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Scope of the Journal

[ACS Applied Materials & Interfaces](#) is an interdisciplinary journal publishing original research at the interface of materials science, engineering, bio-related sciences, and chemistry. The journal is devoted to reports of new and original experimental and theoretical research of an applied nature. The emphasis is on papers that integrate knowledge in the areas of materials science, engineering, bio-related sciences, and chemistry into important applications. Among the basic areas the journal covers are advanced active and passive electronic, optical (including photonic), and magnetic materials, films, coatings, colloids, biomaterials and biointerfaces, polymer materials, hybrid and composite materials, nanomaterials, material stability, degradation and wear, and green/sustainable materials. Example applications include (but are not limited to) electronic, optical and electro-optical devices, sensors, biosensors, biocides, cell growth, diagnostics, theranostics, coatings and adhesives, separation, catalysis, functional and active surfaces, patterning, membranes, energy conversion and storage, imaging (including bioimaging), and information processing and storage.

Manuscripts that are essentially reporting data or applications of data are, in general, not suitable for publication in *ACS Applied Materials & Interfaces*. All manuscripts are subject to critical, anonymous peer review. It is to be understood that the final decision relating to a manuscript's suitability rests solely with the Editor.

Manuscript Types

ACS Applied Materials & Interfaces publishes 6 types of papers: Articles, invited Reviews, invited Spotlights on Applications, invited Forum Articles, Proposals, and Comments.

A. Articles should cover their subjects with thoroughness, clarity, and completeness but should be as concise as possible.

Abstracts to Articles are limited to 300 words and should summarize the significant results and conclusions. Articles are scheduled for publication in the order of acceptance within limitations of available space.

Articles are allocated to sections in the journal table of contents. Authors are asked to choose the appropriate section from a menu during the submission process. An editor checks this selection and may change it, if another section seems more appropriate. (In some cases an article could fit into more than one section, in which case the choice should be determined by which seems most suitable.) Refer to the Table of Contents of a recent issue of the journal for a listing of the subject sections.

Articles describing related work divided into two or more manuscripts (e.g., part 1, part 2...) submitted concurrently are strongly discouraged.

B. Reviews are usually invited by the Editor and are limited to a maximum of 10 journal pages (approximately 50 pages of double-spaced manuscript), including tables, figures, and references. Reviews should constitute concise, yet complete, surveys of the literature written by experts for

non-experts. Their purpose is to acquaint the readers of the journal with recent progress in key materials or interfaces research areas, with a focus on application. Reviews should be written for a more general audience of “materials scientists and engineers” and provide a balanced view of the topic in question. Exclusive (or near exclusive) focus on the author’s research is discouraged in Reviews. Reviews will be peer-reviewed in the same manner as research Articles.

Reviews will be considered only if they are invited for submission by the Editor or after the review proposal is accepted by the Editor. A review invitation does not guarantee that a review will be peer-reviewed or published. It is incumbent on authors to submit copyright permissions for material that is being reproduced from other sources.

C. Spotlights on Applications are usually invited by the Editor and will be so designated. By focusing on active research areas, these articles are not intended to be standard reviews of the literature. The author will be asked to provide a clear, concise, and critical status report of the field as an introduction, and the author’s own contribution to the field should constitute the main body of the article. An emphasis should be placed on drawing a clear relationship between materials or interface synthesis, structure, and/or properties and the application that is the focus of the Spotlight. Authors in important active research fields in the area of applied materials and interfaces are encouraged to propose Spotlights by submitting a proposal.

D. Perspectives are brief reports (3–5 journal pages) summarizing an emerging research area or finding of particular interest to applied materials and/or interfaces. Perspectives can also elaborate on important unanswered questions and approaches being taken to address them. These reports are not intended to be comprehensive looks at the field, but rather to place a particular research finding or emerging area into broader context. Perspectives must contain a brief abstract of ~120 words and ~20 references. Perspectives include a graphical Table of Contents entry. These papers are written exclusively at the invitation of the Editor and they will be reviewed.

E. Forum Articles. Occasionally a group of manuscripts that are focused in a particular topical area will be published as a special issue (formerly called "Forums"), which is essentially a “virtual symposium.” Scientists and engineers in important active research fields in the area of applied materials and interfaces are encouraged to propose special issue topics. One-page special issue proposals should be sent to the Editor-in-Chief (eic@ami.acs.org) for consideration.

F. Proposals. Authors interested in contributing a review, spotlight or perspective, if not invited by the journal, must submit a proposal for our editors to evaluate. The manuscript can only be submitted after the proposal is accepted.

The proposal should be a 1-2 page document that has the following elements:

- Proposed title
- Corresponding author names, affiliations, and websites
- Type of Review: Review/Spotlight/Perspective
- A short (~400-word) description of the focused topic
- A list of 5–10 lead references that might form the foundation of the final manuscript (Not needed for perspectives)
- A list of recent review articles published on this topic written by the submitting authors or others, and how the proposed review will differ in focus and advance the literature on the subject (Not needed for perspectives).

Once the proposal is accepted, the authors will be invited to submit the actual review, spotlight or perspective manuscript to our journal.

G. Comments are technical contributions providing, with supporting material, a respectful but alternative point of view to one that has appeared in *ACS Applied Materials & Interfaces*.

ACS Researcher Resources

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 [ACS Researcher Resources](#) for additional information on everything that is needed to prepare (and review) manuscripts for ACS journals and partner 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 the ACS Publications manuscript submission and peer review system, including details on selecting the applicable [Journal Publishing Agreement](#).
- [Sharing your research](#) with the public through the ACS Publications open access program.
- [ACS Reviewer Lab](#), a free online course covering best practices for peer review and related ethical considerations.
- [ACS Author Lab](#), a free online course that empowers authors to prepare and submit strong manuscripts, avoiding errors that could lead to delays in the publication process.
- [ACS Inclusivity Style Guide](#), a guide that helps researchers communicate in ways that recognize and respect diversity in all its forms.

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).

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.

- [Microsoft Word 2011 Template for Macintosh](#)
- [Microsoft Word 2010 Template for Windows](#) | [README file](#) [PDF]

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

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 the submission system. 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 paragraph explaining why your manuscript is appropriate for *ACS Applied Materials & Interfaces*. This paragraph must indicate what application is described in the work.
- If the manuscript was previously rejected by *ACS Applied Materials & Interfaces*, provide the manuscript number of the rejected manuscript and a detailed response to each reviewer's comments. A consent to re-submit must be obtained from the editor who handled the previous version must be obtained. For more information, see section on Editorial Policies.
- If the manuscript was previously rejected by any other ACS journal, provide the name of the journal, the manuscript number, an explanation of the basis for the rejection, and a statement granting *ACS Applied Materials & Interfaces* permission to obtain the Editor's decision letter and review for the rejected manuscript. Also indicate if the newly submitted manuscript has been revised based on the previous reviews. If so, provide a detailed response to each reviewer's comments.
- A statement confirming the manuscript, or its contents in some other form, has not been published previously by any of the authors and/or is not under consideration for publication in another journal at the time of submission.
- If the manuscript was invited whether as part of a Forum, special issue, or as an individual contribution, this should be noted in the cover letter.

Manuscript Text Components

All sections of the paper must be presented in a clear and concise manner. Authors should include an introductory statement outlining the scientific motivation for the research. The statement should clearly specify the relevance of the present work to applications, the problems it has solved or the practical advances it will enable. In Articles, the Introduction should be a separate section of the paper. In the Results and Discussion section, the author should discuss the significance of his/her observations, measurements, or computations and their implications for the applications outlined in the Introduction. An extensive review of prior work is not appropriate in Articles, and documentation of the literature should be selective rather than exhaustive, particularly if reviews can be cited. Tabulation of experimental results is encouraged whenever it leads to a more effective presentation or economical use of space. Authors are encouraged to make extensive use of the Supporting Information format, because this material is now widely available on the Web at <http://pubs.acs.org>. Figure captions should be concise and easy to read but should be sufficiently

detailed to provide a reasonable understanding of the figures without reference to the main text. For example, in a graph the caption should include enough information to readily distinguish between different datasets, provide an indication of the statistics used to derive error bars, and indicate briefly any trend that is shown. In the case of an image, the sample, imaging technique, and scale should be clearly provided.

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, including the file type extension, 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 (PDF)” or “Additional experimental details, materials, and methods, including photographs of experimental setup (DOC)”.

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 unpublished or in-press. These files are available only to editors and reviewers.

Research Data Policy

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.

The [ACS Research Data Policy](#) provides additional information on Data Availability Statements, Data Citation, and Data Repositories.

Data Requirements

Particular attention should be given to ensuring that experimental procedures are reported in sufficient detail to allow full understanding by the expert reader to the extent that would allow ready reproduction of the experiments. (References to methods used in previous publications may be used, provided the details are very similar.) Technical details that are not essential, but would nevertheless be useful to anyone wanting to fully understand the experiments, may be included as Supporting Information. Rigorous attention to the control and measurement of experimental parameters should be described, including considerations of possible sources of systematic and statistical errors, such that the conclusions of the article may be fully justified. Careful

consideration of significant figures (the number of [digits](#) that carry meaning relevant to the resolution of the measurement) should be given when reporting data in the abstract, text, and tables. It is especially important when describing device characterization to indicate how many devices were characterized and to differentiate between average, typical, and best-case results. The Virtual Issue on best practices for reporting the properties of materials and devices (<http://pubs.acs.org/page/vi/best-practices.html>) provides useful guidance.

As part of the Supporting Information, authors must provide an electronic copy of the structural data as a Crystallographic Information File (CIF) and must clearly notify the Editor in the cover letter that the manuscript contains structural data. (See the journal homepage for further instructions.) A checkcif file for each structure should also be uploaded as supporting information for review (<https://checkcif.iucr.org>). Authors must confirm that the data in the CIF file correspond to the structures reported in the manuscript. During the review process, the CIFs will be available only to the reviewers of the manuscript and will remain confidential. Authors should note that the ACS does not forward coordinates to crystallographic databases such as the Fachinformationszentrum Karlsruhe (FIZ) or the Cambridge Structural Database (CSD). This is the responsibility of the author.

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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 [Artwork Editing](#) and [Graphical Abstract](#) services generate publication-ready figures and Table of Contents (TOC) graphics that conform to your chosen journal's specifications. For figures, this includes changes to file type, resolution, color space, font, scale, line weights, and layout (to improve readability and professional appearance). For TOC graphics, our illustrators can work with a rough sketch or concept or help extract the key findings of your manuscript directly for use as a visual summary of your paper.

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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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ACS Applied Materials & Interfaces allows authors to deposit an initial draft of their manuscript in a preprint service such as [ChemRxiv](#), arXiv, bioRxiv, 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. Authors should exercise caution in providing copyright transfer when posting a manuscript to a preprint server. Release of copyright may preclude publication in *ACS Applied Materials & Interfaces*.

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Revised Manuscripts

A manuscript sent back to an author for revision should be returned to the Editor as soon as possible. If a revision is not received within **21 days**, it will be considered withdrawn. Revised manuscripts are sometimes sent back to the original reviewers, who are asked to comment on the revisions. If only minor revisions are involved, the Editor will examine the revised manuscript in light of the recommendations of the reviewers without seeking further opinions.

On resubmission, two copies of the final manuscript file will be required: (a) The final revised manuscript file that does not contain any highlighting or editing marks. This file should be uploaded as the primary manuscript document file; (b) A marked copy of the revised manuscript that shows changes made on revision clearly highlighted. This file should be uploaded separately from the manuscript file as Supporting Information for Review.

A letter from the author must also accompany the revised manuscript and provide a detailed account of how the author has responded to the reviewer's and Editor's comments, addressing each comment point-by-point. The dates of receipt of the original and revised manuscripts will both appear in the publication.

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Please suggest 5 reviewers, including their current affiliation, email and justification for being suggested as a reviewer. 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.

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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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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).

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- 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;
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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](#).

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During manuscript submission, ACS journal authors have the option to submit a statement sharing information related to diversity and inclusion that is relevant for their paper. If supplying a diversity and inclusion statement, the corresponding author must provide this on behalf of all authors of the manuscript during the submission process. These statements include but are not limited to analysis of citation diversity and acknowledgment of indigenous land on which research was conducted. Statements expressing political beliefs are not permitted and may be removed by the journal office. All statements are subject to final review by the Editor.

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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.

Our team of subject-matter experts and graphical designers can also help generate a compelling TOC graphic to convey your key findings. Learn more about our [Graphical Abstract service](#).

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.

Cover Art

ACS Applied Materials & Interfaces authors are encouraged to submit images to be considered for use on the journal's front cover or [Supplementary Covers](#) at the time of the submission of their revised manuscript. If your article is accepted for publication, your suggestion may also be selected for use on one of the journal's covers. Images chosen for the front cover will be published at no cost to the author. If your art is selected for front cover, ACS will send you information about how to request one complimentary 18" by 24" printed poster featuring your work.

Cover image submissions should be colorful and visually engaging, with minimal text. The cover image should not resemble a graphical abstract or data figure, but rather should be an artistic and scientifically accurate representation of the manuscript.

Image files should be submitted as TIF, JPG, PNG or EPS files with a resolution of at least 300 dpi for pixel-based images. Images should be 8.19 in. x 8.47 in. (or 20.80 cm x 21.51 cm). Authors should submit the cover image, along with a short, clear legend explaining the image, as supplementary files to ACS Paragon Plus with their revised manuscript.

If you wish to be considered only for the front cover, and not a paid supplementary cover, please respond NO accordingly to the Journal Covers question in ACS Paragon Plus. For more information on the Supplementary Covers program, please see [this webpage](#). All art submitted for consideration for a supplementary cover will also be considered for a front cover.

Web Enhanced Objects (WEO)

The Web editions of ACS journals allow readers to view multimedia attachments such as animations and movies that complement understanding of the research being reported.

WEOs should be uploaded in the submission system with 'Web Enhanced Object' selected as the file designation. Consult the list of [compatible WEO formats](#).