

## Special Issue

# Machine Learning in Chemistry

### Message from the Guest Editors

In recent years, machine learning has started to revolutionize how chemistry is done, including accelerating the exploration of the chemical compound space, proposing new reaction mechanisms or synthetic pathways, exploring the potential-energy surfaces, and understanding the fundamental quantum mechanical principles of theoretically challenging systems. An enormous amount of machine learning techniques have been developed by computer scientists, data scientists, physicists, and chemists, and they have been widely applied in physical sciences. This dynamic research field has attracted researchers from different disciplines to work together to propose new methods, design new architectures, and unlock creative ways for applications. This Special Issue is devoted to "Machine Learning in Chemistry". It will cover all aspects of using machine learning to investigate reaction mechanisms, molecular structures, catalysts design, material properties, organic synthesis, molecular generation and optimizations, and fundamental electronic-structure calculations.

### Guest Editors

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### Deadline for manuscript submissions

closed (30 June 2023)



## 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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