Special Issue

Synthesis of Hybrid Nanomaterials for Diagnostics and Bioimaging

Message from the Guest Editors

In the last several decades, the irruption of nanomaterials in the field of medicine has revolutionized the early diagnosis of diseases that could hardly be detected without them. The diagnosis is mainly based on molecular imaging that enables the visualization and follow-up of molecular processes at the cellular and molecular levels in living organisms by using biomarkers without perturbing them. The most common imaging techniques in clinical practice are magnetic resonance imaging (MRI), computed tomography (CT), positron emission tomography (PET) and single-photon-emission computed tomography (SPECT). Luminescent imaging (LI) is also used at the laboratory scale for fundamental studies. These techniques are considered non-invasive and provide, in a real-time manner, images with high spatial and temporal resolution with excellent anatomical details (mainly of soft tissue). In summary, a large number of different formulations of hybrid nanomaterials could be designed as potential diagnostic tools for clinical practice.

Guest Editors

Dr. Manuel Pernia Leal

Departamento de Química Orgánica y Farmacéutica, Facultad de Farmacia, Universidad de Sevilla, 41012 Seville, Spain

Prof. Dr. Alberto Escudero

1. Department of Inorganic Chemistry, University of Seville, 41092 Sevilla, Spain
2. Institute for Chemical Research (IIQ), University of Seville - CSIC, 41092 Sevilla, Spain

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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.

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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