Special Issue

Nano-Engineering Solutions for Dental Implant Applications

Message from the Guest Editor

Dental implant failure due to lack of integration (between implant and tissue) and bacterial infection presents a major health and economic challenge, especially in patients with ongoing conditions. This Special Issue will shine light on recent nano-engineering advances that revolutionize dental implant technology, by creating the next generation of implants capable of providing maximum local therapy to drastically reduce implant failures. Various nano-engineering strategies have been applied in dentistry to enable augmented osseointegration, soft-tissue integration, and antibacterial functions from the surface of dental implants. From enhanced surface bioactivity to local drug therapy, nano-scale surface modification of dental implants has attracted attention in alleviating challenges associated with long-term implant success especially in compromised conditions. For further reading, please follow the link to the Special Issue Website at: http://www.mdpi.com/si/56574

Guest Editor

Dr. Karan Gulati

School of Dentistry, The University of Queensland, Herston, QLD 4006, Australia

Deadline for manuscript submissions

closed (31 July 2021)



Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3 CiteScore 9.2 Indexed in PubMed



mdpi.com/si/56574

Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

mdpi.com/journal/nanomaterials





Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3 CiteScore 9.2 Indexed in PubMed



About the Journal

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 nanometerscale 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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)

