Special Issue

Latest Advances and Prospects of Functionally Graded Material

Message from the Guest Editor

Scientists and engineers today recognize the importance of innovation in materials use for economic and environmental reasons. Functionally graded materials are advanced materials with gradual transitions in microstructure and composition. FGM structures can be efficiently designed to obtain a specific performance or function by changing the spatial gradation in composition, allowing the designer to tailor the required physical and mechanical properties and the corresponding structural behavior. The development of accurate models and efficient optimization techniques applied to the design of FGM structures are important topics of research. However, additionally, the challenges related to the manufacturing techniques are major topics of research. From this perspective, this Special Issue aims to contribute to this research area by presenting the most relevant advances and prospects in all aspects of the design and manufacturing of functionally graded materials.

Guest Editor

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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.

Editor-in-Chief

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