

Special Issue

Plasmonics and Related Nanomaterials

Message from the Guest Editor

Over the last few decades, the field of plasmonic-based technologies has seen rapid growth in fundamental research and applications. Indeed, plasmonics is an amazing field dealing with the so-called ‘surface plasmons’, whose extraordinary properties arise from collective oscillations of conductive electrons, induced by electromagnetic radiation, on noble metal nanoparticle surfaces or thin films. Since plasmonic nanostructures have the ability to control light at the nanometer scale, one of the driving forces of the growing interest in this field is innovations in the design and synthesis of metal nanostructures. The perfect control of their size and shape may lead to the precise tuning of plasmon resonances. More recently, plasmonics was further stimulated by the description of several key processes related to the energetic (hot) charge carriers derived from plasmon dephasings, such as their transfer to nearby molecules or materials, leading to new results and applications.

Guest Editor

Prof. Dr. Frederic Lerouge
Ecole Normale Supérieure de Lyon, Lyon, France

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

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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. 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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