

## Special Issue

# Toxicology and Biocompatibility of Nanomaterials

### Message from the Guest Editors

Although the technological and economic benefits of NPs are obvious, concern has also been raised that the very same properties, which open a variety of novel applications, might have adverse effects if such material is inhaled, ingested, applied to the skin or even released into the environment. These concerns have led to an increasing discussion worldwide about possible regulatory policies for NPs. Therefore, there is clearly the need to establish convincing scientific knowledge to assess the impact of NPs on human health and the ecosystem. These questions can only be tackled by collaborative research at the interface of engineering, physics, chemistry, toxicology, and biology. This Special Issue will cover research in the field of nanotoxicology with a special interest in molecular mechanism of action as well as the safe-by-design concept, i.e., the synthesis of biocompatible nanomaterials. Further, the impact of the bio-corona, that is, the interaction of biomolecules with the NP surface, on toxicity and biocompatibility will be addressed. We welcome submission of reviews, original research articles, and communications.

### Guest Editors

Dr. Carsten Weiss

Institute of Biological and Chemical Systems–Biological Information Processing (IBCS-BIP), Karlsruhe Institute of Technology (KIT), Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany

Dr. Silvia Diabaté

Institute of Biological and Chemical Systems – Biological Information Processing (IBCS-BIP), Karlsruhe Institute of Technology (KIT), Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany

### Deadline for manuscript submissions

closed (25 June 2020)



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*Nanomaterials*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[nanomaterials@mdpi.com](mailto:nanomaterials@mdpi.com)

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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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### Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of  
Birmingham, Birmingham B15 2TT, UK

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