Special Issue

Nanomaterials Applied in Regenerative Healing and Scar Free Healing Current Concepts and Future Perspectives

Message from the Guest Editor

Among its numerous functions, the skin is mainly responsible for maintaining the structural and physiological barrier between an organism's internal and external environment. As the first line of defense against external threats, the skin is injured more frequently than any other tissue and the damage, while repairable, leads to permanent scarring in mammals. In domestic animals and humans, scarring on the skin after surgery, trauma, burn, or sports injury is a major medical problem, generally resulting in adverse aesthetics, loss of function, restriction of tissue movement, and/or growth and adverse psychological effects. The main objective of this Special Issue is to collect the knowledge for the prevention and/or treatment of dermal scarring because the current treatments are empirical, unreliable, and unpredictable.

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.

Editor-in-Chief

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