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Nanoconstructs Based on Cyclodextrins

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Message from the Guest Editor

Dear Colleagues,

Cyclodextrin nanoconstructs (CDnc) have recently aroused the interest of scientific community thanks to a plethora of potential applications. This issue will be focused on nanoconstructs based on native or modified CDs leading to novel polymeric, amphiphilic, metal, and hybrid backbones in material science. In this scenario, four research themes are here envisaged:

- i) CDnc for drug delivery and nanomedicine (including nanomaterials for pharmaceuticals, theranostic, and scaffolds displaying nanodomains for regenerative medicine);
- ii) CDnc in food manufacturing;
- iii) CDnc in green chemistry and environmental sustainability (together with novel systems built in a nanoscale range for catalysis and conservation of cultural heritage);
- iv) Toxicological studies and CDnc/cell interactions;
- v) CDnc in renewable energy processes.

Articles will include synthesis of novel functionalized CDs and the formation of nanoassemblies with potential applications in i-v themes or novel and significant applications in i-v of known CDnc.

Prof. Antonino Mazzaglia
Guest Editor



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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.

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