

# Special Issue

## Sol-Gel Materials for Optics and Photonics: Design, Processing, Characterization, and Implementation

### Message from the Guest Editors

Sol-gel technology is advantageous when developing materials from liquid rather than gaseous phases (such as in various CVD technologies). This process allows for the precise administration of the necessary compounds, while drastically reducing equipment costs (this is possible when replacing the gas flow control used in CVD via the weighting of sol components).

Consequently, Sol-gel-derived techniques can be applied for the successful and low-cost procurement of numerous optical and photonic components, including antireflective coatings, multilayer structures, or waveguide films to name a few. In this Special Issue, we invite you to submit your innovative research on the design, processing, characterisation, and application of sol-gel materials. The scope of this Special Issue covers the development of material systems, leading to improved optical properties, processes easing, and cost reductions for optic and photonic components and systems. Papers covering the design and characterisation of sol-gel-derived optical and photonic devices and systems are also welcome. We welcome both original research papers and in-depth reviews.

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### Guest Editors

Dr. Magdalena Zięba

Dr. Andrzej Kaźmierczak

Prof. Dr. Paweł Karasiński

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### Deadline for manuscript submissions

closed (20 November 2025)



## Materials

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*Materials*

Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

[materials@mdpi.com](mailto:materials@mdpi.com)

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## About the Journal

### 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.

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### 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

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