# Special Issue

# Nanoscience for Photonics and Spectroscopy

## Message from the Guest Editors

A Special Issue of *Nanomaterials* will discuss the state-of-the-art of "Nanoscience for Photonics and Spectroscopy". Today, nanoscience is closely related to photonics and spectroscopy. The ability to fabricate sophisticated nanostructures and nanodevices has enabled the study of fundamental light–matter interactions in the nanoworld. This Special Issue has a broad scope and encompasses both the application of nanostructures to study fundamental interactions at a single particle level and the development and characterization of nanosystems for photonics and spectroscopy applications. We cordially invite submissions of original research articles, comprehensive reviews and perspectives on, but not limited to, the following topics:

- Fabrication and characterization of nanostructures for photonics and spectroscopy applications;
- Hybrid organic–plasmonic systems;
- Nanophotonic energy conversion;
- Single-particle enhancement approaches;
- Manipulation and control of single-particle properties through coupling with nanostructures;
- Nanoscience for biosensing.

## Guest Editors

Dr. Lukasz Piatkowski

Institute of Physics, Poznan University of Technology, Piotrowo 3, 60-965 Poznań, Poland

Dr. Michał Kotkowiak

Institute of Physics, Poznan University of Technology, Piotrowo 3, 60-965 Poznań, Poland

## Deadline for manuscript submissions

closed (15 February 2022)

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

mdpi.com/journal/nanomaterials

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# About the Journal

## 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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

## 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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