Special Issue

Plasmonics and SERS-Stimulating Nanomaterials: New Trends on Biomedicine

Message from the Guest Editor

Dear Colleague, Nanomaterials and nanosystems, which have enormous promise in nanomedicine, are powerful tools that have only just begun to find application in clinics. Metal nanoparticles represent an extraordinary multifunctional framework in which targeting ligands, imaging agents and drug delivery for targeted imaging and therapy can be integrated. In particular, gold nanoparticles (AuNPs), to highlight just one of many examples, play valuable roles in biomedical imaging in fluorescence, light absorption and scattering, photoacoustic imaging, surface-enhanced Raman scattering and photothermal imaging. Furthermore, the exploitation of AuNPs by combining diagnosis and therapy processes could greatly improve cancer patients' outcomes. This Special Issue will focus its attention on current and future trends in the applications of plasmonic- and SERS-based materials in biomedicine.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2023)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/117665

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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.

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