



Probing Single Events at the Nanoscale

Guest Editor:

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Message from the Guest Editor

Recent developments on time and spatially resolved analytical techniques have opened new avenues for understanding the processes and properties of materials and living systems at the nanoscale with unprecedented levels of sensitivity and reliability. Non-linear optical methods have allowed for the flourishing of multi-photon fluorescence microscopes able to probe sub-micron events in complex biological systems. The scientific community is facing a revolution centered on the need for reliable probing of single nano-events and correlating them with bulk observables of technological relevance. This Special Issue of *Nanomaterials* will cover the emerging field of “Probing Single Events at the Nanoscale”, providing a broad and inclusive forum at the interface between nanotechnology, analytical chemistry, structural biology, and engineering of microscopy tools. We welcome research articles, literature reviews, and perspective papers that could contribute to this exciting research field.





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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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