

Special Issue

The Chemistry of Sustainable Energy Conversion and Storage

Message from the Guest Editor

The long-term environmental side-effects and finite supply of fossil fuels, which dominate the energy resources in our daily lives, requires a transition to renewable and clean energy resources. Renewable energy sources, such as solar, wind, and hydro, hold great promise to meet the huge energy demands of the 21st century at no environmental cost. Utilizing these energies, however, requires efficient and low-cost energy conversion and storage techniques, whose performance directly relies on the related chemistry during the conversion and storage process. Excitingly, owing to the advancement of materials synthesis, chemical modifications, and characterization techniques, the chemistry behind sustainable energy conversion and storage has been greatly improved and, hence, the performance of various energy conversion and storage devices has been effectively enhanced. Herein, this Special Issue aims to provide a better understanding of the related chemistry behind various energy conversion and storage techniques and reviews on the latest results that have been demonstrated to promote the performance of sustainable energy conversion and storage.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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