



Photoresponsive Materials and Properties Performance Mechanism

Guest Editors:

Prof. Dr. Long Y. Chiang

Department of Chemistry,
University of Massachusetts,
Lowell, MA 01854, USA

Dr. He Yin

Organix Inc., 240 Salem St.,
Woburn, MA 01854, USA

Deadline for manuscript
submissions:

closed (31 July 2023)

Message from the Guest Editors

Dear Colleagues,

Linear or nonlinear photoresponsive organic chromophores or donor–acceptor conjugates may undergo intermolecular or intramolecular energy- or electron-transfer mechanisms leading to photonic or electronic transient states. The consequences of these activated energy and electron states in molecular or nanoparticle configurations may facilitate a wide range of application fields, spanning from multiphoton absorptions or light-tunable photonics, energy upconversion, photoinduced conductivity in optoelectronic fields, biological FRET fluorescence imaging and photodynamic agents, and photoactivated information storage to dielectric amplification at microwave frequencies. The underlying chemistry of these advanced phenomena observed on organic materials may be assisted by incorporation of core–shell nanoparticles in configuration or in molecular self-assembly format. This Special Issue on “Photoresponsive Materials and Properties Performance Mechanism” will place emphasis on recent new developments in these research fields.





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 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Contact Us

Molecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

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