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Super-resolution Microscopy and Nanoscience

Guest Editor:

Dr. Elisabetta Canetta
School of Allied Health and Life Sciences, St Mary's University, Twickenham, London, UK

Deadline for manuscript submissions:
closed (12 March 2023)

Message from the Guest Editor

Super-resolution microscopy, also known as nanoscopy, is an umbrella term which encompasses all the optical microscopy techniques that are capable of going beyond the diffraction limit of optical microscopes and obtaining clear and highly resolved images of specimens with dimensions below 200 nm. Nanoscopy is primarily used in cell biology to observe the structural features of living organisms ranging from cells to proteins. It is also employed for investigations at the nanoscale and in real-time bio-interactions. Recently, an interest in the use of super-resolution microscopy in nanomedicine and bionanotechnology has arisen, paving the road for unprecedented advancements in diagnostic medical imaging.

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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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Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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nanomaterials@mdpi.com
𝕏@nano_mdpi