

Special Issue

New Metal Catalysts for Sustainable Chemistry

Message from the Guest Editor

Developing new metal catalysts for efficiently converting natural resources into valuable products is necessary to meet the high energy demand of human beings. This Special Issue aims to gather global experts to develop highly versatile, robust, and sustainable catalysts that could utilize earth-abundant small molecules more efficiently. The catalytic reactions include but are not limited to ammonia oxidation; carbon dioxide reduction; hydrocarbon functionalization; and splitting of dinitrogen, dioxygen, and water. We highly welcome original research articles, communications, and reviews covering the design of new metal catalysts, mechanistic study, and catalytic application for the above reactions. These results should provide valuable insights and contribute to the development of sustainable catalysts.

Guest Editor

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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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