Special Issue

Graphene-Based Metasurfaces

Message from the Guest Editors

Graphene is a two-dimensional material made of carbon atoms arranged in a honeycomb lattice. Due to its unique band structure, graphene's optical properties can be dynamically modified by external sources, which provide strong tunability for electromagnetic surfaces. Graphene has been examined and employed as a constituent element in a variety of metamaterials and metasurfaces configurations. In the design of metasurfaces, graphene has been patterned into specific structures or hybridized with metallic and dielectric metasurfaces, which realizes strong field localization. The high localization enhances the wave-matter interactions in graphene and leads to evident reconfigurability of the overall response via external sources. This may lead to a variety of tunable electromagnetic functionalities, placing graphene at the center of the research attention in metasurface technologies.

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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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