

Special Issue

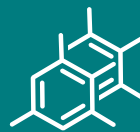
Photoinduced Processes in Molecular Systems

Message from the Guest Editor

The field of chemical processes induced by light in molecular systems (neutral or ionic molecules and molecular radicals) has experienced a great advance in the past few decades. Such processes have a fundamental impact in areas like atmospheric chemistry, astrophysics, and biochemistry. Despite the important advances achieved so far, many challenges and open questions still remain to be solved, both experimentally and theoretically. The rather recent application of attosecond laser pulses to probe ultrafast chemical processes (also known as attochemistry) is a clear example of the opening of new venues to improve our knowledge of chemical reactions and to address the many associated challenges. The development of theoretical methodologies able to treat and describe processes of interest in increasingly larger systems (e.g., of biological interest or in the area of nanomaterials) with sufficient accuracy is another important challenge that is currently being pursued. This Special Issue thus intends to advance this field, and contributions in the form of both original research articles and review articles are welcome.

Deadline for manuscript submissions

closed (31 March 2021)



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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).