

## Special Issue

# Imaging Chemical Dynamics by Liquid Cell (Scanning) Transmission Electron Microscopy

### Message from the Guest Editors

Advances in both experimental hardware and imaging methodologies have led to a rapid expansion of the use of in situ liquid stages for high-resolution (scanning) transmission electron microscopy observations of dynamic processes that are fundamentally important to chemistry, structural biology and materials science. New advances in dose control and the use of artificial intelligence to analyse the large and complex datasets generated by liquid cell experiments are promising to expand the frontiers of our understanding of liquid systems/interfaces in wide-ranging applied technologies in the medical sciences, the environment and clean renewable energy. The purpose of this Special Issue is to provide a forum for scientists to share the current state of the art in liquid cell microscopy and to define a pathway for future developments. Articles dealing with all aspects of the theory, practice and applications of liquid cell microscopy are welcome.

### Guest Editors

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### Deadline for manuscript submissions

closed (15 January 2022)



## Molecules

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## About the Journal

### Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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