



Applications of Nano-Designed Systems in Biomedical Research

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Due to the unique properties of nano-designed systems as potential nanocarriers through biological barriers, their application in drug therapeutics is an important issue that should be specifically addressed. Thus, in an attempt to highlight the medical uses and applications related to nano-designed compositions, *Nanomaterials* has decided to publish a Special Issue “Applications of Nano-Designed Systems in Biomedical Research”, which will focus on recent studies and developments of nanosystems for the delivery of drugs and therapeutic agents. The Special Issue of *Nanomaterials* will include:

- Recent advances in theoretical modeling of drug solubilization and release from nanotechnology-based systems.
- Oral delivery and intestinal absorption of drug-loaded nanoparticles.
- Delivery of protein and peptide drugs via nano-systems
- Parenteral delivery and tumor targeting.
- Topical and dermatological use.
- Intranasal and brain targeting.
- Other applications (e.g., ophthalmic, periodontal, etc.).
- Methods and procedures for the manufacture of drug nanocarriers.





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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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