

Journal of Chemical & Engineering Data: Why Change the Cover Page?

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Accurate, precise, and reproducible thermophysical data have been and will continue to be pivotal for advancing the chemical sciences and addressing research needs with broad societal impact. Since its inception, the *Journal of Chemical & Engineering Data* (*JCED*) has played a prominent role in the curation and dissemination of accurate, precise, and reproducible thermophysical data. High-quality thermophysical data have always been and continue to be important for addressing research needs with broad societal impact (e.g., carbon dioxide capture, benign refrigerants, energy-efficient chemical separation). However, *JCED* as a journal and thermophysical data as a field suffer from the perception of being “old fashioned” in the eyes of many researchers and those reporting on chemistry (despite that reference data have always been highly sought-after by industrial readers). The time may be opportune to reverse this perception because of the awareness that reliable (accurate, precise, and reproducible) data are essential for decision making and because of the rise of (big) data science that is favorably viewed by the younger generation.

Thermophysical data is exciting! The cover page of *JCED* has been redesigned to broadcast this excitement through eye-catching and informative cover art and through re-emphasizing “Data” in the journal’s logo. We are optimistic that, when asked to rise to the occasion, our authors will be exceptionally creative in designing cover art that amplifies the exciting research reported in *JCED* and advertises the thermophysical data field to the next generation of chemical researchers. The purpose of cover art is to draw readers’ attention to a specific research article or review. In that respect, it is distinct but complementary to the graphical table of content image that attempts to summarize scientific aspects of the publication.

To spearhead this effort, the authors featured in the Emerging Investigators Special Issue (July 2018) and authors of highly cited *JCED* papers published between January 2019 and September 2020 were invited to submit suggestions for cover art. From the submissions received, the ACS Publications division selected two images. One of them is shown on the cover of this February 2021 issue, and the other will appear on the cover of a forthcoming issue soon. In addition, the ACS Publications division in consultation with the Managing Editor and the Editor-in-Chief selected a few stock images to be used in other issues (Figure 1); one of them was featured on the cover of the January 2021 issue of *JCED*.

GUIDELINES FOR COVER ART

We strongly encourage our authors to consider designing and submitting cover art. The cover art guidelines (https://publish.acs.org/publish/author_guidelines?coden=jceaax#cover_art) are as follows:



Figure 1. *JCED* stock images may appear as cover art in the journal as needed.

[acs.org/publish/author_guidelines?coden=jceaax#cover_art](https://publish.acs.org/publish/author_guidelines?coden=jceaax#cover_art)) are as follows:

- The image should relate to work that is published in that issue of the journal. Authors are encouraged to submit images to be considered for use on future covers at the time of the submission of their revised manuscript.
- Images to be considered for the cover should be submitted as TIF, PNG, or EPS files with a resolution of at least 300 dpi for pixel based images. The image size is 8.19 in. × 10 in., 20.80 cm × 25.4 cm. For *JCED*, authors should reserve 2.25 in., 5.72 cm, at the top of the image for the journal logo and volume/issue number.

More information may be found in the Digital Image Guidelines for Journal Cover Graphics in the ACS Paragon Plus Environment. Please include a separate Journal Publishing Agreement (for unpublished images) or written permission to reproduce in all media (for previously published images) for each image submitted, the name of the person who created the image, and a brief description of the image. Copyright and Permission Request forms are available on the ACS Publications division [website here](https://publish.acs.org/publish/author_guidelines?coden=jceaax#cover_art). If your art is selected for

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the front cover, ACS will send you information about how to request one complementary 18 in. by 24 in. printed poster featuring your work.

JCED also offers authors a great way to promote their work through [Supplementary Covers](#). Submit your cover idea, artwork, and caption when submitting your manuscript revision in ACS Paragon Plus. If your article is accepted for publication, your suggestion may be selected for use on one of the journal's supplementary covers.

The *JCED* editorial team will review cover art for scientific appropriateness, and the ACS Publications division will make the selection of the cover art.

We look forward to submissions of cover art designs that elevate the thermophysical properties field.

J. Ilja Siepmann, Editor-in-Chief orcid.org/0000-0003-2534-4507

Ramesh L. Gardas, Associate Editor orcid.org/0000-0002-6185-5825

David A. Kofke, Associate Editor orcid.org/0000-0002-2530-8816

Ronny Pini, Associate Editor orcid.org/0000-0002-9443-3573

Gabriele Sadowski, Associate Editor orcid.org/0000-0002-5038-9152

Cara E. Schwarz, Associate Editor orcid.org/0000-0001-5513-2105

Jiangtao Wu, Associate Editor orcid.org/0000-0003-1123-4307

■ AUTHOR INFORMATION

Complete contact information is available at:
<https://pubs.acs.org/10.1021/acs.jced.1c00048>

Notes

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