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Research of Photocatalytic, Antibacterial and Biocompatible Properties of Nanoparticles

Guest Editor:

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Message from the Guest Editor

Applications of nanoparticles are widespread in all aspects of modern life, but photocatalysis has received particular attention due to its capacity to convert solar energy at low cost and high efficiency. Furthermore, on surfaces coated with a thin layer of photocatalyst, inactivation of microorganisms and mineralization of organic matter was observed following advanced oxidation processes. According to the scientific literature, the diversity of nanomaterials is huge, and moreover, approaches to their synthesis are in continuous development, thanks to efforts made to design new nanomaterials with improved properties. However, technological progress should be accompanied by a constant need to check whether these properties are safe for the environment and human health.

The aim of this Special Issue is to summarize the progress and advances in the development of new photocatalytic, antimicrobial, and biocompatible nanoparticles and their applications. We would like to invite you to submit contributions presenting your recent research articles, reviews, and brief communications revealing new trends in the research on photocatalytic, antimicrobial, and biocompatible nanoparticles.

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Message from the Editor-in-Chief

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