



## Advances in Structure and Topochemistry of Nitro and Nitroso Compounds

Guest Editor:

**Prof. Dr. Hrvoj Vančik**

Department of Chemistry,  
Faculty of Science, University of  
Zagreb, Zagreb, Croatia

Deadline for manuscript  
submissions:

**closed (1 August 2022)**

### Message from the Guest Editor

Dear Colleagues,

Nitro and nitroso compounds afford special and interesting behavior in the solid polycrystalline phases. They, especially nitroso compounds, undergo chemical transformation that could be induced either photochemically or thermally. The investigation of these solid-state processes has provided us with deeper insight into the coupling between chemical reactions and phase transformations. The role of the molecular and crystal structure, as well as the topotactic effect on these processes is of high interest for the development of physical organic chemistry of solid-state reaction mechanisms. Rearrangements of nitro- and nitroso molecules in crystal phases by transformations of covalent bonds triggered by UV or VIS irradiation and the possibility of the formation of (semi)conducting organic polymers are interesting properties for the design of new materials with applications in molecular electronics.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical  
Biology and Phytochemistry,  
University of Münster,  
Corrensstrasse 48, D-48149  
Münster, Germany

## 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.

## Author Benefits

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

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1 (Chemistry (miscellaneous))

## Contact Us

---

*Molecules* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/molecules](http://mdpi.com/journal/molecules)  
[molecules@mdpi.com](mailto:molecules@mdpi.com)  
[X@Molecules\\_MDPI](#)