Special Issue

Multifunctional Inorganic Nanoparticles Design for Biomedical and Environmental Applications

Message from the Guest Editors

Inorganic nanoparticles functionalized with different organic and inorganic nanoentities have sparked increasing interest in the research community and industry. In the last decade, several synthetic strategies based on hydrothermal reactions, sol–gel processes, coprecipitation methods, and the post-synthesis approaches necessary to decorate the surface of the final nanoparticles have been optimized. Depending on the functionalization process, these systems have been used in different fields, from catalysis to biomedical and environmental applications. This themed Special Issue aims to promote the most recent contributions related to the optimized synthesis of multifunctional inorganic nanoparticles bearing in the structure paramagnetic centers, luminescent entities, and organic–inorganic functionalities. Contributions demonstrating the use of these nanosystems for diagnostic and theranostic applications and for environmental purposes, with particular attention paid to the removal of metal and organic pollutants from different matrices, are also welcome.

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Deadline for manuscript submissions

closed (20 May 2023)

Processes

an Open Access Journal by MDPI

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CiteScore 5.5

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Editor-in-Chief

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