



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

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Message from the Guest Editors

Dear Colleagues,

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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Message from the Editor-in-Chief

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