



Nanomaterials: Design and Applications

Guest Editor:

Dr. Tivadar Feczko

1. Institute of Materials and
Environmental Chemistry,
Research Centre for Natural
Sciences, Magyar tudosok krt. 2.,
H-1117 Budapest, Hungary
2. Faculty of Engineering,
University of Pannonia, Egyetem
u. 10., H-8200 Veszprém, Hungary

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Message from the Guest Editor

Dear Colleagues,

Nanomaterials can be categorized according to their composition, such as inorganic, organic or hybrid materials. Nanomaterials such as nanowires, nanorods, nanolayers, and nanoparticles have been synthesized via bottom-up and top-down approaches. Recent advances in the manipulation of nanomaterials have facilitated and broadened the application of nanotechnology in different areas. Some of the most important advantages of nanomaterials are their small size and large functional surface area to volume ratio. Hence, nanomaterials exhibit outstanding physiochemical functionalities: increased absorption and reactivity, higher molar extinction coefficients, tunable plasmonic properties, quantum effects, as well as magnetic and photo properties. They have various application fields, such as biomedical tools, cosmetics, microelectronics, biological engineering, wastewater treatment, energy storage, packaging and photovoltaic devices, etc.

This Special Issue will collect research articles and review papers on synthesis, modification, functionalization, and characterization methods, as well as direct and indirect applications of all types of nanomaterials.





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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

Message from the Editor-in-Chief

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Molecules Editorial Office
MDPI, St. Alban-Anlage 66
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