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ACS APPLIED ENERGY MATERIALS

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Scope of the Journal

ACS Applied Energy Materials is an interdisciplinary journal publishing original research covering all aspects of materials, engineering, chemistry, physics, and biology relevant to energy conversion and storage. The journal is devoted to reports of new and original experimental and theoretical research of an applied nature that integrate knowledge in the areas of materials, engineering, physics, bioscience, and chemistry into important energy applications. Sample research topics that span the journal's scope are materials for energy storage including battery, supercapacitor, and redox flow batteries, fuel cell electrodes, catalysts, membranes and biofuel cells, solar cell materials including inorganic, hybrid, and organics, thermoelectric materials, solar fuel materials and processes, novel approaches to the synthesis of new and existing materials for energy storage and conversion, energy conversion materials, and electrochromic and thermochromic materials.

Manuscripts that are essentially reporting data or applications of data are, in general, not suitable for publication in *ACS Applied Energy Materials*. 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 Energy Materials publishes 6 types of papers: Letters, Articles, Reviews, invited Spotlights on Applications, invited Forum Articles, and Comments.

A. Letters are short articles that report results whose immediate availability to the applied electronic science and engineering community is deemed important. Letters are restricted to 2500 words or the equivalent (8 double-spaced word-processed pages of text and 3-4 figures), and no more than 30 references. A brief abstract of less than 100 words should be included along with 5-8 keywords. Letters are intended to provide rapid communication of important results and should be written in a form that is engaging and easy to follow. The narrative should flow continuously, without separate subsections, through introductory material, followed by a sufficient outline of the research performed to allow the reader to follow what was done, results presented and described in a way that captures their essential details, and concluding remarks. Experimental details that are not essential to the understanding of the Letter but that would be useful for those trying to reproduce the results or in providing helpful additional information for experts should be included as supporting information. Letters often will be complete publications, but follow-up publications might occasionally be justified when the research is continued and a more complete account of the work is deemed necessary. Special efforts will be made to expedite the reviewing and publication of Letters. The time for proof reading the galley proofs is relatively short. For this reason, authors of Letters should ensure that manuscripts are in final, error-free form when submitted.

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

The narrative should be divided into the following six subsections: (1) Abstract followed by 5-8 keywords, (2) Introduction, (3) Experimental Section, (4) Results and Discussion, (5) Conclusions,

and (6) References. Abstracts to Articles are limited to 300 words and should summarize the significant results and conclusions. The total number of references for Articles is typically limited to 70.

Articles are scheduled for publication in the order of acceptance within limitations of available space. Articles describing related work divided into two or more manuscripts (e.g, part 1, part 2…) submitted concurrently are strongly discouraged.

C. 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 nonexperts. 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.

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- 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.

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D. 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 electronic materials 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 electronic materials are encouraged to propose Spotlights. One-page proposals should be sent to the Deputy Editor’s office (eic@aem.acs.org) for consideration.

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 electronic materials are encouraged to propose Forum topics. One-page proposals should be sent to the Deputy Editor’s office (eic@aem.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 Energy Materials*.

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- **Citation Diversity Statement:**The citation diversity statement should appear in the Acknowledgements section of the manuscript. ACS recommends including the following: (1) the importance of citation diversity, (2) the proportion of citations by gender and race/ethnicity for the first and last authors, (3) the method used to determine those proportions and its limitations, and (4) steps taken to by the authors to improve citation diversity in the article. We recognize that one limitation of the current methods is that it cannot account for intersex, non-binary, and transgender people, or Indigenous and mixed-race authors. (Adapted from BMES/Springer Guidelines)
- **Land acknowledgment:**The land acknowledgment statement should appear in the Acknowledgements section of the manuscript. The statement should link to the institutions' formal land acknowledgments on which the research took place, if possible. Further guidance for creating these statements can be found here: https://nativegov.org/news/a-guide-to-indigenous-land-acknowledgment/.

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 Energy Materials authors are encouraged to submit an image to be considered for use on the journal's front cover or Supplementary Covers at the time the revised manuscript is submitted. If your article is accepted for publication, your submitted image may 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 and the ACS will send you information about how to request one complimentary 18" by 24" poster featuring your images.

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 × 8.47 in. (or 20.80 cm × 21.51 cm). Authors should submit the cover image, along with a short, clear legend (less than 50 words) 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.

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 ACS Paragon Plus with 'Web Enhanced Object' selected as the file designation. Consult the list of compatible WEO formats.