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Advanced Nanotechnology for Biomedical Research: Diagnosis, Drug Delivery and Targeted Therapy

Guest Editor:

Dr. Abdul K. Parchur

Department of Radiation
Oncology, Medical College of
Wisconsin, Milwaukee, WI 53226,
USA

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Message from the Guest Editor

Dear Colleagues,

Nanotechnology has opened up new horizons in the field of biomedical research, spanning areas such as diagnosis, drug delivery, targeted therapy, and beyond. Nanomaterials, boasting multifaceted characteristics, emerge as prime candidates for biomedical applications. Their key attributes, including increased loading capacity, expanded surface area, the potential for inducing reactive oxygen species, and adaptability for surface functionalization, position them at the forefront of innovation.

This Special Issue of *Nanomaterials*, titled 'Advanced Nanotechnology for Biomedical Research', seeks to assemble original research and review articles that shed light on the synthesis, modification, design, properties, and applications of biomedical nanomaterials in various domains. We cordially invite scientists and engineers from diverse multidisciplinary backgrounds, each with their unique technological expertise, to contribute their work to this Special Issue.

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Dr. Abdul K. Parchur
Guest Editor



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Special Issue



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Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

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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Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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