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MANUSCRIPT SUBMISSION REQUIREMENTS CHECKLIST

- ☐ Cover letter
- ☐ Author list with affiliations: must match between electronic entry and manuscript file
- ☐ Abstract
- ☐ Title: Titles should be clear and concise; they must match between manuscript file and electronic submission.
- ☐ Manuscript File: Clean with no highlighting or comments and all changes accepted. Research Articles should be **no more than 40,000 total characters and ~5 figures**. Written in a style accessible to our broad audience.
- ☐ (Highly encouraged) Have a colleague in another field read as test for accessibility.
- ☐ (Optional for main text, required in the Supporting Information) an experimental section located after the results and discussion; includes safety comment.
- ☐ Tables/Schemes/Figures: Text should be clear and legible, with fonts no smaller than 8 pt.
- ☐ Figures: must be labeled sequentially and match numbered references in article (manuscript and Supporting Information). Where appropriate, label all subsections by letter.
- ☐ Supporting Information (if any) must be included in the electronic submission.
- ☐ Table of Contents Graphic
- ☐ References: no specific format required, but must be sufficient to aid referees in their reviewing duties.

SCOPE OF THE JOURNAL

[ACS Central Science](#) publishes the most compelling, important primary reports on research in chemistry and in allied fields across the sciences where chemistry plays a role. It is the first fully open access journal published by the American Chemical Society. Authors whose articles are accepted to *ACS Central Science* are provided with a complimentary [ACS AuthorChoice](#) license at no charge, making all content openly accessible immediately.

The journal seeks to address important advances in fundamental areas of chemistry, as well as applied and interdisciplinary research highlighting the seminal role of chemistry in a wide range of other scientific disciplines. The Editors place a premium on articles deemed to be of exceptional scientific quality, originality, significance, and breadth of interest to the global chemistry community.

MANUSCRIPT TYPES

ACS Central Science publishes original Research Articles and Outlooks (reviews) and commissions highlights called *First Reactions* to advance understanding of the articles published. Submissions are based on original work not previously published. The Editors welcome submissions for Research Articles and proposals for Outlooks.

Research Articles. Reports of original research focused on an individual significant finding or an advance of immediate and lasting impact that is of broad interest to the scientific community. **No minimum length requirement** is imposed for original submissions, noting that for *ACS Central Science*, content traditionally considered letters or rapid communications as well as full articles all fall into the category

Research Articles. The Editors request authors explain their findings concisely and accurately, **no more than 40,000 characters** (including spaces, graphics, tables, and equations), excluding Supporting Information (SI). Authors are encouraged to use Supporting Information as appropriate.

Outlooks (Reviews). Outlooks will be invited by the Editors. Interested authors may submit proposals for Outlooks to eic@centralscience.acs.org with the subject line, "Outlook Proposal". Outlooks are topical, typically brief reviews (~25,000 characters, including spaces, graphics, tables, and equations), that are forward-looking and of general interest to the broad readership of *ACS Central Science*.

First Reactions (Commentary). These are short, general pieces (no more than 1000 words) that help relate the research articles to the world at large. The Editors especially encourage a forward-looking view. Where could this research go? First Reactions will be invited by the Editors. Authors interested in serving as First Reactions authors should e-mail [Development/Managing Editor](#) with a brief biosketch, research interests about which they would like to write, and either a sample or a link to equivalent published work where science is explained to a broad audience.

Science/Life (Narratives) Science/Life will be invited by the Editors. Science/Life manuscripts are either autobiographical or third person accounts of stories, lives, and anecdotes of the people behind the science. While there are no strict length requirements, writing must be lively and brisk, and will be subject to both style and copy-editing. Interested authors may submit proposals for Science/Life to eic@centralscience.acs.org with the subject line, "Science/Life Proposal on <the name of the subject or story>".

ACS PUBLISHING CENTER

While this document will provide basic information on how to prepare and submit the manuscript as well as other critical information about publishing, we also encourage authors to visit the [ACS Publishing Center](#) for additional information on everything that is needed to prepare (and review) manuscripts for ACS journals, such as

- [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.
- [Sharing your research](#) with the public through ACS Publications open access program

MANUSCRIPT PREPARATION

Review Ready Submission

All ACS journals have simplified their formatting requirements in favor of a streamlined and standardized review-ready 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.
- A two-column manuscript template is available and can be used for manuscripts submitted to any ACS journal. Templates are not required but may be useful to approximate how an article

will compose. For manuscripts with word count limits, authors are not required to fit content into a page limit based on the template.

- References can be provided in any style, but they must be complete, including titles.
- Supporting Information should be submitted as a separate file(s).
- Author names and affiliations on the manuscript must match what is entered into ACS.

Document Templates and Format

The templates facilitate the peer review process by allowing authors to place artwork and tables close to the point where they are discussed within the text. Learn more about document templates [here](#).

General information on the preparation of manuscripts may also be found in [The ACS Style Guide](#).

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.

It is required that a cover letter accompany each original submission. Recommended information includes the following:

- title
- name of the corresponding author
- name(s) of any other coauthor(s)
- the type of manuscript submitted
- a paragraph explaining why the article appeals to the broad audience *ACS Central Science* serves
- a description of any Supporting Information and/or Review-Only Material
- where appropriate, a note regarding presubmission inquiries made of the journal or discussions with an *ACS Central Science* Editor or the [Development/Managing Editor](#) about this article.

Manuscript Text Components

The Editor's objective when considering your initial submission is to evaluate the science presented. As a result, some details may be handled later in the process should your Research Article be advanced; these include stylistic formatting, reference formatting, synopses, and a graphic for the journal table of contents. For the convenience of authors, the preferred options are presented below. *It is important to note that upon revision submissions, such formatting and stylistic matters must be addressed.*

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.

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.

Abstract. All Research Articles and Outlooks should contain an abstract. An abstract provides a succinct, informative summation of the most important results and conclusions.

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

Results and Discussion. Explain the motivation for the work and how it involves chemistry. Present results concisely. The discussion should interpret the results and relate them to existing knowledge in the field, and explain the significant 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).

Methods (Optional for Main Text). Provide a clear, unambiguous description of materials, methods, and equipment in sufficient detail to permit repetition of the research. Describe novel experimental procedures in detail, but published procedures may be referred to by literature citation of both the original and any published modifications. 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. For experimental papers, a statement must be included emphasizing either:

- “no unexpected or unusually high safety hazards were encountered” OR
- explaining any unexpected, new, and/or significant hazards or risks associated with the reported work and how they were mitigated.

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. 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. *ACS Central Science will use the following reference style, but authors are not required to submit in this format.* As long as all components of references are provided consistently, references will be properly formatted during the technical editing process. Articles accepted for publication should be cited as “in press”; the DOI should be given if the paper is published online only. Cite papers that are in preparation or have been submitted but not yet accepted in the text as unpublished experiments or personal communications. Titles of journals are abbreviated according to [Chemical Abstracts Service Source Index](#) (CASSI).

For journals:

1. 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:

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

For books:

3. 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.

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.

Text. Manuscripts must be prepared using accepted word-processing software as defined [here](#). LaTeX users should follow the detailed guidelines available at [this site](#).

Hero Image. Every Research Article and Outlook published is invited to be highlighted for several days on the Web page with a large focal image. These images are different than the TOC graphic, in that their aim is not necessarily to educate readers about the conclusions or experimental set-up of the paper, but rather to be incredibly visually pleasing and eye-catching to direct traffic to the story. At revision, we appreciate input about visual representation of your paper (draft image, sketch, or text description of desired image). The best results are obtained by submitting artwork that will fit into the 2.87:1 aspect ratio at 72 dpi (minimum **1034 x 360px**) and RGB color mode. Alternatively, figures may be cropped or enlarged to fit that proportion. Pixel based images may be supplied as layered Photoshop files (PSD), uncompressed JPEG, or TIF. Vector images may be submitted as Adobe Illustrator (AI), EPS or PDF.

Naming and Numbering. Name your graphics Figure 1, Figure 2, etc. (Arabic numerals), consecutively, and for figures not embedded in the text, place a call-out in the main manuscript text where the graphic should be located. Boldface Arabic numerals should be used for numbering structures.

Lettering. Lettering should be ≥6 points, and lines should have ≥0.5-point thickness at final printed size. Lettering and lines should be of uniform density.

Titles, Footnotes, Captions, Legends. Schemes may have titles and footnotes. Figures must have captions. To save space, place legends for graphs within the main body of the graphic, whenever possible.

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 description of each file is required, and the paragraph

and descriptions should be placed at the end of the manuscript before the list of references. The appropriate format is as follows:

Supporting Information. Brief descriptions in nonsentence format listing the contents of the files supplied as Supporting Information.

When including supporting information for review only, include copies of references that are unpublished or in-press. These files are available only to editors and reviewers.

Data Requirements

Advancing scientific discoveries can be enhanced when data and materials are made available and readily exchanged. *ACS Central Science* requires for all published articles that authors make materials, data, and protocols available to readers through deposition in a public database. In addition, ACS Publications' figshare houses all Supporting Information within the HTML presentation of the paper and at acs.figshare.com. Authors may want to further investigate [Dryad](https://www.dryad.org/), or institutional repositories for depositing data. Authors also agree to make available to interested academic researchers for their own use any materials reported in the manuscript that are not otherwise obtainable. Any restrictions to the availability of materials or information must be stated at the time of submission. [ACS Math Style Sheet](#) and [NMR Guidelines](#) are available on Publishing Center.

Language and Editing Services

A well-written paper helps share your results most clearly. ACS Publications' [English Editing Service](#) is designed to help scientists communicate their research effectively. Our subject-matter expert editors will edit your manuscript for grammar, spelling, and other language errors so your ideas are presented at their best.

Preparing Graphics

The quality of illustrations in ACS 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.

Figure and Illustration Services

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).

PREPARING FOR SUBMISSION

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.

Prior Publication Policy

ACS Central Science authors are allowed to deposit an initial draft of their manuscript in a preprint service such as [ChemRxiv](#), [bioRxiv](#), [arXiv](#), or the applicable repository for their discipline prior to submission. Please note any use of a preprint server in the cover letter, and as appropriate, state how the manuscript has been adjusted/updated between deposition and submission. All other prior/redundant publication is forbidden.

Editorial Policies

PRESUBMISSION INQUIRIES

Presubmission inquiries can be sent to eic@centralscience.acs.org to request feedback on the journal's level of interest in a manuscript. In the subject line, include the phrase "presubmission inquiry: <insert here general topic or manuscript title>". In the e-mail, provide the title, authors, either the abstract or general description of the key results, and a statement indicating why the manuscript is of broad interest and appropriate for *ACS Central Science*. Research Articles or Outlooks (reviews) that are encouraged will undergo the same process of rigorous review upon submission.

REVIEW PROCESS SUMMARY

Editors evaluate all submissions, and they consult with Editorial Advisory Board members in some cases. Some submissions are rejected shortly after submission, for example, those that fall outside the scope of the journal or are not deemed of sufficient interest to the broad readership. For manuscripts considered further, additional peer reviewers and the Editorial Advisory Board members are consulted to evaluate the originality, quality, clarity, and import. Editors review all feedback and make final decisions. Reviewers may be asked to consider subsequent versions of manuscripts, particularly where new data or information is included, and in those cases, blind copies of reviewers comments may be sent to all reviewers to encourage a consensus recommendation, and allow Editors to respond to authors with valuable and timely feedback.

MEDIA POLICY

ACS Central Science aims to make important discoveries broadly and openly available rapidly and with excellence of quality peer review characteristic of the American Chemical Society. The Media Policy seeks to encourage discussion of new research both prior to and following publication.

Prior to acceptance and publication, authors are encouraged to present their findings to peers, including at meetings and conferences, and through social media. Articles accepted for publication may be selected for promotion through an embargoed press release available through [EurekAlert.org](#), sent out on Fridays, and released publicly the following Wednesday.

If an author is particularly interested in a press release, please include a document with a layperson's summary of the key elements of the paper and why it will be of wide interest for consideration for a press release no later than revision. The document should be named "Newsworthy - the submitting author's last name". Inclusion of a simple graphic is highly encouraged.

Anyone interested in being included on the media list may contact newsroom@acs.org. If there is media interest in an article accepted by *ACS Central Science* but not yet published, authors should contact newsroom@acs.org so that the Office of External Affairs & Communication can make the final article proof available as well as any accompanying content.

Providing Potential Reviewer Names

Please suggest at least 6 reviewers. Authors are encouraged to avoid suggesting reviewers from the authors' institutions. Do not suggest reviewers who may have a [real or perceived conflict of interest](#). Whenever possible, suggest academic email addresses rather than personal email addresses.

Manuscript Transfer

If your submission is declined for publication by this journal, the editors might deem your work to be better suited for another ACS Publications journal and suggest that the authors consider transferring the submission. [Manuscript Transfer](#) simplifies and shortens the process of submitting to another ACS journal, as all the coauthors, suggested reviewers, manuscript files, and responses to submission questions are copied by ACS Paragon Plus to the new draft submission. Authors are free to accept or decline the transfer offer.

Note that each journal is editorially independent. Transferring a manuscript is not a guarantee that the manuscript will be accepted, as the final publication decision will belong to the editor of the next journal.

PRODUCTION AND PUBLICATION

Proofs via ACS Direct Correct

Correction of the galley proofs is the responsibility of the Corresponding Author. The Corresponding Author of an accepted manuscript will receive e-mail notification and complete instructions when page proofs are available for review via [ACS Direct Correct](#). Extensive or important changes on page proofs, including changes to the title or list of authors, are subject to review by the editor.

It is the responsibility of the Corresponding Author to ensure that all authors listed on the manuscript agree with the changes made on the proofs. Galley proofs should be returned within 48 hours in order to ensure timely publication of the manuscript.

Publication Date and Patent Dates

Accepted manuscripts will be published on the ACS Publications Web site as soon as page proofs are corrected and all author concerns are resolved. The first date on which the document is published on the Web is considered the publication date.

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 Just Accepted, ASAP, or issue publication.

All articles published ahead of print receive a unique Digital Object Identifier (DOI) number, which is used to cite the manuscript before and after the paper appears in an issue. Additionally, any

supplemental information submitted along with the manuscript will automatically be assigned a DOI and hosted on Figshare to promote open data discoverability and use of your research outputs.

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Authors should first sign the Journals Publishing Agreement prior to acceptance. After an article has been peer-reviewed and if it is accepted in *ACS Central Science*, the ACS awards the article an ACS AuthorChoice license. The corresponding author receives an e-mail from ACS with instructions and a link into the Copyright Clearance Center's RightsLink ecommerce system for use should they choose to purchase another open access license option. For some funders, special arrangements have been made, and alternate processes may be provided in the e-mail to the corresponding author (see http://pubs.acs.org/page/4authors/funder_options.html for details). Significant discounts are available for authors who are ACS members. For assistance with open access, please contact support@services.acs.org.

ASAP Publication

Manuscripts will be published on the "Articles ASAP" page on the Web as soon as page proofs are corrected and all author concerns are resolved. ASAP publication usually occurs within a few working days of receipt of page proof corrections, which can be several weeks in advance of the cover date of the issue.

Post-Publication Policies

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.

Additions and Corrections

Additions and Corrections may be requested by the author(s) or initiated by the Editor to address important issues or correct errors and omissions of consequence that arise after publication of an article. All Additions and Corrections are subject to approval by the Editor, and should bring new and directly relevant information and corrections that fix scientific facts. Minor corrections and additions will not be published. Readers who detect errors of consequence in the work of others should contact the corresponding author of that work.

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.

Retractions

Articles may be retracted for scientific or ethical reasons and may be requested by the article author(s) or by the journal Editor(s), but are ultimately published at the discretion of the Editor. Articles that contain seriously flawed or erroneous data such that their findings and conclusions cannot be relied upon may be retracted in order to correct the scientific record. When an article is retracted, a notice of Retraction will be published containing information about the reason for the Retraction. The originally published article will remain online except in extraordinary circumstances (e.g. where deemed legally necessary, or if the availability of the published content poses public health risks).

Expressions of Concern

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

- there is inconclusive evidence of research or publication misconduct by the authors;
- there is evidence that the findings are unreliable but the authors' institution will not investigate the case;
- an investigation into alleged misconduct related to the publication either has not been, or would not be, fair and impartial or conclusive;
- an investigation is underway but a judgment will not be available for a considerable time.
- 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.

Sharing Your Published Article

At ACS Publications, we know it is important for you to be able to share your peer reviewed, published work with colleagues in the global community of scientists. As sharing on sites known as scholarly collaboration networks (SCNs) is becoming increasingly prevalent in today's scholarly research ecosystem, we would like to remind you of the many ways in which you, a valued ACS author, can [share your published work](#).

Publishing open access makes it easy to share your work with friends, colleagues, and family members. In addition, ACS Publications makes it easy to share your newly published research with ACS Articles on Request (see below). Don't forget to promote your research and related data on social media, at conferences, and through scholarly communication networks. Increase the impact of your research using the following resources: [Altmetrics](#), [Figshare](#), [ACS Certified Deposit](#).

E-Prints

When your article is published in an ACS journal, corresponding authors are provided with a link that offers up to 50 free digital prints of the final published work. This link is valid for the first 12 months following online publication, and can be shared via email or an author's website. After one year, the access restrictions to your article will be lifted, and you can share the [Articles on Request](#) URL on social media and other channels. To access all your Articles on Request links, log in to your ACS Publishing Center account and visit the "My Published Manuscripts" page.

Reprints

[Article](#), [Journal](#), and [Commercial](#) reprints are available to order.

Appendix 1: PREPARING FOR SUBMISSION

We've developed ACS' publishing and editorial policies in consultation with the research communities that we serve, including authors and librarians. Browse our policies below to learn more.

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 the full article and included in the main text of a letter.

Conflict of Interest Disclosure

A statement describing any financial conflicts of interest or lack thereof is published in each ACS journal article.

During the submission process, the Corresponding Author must provide a statement on behalf of all authors of the manuscript, describing all potential sources of bias, including affiliations, funding sources, and financial or management relationships, that may constitute conflicts of interest. If the manuscript is accepted, the statement will be published in the final article.

If the manuscript is accepted and no conflict of interest has been declared, the following statement will be published in the final article: "The authors declare no competing financial interest."

Plagiarism

In publishing only original research, ACS is committed to deterring plagiarism, including self-plagiarism. ACS Publications uses CrossCheck's iThenticate software to screen submitted manuscripts for similarity to published material. Note that your manuscript may be screened during the submission process. Further information about plagiarism can be found in Part B of the [Ethical Guidelines to Publication of Chemical Research](#). See also the [Press Release](#) regarding ACS' participation in the CrossCheck initiative.

Author List and Coauthor Notification

Authors are required to obtain the consent of all their coauthors prior to submitting a manuscript. The submitting author accepts the responsibility of notifying all coauthors that the manuscript is being submitted.

If any change in authorship is necessary after a manuscript has been submitted, the Corresponding Author must e-mail a signed letter to the Editor-in-Chief confirming that all of the original coauthors have been notified and have agreed to the change. If the change involves the removal of a coauthor's name, the Corresponding Author must, in addition, arrange for the coauthor involved to e-mail a separate signed letter to the Editor-in-Chief consenting to the change. No changes in the author list will be permitted after a manuscript has been accepted.

During manuscript submission, the submitting author must provide contact information (full name, email address, institutional affiliation, and mailing address) for all of the coauthors. Because all of the

author names are automatically imported into the electronic Journal Publishing Agreement, the names must be entered into ACS Paragon Plus in the same sequence as they appear on the first page of the manuscript. (Note that coauthors are not required to register in ACS Paragon Plus.)

Patent Activities and Intellectual Property

Authors are responsible for ensuring that all patent activities and intellectual property issues are satisfactorily resolved prior to first publication (Just Accepted, ASAP, or in issue). Acceptance and publication will not be delayed for pending or unresolved issues of this nature.

Open Researcher and Contributor ID (ORCID)

Authors submitting manuscript revisions are required to provide their own personal, validated ORCID iD before completing the submission, if an ORCID iD is not already associated with their ACS Paragon Plus user profiles. This ID may be provided during original manuscript submission or when submitting the manuscript revision. All authors are strongly encouraged to register for an ORCID iD, a unique researcher identifier. The ORCID iD will be displayed in the published article for any author on a manuscript who has a validated ORCID iD associated with ACS when the manuscript is accepted.

ORCID iDs should not be typed into the manuscript. ACS publishes only those ORCID iDs that have been properly verified and linked **before the manuscript is accepted**. After your ORCID iD is linked, it will be displayed automatically in all subsequently accepted manuscripts for any/all ACS journals. We do not publish ORCID iDs provided during proof review or via other communications after a manuscript is accepted for publication.

With an ORCID iD, you can create a profile of your research activities to distinguish yourself from other researchers with similar names, and make it easier for your colleagues to find your publications. If you do not yet have an ORCID iD, or you wish to associate your existing ORCID iD with your ACS Paragon Plus account, you may do so by clicking on “Edit Your Profile” from your ACS Paragon Plus account homepage and following the ORCID-related links. Learn more at <http://www.orcid.org>.

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Funder Reporting Requirement

Authors are [required to report funding sources](#) and grant/award numbers. Enter **ALL** sources of funding for ALL authors in **BOTH** the Funder Registry Tool in ACS Paragon Plus and in your manuscript to meet this requirement.

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 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 its 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.

Cover Art

Authors are encouraged to submit images suitable for publication on the journal cover. Cover art should be colorful and eye-catching, imaginative and creative, and must convey the essence and chemistry of the research.

Graphics in tif, or png format (not pdf or ppt) should be approximately 8.44 inches wide x 10.125 inches high, with a minimum resolution of 300 dpi (2532 x 3038 pixels). Please include a "layered" version of the file in case art enhancement is needed.

Please also submit a very short (<50 words) explanation of the cover graphic; this description will appear on the Web alongside the cover image, including image credits, if applicable.

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