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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 5 types of papers: Articles, invited Reviews, invited Spotlights on Applications, invited Forum Articles, 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.

Authors interested in contributing a Review must submit a single document that includes the following for consideration ([eic@ami.acs.org](mailto:eic@ami.acs.org)):

- Proposed title
- Corresponding author names, affiliations, and websites
- 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
- 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.

Reviews will be considered only if they are approved and invited for submission 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. One-page proposals should be sent to the Editor-in-Chief K. S. Schanze ([eic@ami.acs.org](mailto:eic@ami.acs.org)) for consideration.

**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. Authors can submit a proposal for a perspective to [eic@ami.acs.org](mailto:eic@ami.acs.org). The proposal should provide a title, abstract and a list of five relevant references. Perspectives should not contain claims of novelty, as all manuscripts submitted to ACS Applied Materials & Interfaces are expected to contain novel components.

**E. Forum Articles.** Occasionally a group of manuscripts that are focused in a particular topical area will be published as a Forum, 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 Forum topics. One-page proposals should be sent to the Editor-in-Chief K. S. Schanze ([eic@ami.acs.org](mailto:eic@ami.acs.org)) for consideration.

**F. 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 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 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 ACS Paragon Plus, ACS Publications' manuscript submission and peer review environment, including details on selecting the applicable [Journal Publishing Agreement](#).
- [Sharing your research](#) with the public through the ACS Publications open access program.
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- [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.

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### 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:

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

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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.

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- 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:  $^1\text{H}$  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.

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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.

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

## Data Requirements

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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.

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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.

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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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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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## 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

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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.

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