



Multifunctional Optical Nanomaterials

Guest Editor:

Dr. Mauricio E. Calvo

CSIC-USE - Instituto de Ciencia
de Materiales de Sevilla (ICMS),
Sevilla, Spain

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Message from the Guest Editor

This Special Issue is devoted to spreading the outstanding advances in the field of multifunctional optical materials. Optical or photonic materials have a real impact on our daily life, and it is projected that new advances in the field will be produced by the addition of new functionalities in the base material or by its integration in more complex architectures. We expect that these new features will arise not only from the rational synthetic design of the multifunctional materials to control the microstructure but also from the compatibility of the processes involved in their integration. In this Special Issue, we aim to explore new possibilities in the synthesis or the self-assembly of low dimensional materials (0D, 1D and 2D) (q-dots, nanowires, nanotubes, thin films, mesoporous materials, nanocomposites) that provide improvements in optoelectronics, optical bio-sensing or detection, and light driven energy conversion processes. These improvements could be a consequence between the interplay of the physico-chemical properties of the materials directed by its microstructure and the light management control based on different optical phenomena.





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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

Message from the Editor-in-Chief

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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