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Polyol Synthesis: A Versatile Wet-Chemistry Route for the Design and Production of Functional Inorganic Nanoparticles

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Deadline for manuscript submissions:
closed (31 December 2019)

Message from the Guest Editors

Polyol synthesis has emerged these last years as a powerful and scalable wet-chemistry route for the production of chemically and structurally controlled inorganic nanoparticles. Through a simple optimization of the operating synthesis conditions, it allows the design of well-shaped homo- and hetero-nanostructured metal, oxide, chalcogenide, halogenide, alkoxide, or hydroxide particles, with a great applicative interest for various technological fields, including renewable energy, human health, environment, telecommunications. This Special Issue invites manuscripts concerning the synthesis of such functional nanoparticles, their characterization and upscaling with a particular emphasis on their applications through their integration in targeted electromagnetic-based devices. Original articles on synthesis strategies will be considered, including the preparation of metastable phases, original microtructures, new compounds, and in situ nanohybrids. Articles describing polyol-made nanoparticle shaping and their succesful use in different technological and biotechnological fields are also recommended.

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Editor-in-Chief

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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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