

Special Issue

Scanning Electron Microscopy and Energy-Dispersive Spectroscopy Analyses in Materials Science

Message from the Guest Editors

Microstructure and chemical composition of metallic and non-metallic materials play a decisive role in materials' properties. Obtaining extraordinary characteristics of materials can be achieved primarily by changing their structure and chemical composition. Each alloy system can be considered a small universe with unique properties and infinite possible modifications of properties from the atomic to the macro scale. Alloying and modifying surface properties can fundamentally change the characteristics of a material. Electron and atomic force microscopy along with chemical composition determinations from the nano to the millimeter scale provide precious information about the actual state of the material and lead to opportunities to improve their properties.

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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.

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