

Special Issue

Cooperativity in Chemistry

Message from the Guest Editor

"The whole is more than the sum of its parts"—

Cooperativity is a fundamental principle in nature and specifically in molecular chemistry. In organic synthesis and catalysis, the synergistic action of reagents may increase the rate, yield or selectivity of reactions when compared to transformations in the presence of only one reagent or catalyst. In supramolecular chemistry, cooperativity modulates the binding energy of multifunctional molecules, controlling the formation of oligomeric or polymeric nanostructures in self-assembly processes. Magnetic and dielectric properties of molecules or molecular materials are in many cases determined by cooperative interactions of the constituting functional units. This Special Issue of *Molecules* invites representative original research papers and reviews that qualitatively or quantitatively elucidate cooperative effects in chemical reactions, molecular properties, and self-assembly processes by experiments or computational methods.

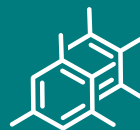
Guest Editor

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Deadline for manuscript submissions

closed (15 October 2020)



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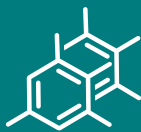


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About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th 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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