Special Issue

Functional Materials and Metamaterials

Message from the Guest Editors

Functional materials and metamaterials involve the cross-disciplinary fields of material science, surface engineering, advanced manufacturing, condensed matter physics, quantum theory, and more. Their properties continuously inspire the creativity of researchers. A variety of these materials have been designed and fabricated, such as functional ceramics, left-handed materials, photonic crystals, 2D materials, perovskites, and other materials with a bright application prospect. The fabrication generally involves multi-scale manufacturing processes such as precision machining, micro/nanoforming, 3D printing, biochemical synthesis, and coating and deposition. New fabrication approaches with good flexibility and high productivity are desired for the emerging functional and metamaterials. Meanwhile, their performance evaluation and application in fields like energy, sensing, biomedical engineering, communication, and computing also need to be extensively explored. This Special Issue aims to collect original research articles and reviews focusing on fundamental theories, function mechanisms, novel design strategies, advanced manufacturing approaches and new applications.

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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