Special Issue

Functional Ceramics: From Fundamental Research to Applications

Message from the Guest Editors

Functional ceramics have gradually gained importance in recent years; these interesting materials have been used in electronic devices in many important applications. Functional ceramics is an applied science that studies the design, material composition, material properties, and applications of substances and devices made of functional ceramics. Electronic semiconductor devices and optical coatings are the main applications of functional ceramic thin-film technology today. This technology has a wide range of applications. Much research has used different thin films for computer storage devices, pharmaceuticals, manufacturing thin-film batteries, dye-sensitized solar cells, and more. Due to the relatively high hardness of ceramic materials, such films are used to protect substrates from corrosion, oxidation, and wear. The Special Issue on functional ceramics presents the growth, characteristics, and applications of nanostructured thin films in various domains. We invite contributions from leading groups in the field with the aim of giving a balanced view of the current state of the art in this discipline.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2025)

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/si/181749

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