

Special Issue

Functional Materials Characterization for Advanced Engineering Applications: Microstructural, Mechanical, Tribological and Corrosion Properties

Message from the Guest Editors

The engineering functional materials paradigm involves understanding the relationships that exist between the processing, structure and properties of this class of materials, which will help to further ascertain their suitability for intended applications. This Special Issue will consider engineering materials that are fabricated using techniques including (but not limited to) spark plasma sintering, high-volume molding methods, additive manufacturing and casting. Properties such as microstructural, mechanical, tribological and corrosion properties also play key roles in determining the in-service performance of these materials, hence the need to fully understand them. Keywords

- material characterization
- nanocomposite fabrication
- powder metallurgy
- electrochemistry
- nanomaterials
- biomaterials
- tribology
- nanoindentation analysis
- structural mechanics

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Deadline for manuscript submissions

closed (29 February 2024)



Applied Sciences

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CiteScore 5.5



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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.

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