



Intermolecular Forces: From Atoms and Molecules to Nanostructures

Guest Editors:

Prof. Dr. Jorge M. C. Marques

Universidade de Coimbra, Centro
de Química de Coimbra,
Coimbra, Portugal

qtmarque@ci.uc.pt

**Prof. Dr. Frederico
Vasconcellos Prudente**

Instituto de Física, Universidade
Federal da Bahia, 40170-115
Salvador-Bahia, Brazil

prudente@ufba.br

Prof. Dr. Fernando Pirani

Dipartimento di Chimica,
Biologia e Biotecnologie,
Università di Perugia, 06123
Perugia, Italy

pirani.fernando@gmail.com

Deadline for manuscript
submissions:

30 June 2021

Message from the Guest Editors

Dear Colleagues,

Intermolecular forces are at the core of the building up process of the formation of complex chemical structures. The characterization of the different types of intermolecular forces is important in order to assess their role in the formation of simple gaseous adducts, clusters, and nanostructures.

This Special Issue aims to contribute to the awareness of the state-of-the-art research on intermolecular forces. Accordingly, it is expected to publish work that falls within the following lines of research and related topics

- Theoretical methods and experimental techniques to evaluate molecular interactions;
- Potential models for describing intermolecular interactions;
- Fingerprints of hydrogen bonding and van der Waals interactions;
- Cooperative and selective processes involving inter- and intramolecular interactions;
- Intermolecular forces, microscopic and macroscopic properties;
- Microsolvation and the formation of clusters;
- Highlighting the role of intermolecular forces in molecular self-assembly to build nanostructures.

Prof. Dr. Jorge M. C. Marques

Prof. Dr. Frederico Vasconcellos Prudente

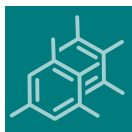
Prof. Dr. Fernando Pirani

Guest Editors



mdpi.com/si/64945

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Farid Chemat

Université d'Avignon et des Pays
du Vaucluse, 84029 Avignon,
France

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 22nd 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.

Author Benefits

Open Access:—free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed by the [Science Citation Index Expanded](#) (Web of Science), [MEDLINE](#) (PubMed), [Scopus](#) and [other databases](#).

Rapid Publication: manuscripts are peer-reviewed and a first decision provided to authors approximately 13.3 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2020).

Contact Us

Molecules
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
[@Molecules_MDPI](https://twitter.com/Molecules_MDPI)