

The Journal of Chemical & Engineering Data: Introduction of Topical Sections and Updates from the Editorial Team

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Happy New Year! And All the Best Wishes for a Healthy and Productive Year 2022!

We would like to take this opportunity to warmly thank all authors and peer reviewers who have contributed to the more than 500 papers that have been published in the *Journal of Chemical & Engineering Data* (JCED) during 2021. Their efforts during a challenging period are greatly appreciated!

As you read this first JCED issue published in 2022, you will notice that research articles and reviews are beginning to be distributed over five thematic sections:

- Thermophysical and Thermochemical Properties
- Vapor–Liquid Equilibria and Supercritical Fluid Equilibria
- Liquid–Liquid Equilibria and Vapor–Liquid–Liquid Equilibria
- Solid–Solid Equilibria and Solid–Fluid Equilibria
- Adsorption and Diffusion in Porous Materials

We hope that these thematic sections will enhance the ease of browsing each issue's content. During the submission process, authors are now asked to select the appropriate section for their manuscript. More importantly, to provide additional guidance to potential authors beyond JCED's Author Guidelines, specific Section Guidelines pertaining to each thematic section of the journal will be available. Adhering to the Section Guidelines will not only expedite the review process for your manuscript and increase the likelihood of acceptance for publication in JCED, but will ultimately lead to your research publications providing *accurate, precise, reproducible, and consequential* data that will have a greater impact. Find the Section Guidelines on our homepage as part of the Submission Checklist (<https://pubs.acs.org/jced>) or in the JCED Author Guidelines (https://publish.acs.org/publish/author_guidelines?coden=jceaax).

The beginning of 2022 comes with two changes for JCED's Editorial Team (see Figure 1). We would like to express our sincere appreciation to outgoing Associate Editor Jiangtao Wu (Xi'an Jiaotong University) who, for many years, has shepherded innumerable manuscripts through the peer review process and provided valuable guidance to authors and reviewers. Carlos Nieto de Castro (University of Lisbon) is welcomed to JCED's Editorial Team; his research expertise and commitment to serving the thermophysical properties community will further advance JCED's mission. We also would like to thank the outgoing members of the Editorial Advisory Board (Ana Rita Duarte, Ioannis Economou, Peter Englezos, Amparo Galindo, Maaik Kroon, Kamil Paduszyński,



Figure 1. Outgoing JCED Associate Editor Jiangtao Wu (left) and incoming JCED Associate Editor Carlos Nieto de Castro (right).

and Jim Pfaendtner) for guidance during their term of service to the journal.

As some of you are aware, JCED's cover saw a transformation to a new design in 2021. The new cover design features eye-catching and informative artwork supplied by our authors that not only allows these authors to draw attention to their research work, but may help to change perceptions and contribute to the growth of the thermophysical data community. Please note that cover image submissions should be colorful and visually engaging, with minimal text. The JCED cover image should not resemble a graphical abstract or data figure, but rather should be an artistic and scientifically accurate representation of the research related to your manuscript. The dimensions for the cover image are 20.8 cm (width) by 25.5 cm (height) with the top 5.0 cm providing the background for the journal title. The outstanding, author-provided artwork featured on front and supplementary covers during 2021 is shown in Figure 2.

We would also like take this opportunity to highlight the three most cited manuscripts (as retrieved from Clarivate Web of Science, December 8, 2021) from both 2018 and 2019. These papers illustrate the diverse range of thermophysical, thermochemical, and phase equilibrium data that is important to JCED's readers.

L.F. Zubeir, D.J.G.P. van Osch, M.A.A. Rocha, F. Banat, and M.C. Kroon. Carbon Dioxide Solubilities in Decanoic Acid—

Published: January 13, 2022





Figure 2. JCEd front and supplementary covers with author-provided artwork from Volume 66's February, March, April, May, July, August, and November issues in 2021 (from left to right).

Based Hydrophobic Deep Eutectic Solvents. *J. Chem. Eng. Data* 2018, 63, 913–919. DOI: [10.1021/acs.jced.7b00534](https://doi.org/10.1021/acs.jced.7b00534) [61 citations].

A.I. Akhmetshina, A.N. Petukhov, A. Mechergui, A.V. Vorotyntsev, A.V. Nyuchev, A.A. Moskvichev, and I.V. Vorotyntsev. Evaluation of Methanesulfonate-Based Deep Eutectic Solvent for Ammonia Sorption. *J. Chem. Eng. Data* 2018, 63, 1896–1904. DOI: [10.1021/acs.jced.7b01004](https://doi.org/10.1021/acs.jced.7b01004) [51 citations].

M.B. Haider, D. Jha, B.M. Sivagnanam, and R. Kumar. Thermodynamic and Kinetic Studies of CO₂ Capture by Glycol and Amine-Based Deep Eutectic Solvents. *J. Chem. Eng. Data* 2018, 63, 2671–2680. DOI: [10.1021/acs.jced.8b00015](https://doi.org/10.1021/acs.jced.8b00015) [48 citations].

Y.G. Chung, E. Haldoupis, B.J. Bucior, M. Haranczyk, S. Lee, H. Zhang, K.D. Vogiatzis, M. Milisavljevic, S. Ling, J.S. Camp, B. Slater, J.I. Siepmann, D.S. Sholl, and R.Q. Snurr. Advances, Updates, and Analytics for the Computation-Ready, Experimental Metal–Organic Framework Database: CoRE MOF 2019. *J. Chem. Eng. Data* 2019, 64, 5985–5998. DOI: [10.1021/acs.jced.9b00835](https://doi.org/10.1021/acs.jced.9b00835) [115 citations].

K. Thakur and B. Kandasubramanian. Graphene and Graphene Oxide-Based Composites for Removal of Organic Pollutants: A Review. *J. Chem. Eng. Data* 2019, 64, 833–867. DOI: [10.1021/acs.jced.8b01057](https://doi.org/10.1021/acs.jced.8b01057) [98 citations].

G.Q. Chen, J.H. Liang, J.C. Han, and H.K. Zhao. Solubility Modeling, Solute–Solvent Interactions, and Thermodynamic Dissolution Properties of p-Nitrophenylacetonitrile in Sixteen Monosolvents at Temperatures Ranging from 278.15 to 333.15 K. *J. Chem. Eng. Data* 2019, 64, 315–323. DOI: [10.1021/acs.jced.8b00811](https://doi.org/10.1021/acs.jced.8b00811) [89 citations].

In closing, we look forward to serving our authors, readers, and the entire thermophysical properties community with great enthusiasm.

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<https://pubs.acs.org/10.1021/acs.jced.1c00969>

Notes

Views expressed in this editorial are those of the authors and not necessarily the views of the ACS.