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Innovative Biomedical Applications of Laser-Generated Colloids

Guest Editor:

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Message from the Guest Editor

Over the years, the laser synthesis and processing of colloids (LSPC) has grown significantly in importance, generating several examples of the successful application of colloids in various scientific and technological fields. With the improvement in synthesis control, the progress in the understanding of the process, and the expansion of the set of nanomaterials available by laser synthesis, the LSPC community has shown that it can provide effective and innovative solutions for biosensors, nanocomposite biomaterials, bioactive surfaces, antimicrobial agents, protein and biomolecule detection, multifunctional drug delivery, nanodrugs, and diagnostic and therapeutic agents, up to biodegradable inorganic nanomedicines.

This issue in *Nanomaterials* will bring together innovations in both the development of nanoparticles and their application in the biological or medical fields, by including manuscripts on the most important results achieved by LSPC researchers. By presenting a collection of recent advances from the LSPC community, we aim to further promote the emergence of new concepts and the progress of laser-generated colloids toward real-world biomedical use.

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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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