



## Novel Photoinitiators and Photopolymerization Technology

Guest Editors:

**Dr. Janina Kabatc**

**Dr. Alicja Balcerak-Woźniak**

**Dr. Paulina Bednarczyk**

**Prof. Dr. Zbigniew Czech**

Deadline for manuscript  
submissions:

**10 March 2025**

### Message from the Guest Editors

Over several decades, interest in light-initiated polymerization processes has rapidly increased. Due to numerous advantageous properties, photopolymerization has become one of the key technologies of Industry 4.0.

Photopolymerization reactions are commonly used in the production of various type of coatings (e.g., paints, lacquers, inks), adhesives, dental fillings, hydrogels, and smart materials, as well as in electronics, optics, 3D printing, and many other applications. The potential for the further development of this technology is huge.

The key role in photopolymerization is that of the photoinitiator. This compound undergoes a photochemical reaction after light absorption and forms reactive species that initiate the polymerization. Although there are many commercially available photoinitiators, the development of novel, highly effective initiators is still very important.

The scope of this Special Issue is to present recent advances in the design of novel photoinitiating systems and the improvement of photopolymerization technology. We look forward to receiving your contributions.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

## 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, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

---

Materials Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)