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Functional Glyconanomaterials

Guest Editors:

Prof. Dr. Jose M. Palomo

Group of Chemical Biology and Biocatalysis, Department of Biocatalysis, Instituto de Catalisis and Petroleoquimica (ICP-CSIC), Marie Curie 2, 28049 Madrid, Spain

Prof. Dr. M. Carmen Galan

School of Chemistry, University of Bristol, Bristol BS8 1TS, UK

Prof. Dr. José Manuel García Fernández

Bioorganic and Supramolecular Carbohydrate Chemistry Group, Institute of Chemical Research (IIQ), CSIC – University of Seville, Americo Vespucio 49, 41092 Sevilla, Spain

Deadline for manuscript submissions:

closed (30 June 2021)

Message from the Guest Editors

Dear Colleagues,

Nanotechnology provides a new array of techniques and platforms to study glycosystems. Recent developments in the field have provided access to an advanced toolkit of synthetic nanomaterials and improved techniques to study such molecules at high resolution. Current advances in glycobiology research have demonstrated that glycosylated biomacromolecules play crucial roles in a wide range of important biological functions. Thus, the development of glycofunctionalized materials emulating or interfering in those processes, such as glycocarrier systems or glycoconjugate drugs, offer great potential for applications in a broad range of fields. The chemical diversity of carbohydrates can be exploited for the development of new materials with controlled and precise chemical, physical, and biological properties.

This Special Issue invites research articles involving the design, fabrication, and utilization of glyconanomaterials for biomedical applications.

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Special Issue



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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

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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Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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