



## New Advances in Mechanical Behaviour of Biomaterials

Guest Editor:

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### Message from the Guest Editor

At present, there are a large number of biomaterials developed for the manufacture of medical implants and devices. A desirable combination of properties, including mechanical, has always been an important target to achieve, in addition to biocompatibility, in order to produce medical implants that will have an acceptable performance in the body. This becomes more significant for those implants that are subjected to mechanical loads, such as orthopaedic implants under the mechanical loads of a patient's physical activities. Given an implant failure can result in significant consequences, the mechanical behaviour of biomaterials used for medical implants and devices has continuously been a subject for research and advancement with the aim to improve the performance and longevity of implants in the body.

### Keywords

- biomaterials
- mechanical behaviour
- fatigue and fracture
- fretting wear
- fretting corrosion
- microstructure
- simulation and modelling





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## Message from the Editor-in-Chief

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