Special Issue

Photodynamic Properties of Nanoparticles

Message from the Guest Editor

Nanoparticles play a crucial role in multiple areas, such as chemical and biological sensing, catalysis, imaging, and diagnosis, among others. The development of nanoparticles with unique and key physicochemical properties and advantageously photodynamic properties provides innovative photosensitizer solutions to be used in photodynamic therapies. Photosensitizer drugs are photoactivated molecules or materials, which generate reactive oxygen species (ROS), like singlet oxygen (1O2), through a series of photochemical events that ideally culminate in cell death. The use of nanoparticles as photosensitizers have emerged in the past years and will be explored in this Special Issue. This Special Issue is devoted to the synthesis, characterization, and application of nanoparticles in photodynamic therapies, with a special focus on their photodynamic properties. In this Special Issue, submissions in the form of full-length articles, reviews, communications, and mini-reviews on nanoscience/technology at the interface of engineering, biology, physics, chemistry, and materials are encouraged for submission.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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