and the corresponding superscripted numbers inserted at the appropriate locations in the text. Articles accepted for

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- Moreau, P.; Anizon, F.; Sancelme, M.; Prudhomme, M.; Bailly, C.; Severe, D.; Riou, J.-F.; Fabbro, D.; Meyer, T.; Aubertin, A.-M. Syntheses and biological activities of rebeccamycin analogues. Introduction of a halogenoacetyl substituent. *J. Med. Chem.* **1999**, *42*, 584–592.

For journal articles published online ahead of print or online only, the DOI should be used:

- Liu, C.; Yang, S. Synthesis of angstrom-scale anatase titania atomic wires. *ACS Nano* **2009**, DOI: 10.1021/nn900157r.

For books:

- Fierke, C. A.; Hammes, G. G. *Transient kinetic approaches to enzyme mechanisms. In Contemporary Enzyme Kinetics and Mechanism*, 2nd ed.; Purich, D., Ed.; Academic Press: New York, 1996; pp 1–35.

Titles of journals are abbreviated according to [Chemical Abstracts Service Source Index \(CASSI\)](#). Authors should consult [The ACS Guide to Scholarly Communication](#) for the appropriate style to use in citations of patents, conferences, and other publications. Cite papers that are in preparation or have been submitted but not yet accepted in the text as unpublished experiments or personal communications.

Nomenclature. Use abbreviations and acronyms sparingly, and all usage should be defined at the first occurrence in the text. Use systematic and standard nomenclature appropriate for your field of study.

Supporting Information

This information is provided to the reviewers during the peer-review process (for Review Only) and is available to readers of the published work (for Publication). Supporting Information must be submitted at the same time as the manuscript. See the list of [Acceptable Software by File Designation](#) and confirm that your Supporting Information is [viewable](#).

If the manuscript is accompanied by any supporting information files for publication, these files will be made available free of charge to readers. A brief, nonsentence description of the actual contents of each file is required. This description should be labeled Supporting Information and should appear before the Acknowledgement and Reference sections. Examples of sufficient and insufficient descriptions are as follows:

Examples of sufficient descriptions: “Supporting Information: ¹H NMR spectra for all compounds” or “Additional experimental details, materials, and methods, including photographs of experimental setup”.

Examples of insufficient descriptions: “Supporting Information: Figures S1-S3” or “Additional figures as mentioned in the text”.

When including supporting information for review only, include copies of references that are

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All ACS journals strongly encourage authors to make the research data underlying their articles publicly available at the time of publication.

Research data is defined as materials and information used in the experiments that enable the validation of the conclusions drawn in the article, including primary data produced by the authors for the study being reported, secondary data reused or analyzed by the authors for the study, and any other materials necessary to reproduce or replicate the results.

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The quality of illustrations in ACS journals and partner journals depends on the quality of the original files provided by the authors. Figures are not modified or enhanced by journal production staff. All graphics must be prepared and submitted in digital format.

Graphics should be inserted into the main body whenever possible. Please see Appendix 2 for additional information.

Any graphic (figure chart, scheme, or equation) that has appeared in an earlier publication should include a [credit line](#) citing the original source. Authors are responsible for [obtaining written permission](#) to re-use this material.

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The impact of your research is not limited to what you can express with words. Tables and figures such as graphs, photographs, illustrations, diagrams, and other visuals can play a significant role in effectively communicating your findings. Our [Figures service](#) generates publication-ready figures that conform to your chosen journal's specifications. This includes changes to file type, resolution, color space, font, scale, line weights, and layout (to improve readability and professional appearance).

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Manuscripts, graphics, supporting information, and required forms, as well as manuscript revisions, must all be submitted in digital format through [ACS Paragon Plus](#), which requires an ACS ID to log in. Registering for an ACS ID is fast, free, and does not require an ACS membership. Please refer to Appendix 1 for additional information on preparing your submission

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All manuscripts are subject to critical, single-anonymized peer review. It is to be understood that the final decision relating to a manuscript's suitability rests solely with the Editor. The journal disapproves of attempts by authors to determine the identity of reviewers. This journal's policy is to neither confirm nor deny speculation about the identities of reviewers.

Providing Potential Reviewer Names

Authors are requested to provide the names of four to six reviewers competent to referee their manuscripts. They may also suggest in their cover letter that certain individuals not be used as

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Manuscripts must be submitted via ACS Paragon Plus, where complete instructions and an overview of the submission process are available. The Web submission site employs state-of-the-art security mechanisms to ensure that all electronically submitted papers are secure. These same security mechanisms are also utilized throughout the peer-review process, permitting access only to Editors and reviewers who are assigned to a particular paper.

Checklist for Accepted Manuscripts.

Manuscripts accepted for publication in *ACS Omega* have to adhere to the following formatting checklist:

1. Title in PDF matches the Manuscript Details entered into ACS Paragon Plus
2. Complete author list (names must be entered into ACS Paragon Plus in the same sequence as they appear on the first page of the manuscript)
3. Complete affiliations for all authors: full mailing addresses of institutional affiliations where research for the paper was conducted (Note: current addresses that differ from the research affiliations should be included as footnotes). E-mail address are required for all authors as well
4. Abstract present and labeled
5. TOC graphic present and labeled
6. All numbered components are present in the manuscript file and labeled (no gaps in numbering)
 - Schemes
 - Tables
 - References
 - Equations
 - Figures
7. Figures are legible, and figure labels and lettering are also legible
8. References are included at the end of the manuscript text and cited by a number (not Harvard style, that is, not as "Smith and Jones, 1999")
9. Experimental Section is included in the manuscript file, preferably after the Conclusions section
10. Supporting Information is in a separate file(s) and properly tagged as being for publication or for review only. It should be publication ready, e.g., no highlights or track changes
11. All graphics are in the manuscript and/or included as a separate file
12. No parts of a manuscript that should be published as part of the main paper are in Supporting Information files
13. Any form of track changes should be accepted/removed before acceptance
14. JPA is present and properly signed
15. Funding sources are identified for the work presented in the manuscript

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Publication of manuscripts on the Web may occur weeks in advance of the cover date of the issue of publication. Authors should take this into account when planning their patent and intellectual property activities related to a document and should ensure that all patent information is available at the time of first publication, whether ASAP or issue publication.

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The American Chemical Society follows guidance from the [Committee on Publication Ethics](#) (COPE) when considering any ethical concerns regarding a published article, Retractions, and Expressions of Concern.

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Additions and Corrections must be submitted as new manuscripts via ACS Paragon Plus by the Corresponding Author for publication in the "Addition/Correction" section of the Journal. The corresponding author should obtain approval from all coauthors prior to submitting or provide evidence that such approval has been solicited. The manuscript should include the original article title and author list, citation including DOI, and details of the correction.

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Expressions of Concern may be issued at the discretion of the Editor if:

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Upon completion of any related investigation, and when a final determination is made about the outcome of the article, the Expression of Concern may be replaced with a Retraction notice or Correction.

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Appendix 1: PREPARING FOR SUBMISSION

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Ethical Guidelines

ACS editors have provided [Ethical Guidelines](#) for persons engaged in the publication of chemical research—specifically, for editors, authors, and reviewers. Each journal also has a specific [policy on prior publication](#).

Safety Considerations

Authors must emphasize any unexpected, new, and/or significant hazards or risks associated with the reported work. This information should be in the Experimental Section of a full article and included in the main text of a letter. Statement examples can be found in the [Safety Statement Style Sheet](#) and additional information on communicating safety information from the *ACS Guide to Scholarly Communication* [is freely available here](#).

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Appendix 2: Preparing Graphics

Resolution

Digital graphics pasted into manuscripts should have the following minimum resolutions:

- Black and white line art, 1200 dpi
- Grayscale art, 600 dpi
- Color art, 300 dpi

Size

Graphics must fit a one- or two-column format. Single-column graphics can be sized up to 240 points wide (3.33 in.) and double-column graphics must be sized between 300 and 504 points (4.167 in. and 7 in.). The maximum depth for all graphics is 660 points (9.167 in.) including the caption (allow 12 pts. For each line of caption text). Lettering should be no smaller than 4.5 points in the final published format. The text should be legible when the graphic is viewed full-size.

Helvetica or Arial fonts work well for lettering. Lines should be no thinner than 0.5 point.

Color

Color may be used to enhance the clarity of complex structures, figures, spectra, and schemes, etc., and color reproduction of graphics is provided at no additional cost to the author. Graphics intended to appear in black and white or grayscale should not be submitted in color.

Type of Graphics

Table of Contents (TOC)/Abstract Graphic

Consult the Guidelines for [Table of Contents/Abstract Graphics](#) for specifications.

Figures

A caption giving the figure number and a brief description must be included below each figure. The caption should be understandable without reference to the text. It is preferable to place any key to symbols used in the artwork itself, not in the caption. Ensure that any symbols and abbreviations used in the text agree with those in the artwork.

Charts

Charts (groups of structures that do not show reactions) may have a brief caption describing their contents.

Tables

Each table must have a brief (one phrase or sentence) title that describes the contents. The title should be understandable without reference to the text. Details should be put in footnotes, not in the title. Tables should be used when the data cannot be presented clearly in the narrative, when many numbers must be presented, or when more meaningful inter-relationships can be conveyed by the tabular format. Tables should supplement, not duplicate, information presented in the text and figures. Tables should be simple and concise.

Schemes

Each scheme (sequences of reactions) may have a brief caption describing its contents.

Chemical Structures

Chemical structures should be produced with the use of a drawing program such as ChemDraw.

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