

Special Issue

Advanced Optical Nanomaterials: Design, Synthesis and Applications

Message from the Guest Editors

This Special Issue invites original contributions and reviews focused on the rational design, sustainable synthesis, and application of advanced nanomaterials with tailored optical properties. Special emphasis will be given to sensing applications. Further areas of focus include photocatalysis for energy and environmental applications, nonlinear optics for signal modulation and frequency conversion, bioimaging and diagnostics, as well as optoelectronic devices such as LEDs, photodetectors, and solar cells.

We encourage submissions that incorporate green and sustainable methodologies, including the use of renewable precursors, low-energy synthesis routes, non-toxic solvents, and environmentally benign processing techniques. Both experimental and computational studies are welcome, especially those that elucidate structure–property relationships and propose scalable or multifunctional solutions.

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