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## Application of Nanocomposite in Biomaterials

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### Message from the Guest Editors

The aim of this Special Issue is to collate research articles on the current advancements in nanocomposites for biomedical applications. For biomedical applications, polymer nanocomposites are fabricated by combining different types of nanofillers that are uniformly distributed in a polymer matrix. This special type of composite provides a unique opportunity to customise the material properties in different biomedical fields, such as replacing body parts, tissue engineering, antimicrobial resistance and drug delivery, to address many of the challenges that are present in the healthcare sector. Nanomaterials come in different shapes, such as nanoparticle, nanoflake, nanotube, nanosheet, nanorod, nanowhiskers, etc. On the other hand, the matrix materials include mainly two types of polymers: natural bio-based materials (e.g., chitosan) and synthetic polymer (e.g., PMMA). Nanofillers can play key role in improving physical, chemical, optical or biological properties of the composite material. Biomimetic polymer composites for improved mechanical properties and advances in 3D printing fabrication of nanocomposites are also welcome.



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# Special Issue



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## Editor-in-Chief

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## Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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