Special Issue

Porous Ceramics and Their Composite Materials

Message from the Guest Editors

Porous ceramics exhibit a range of desirable properties, including low density, large specific surface area, high toughness, mechanical strength, good thermal shock resistance, low dielectric constant, low thermal conductivity, and excellent high temperature and chemical stability. These characteristics make porous ceramics essential in various fields, such as high-temperature filtering, porous burners, membrane and catalyst supports, lightweight load-bearing structures, energy storage and conversion components, energy harvesting devices, and insulators, among others.

This Special Issue focusing on porous ceramics and their composites could encompass research papers that delve into topics such as novel processing techniques, advanced characterization methods, investigations into mechanical and thermal properties, studies on chemical stability and corrosion resistance, exploration of new applications, and evaluation of the performance of porous ceramic composites. porous ceramics and composites
lightweight ceramics
porous geopolymer
ceramics for water purification
3D-printed porous ceramics
sustainable ceramics derived from solid wastes
glass ceramic foams

Guest Editors

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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