Special Issue

Applications of Nanomaterials in Optical Sensors, Second Edition

Message from the Guest Editor

Nanomaterials have attracted widespread attention since the 1990s due to their distinct features that set them apart from bulk materials. Because of their novel optical properties and promising applications, the use of nanomaterials in the design of optical sensors is now one of the most active research fields. In the last decade, nanomaterials (graphene, carbon nanotubes, metallic nanoparticles, silicon nanowires, and quantum dots, among others) have been combined with modern optical sensing techniques to provide us with many new tools for sensing applications that are not accessible by traditional sensing techniques, such as surface-enhanced Raman spectroscopy (SERS), surface plasmon resonance (SPR), photonic crystals, optofluidics, etc. In order to promote further developments in these fields, we are delighted to invite you to contribute a paper and share your valuable work in our upcoming Special Issue, entitled “Applications of Nanomaterials in Optical Sensors, Second Edition”. This Special Issue aims to cover recent advances and ongoing research in nanomaterial-based optical sensor applications. Full papers, communications, and reviews are welcome.

Guest Editor

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Deadline for manuscript submissions

closed (20 February 2026)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/223970

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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