Special Issue

Recent Advancements in Graphene Nanomaterials

Message from the Guest Editors

Following its discovery in 2004, graphene stimulated unprecedented interest in academia and industry and among investors worldwide. The exceptional traits of this nanomaterial quickly made it a potential component for a plethora of applications, including energy, automobiles, healthcare, aerospace, and so forth. Over the span of two decades, a vast number of research articles have emerged, and the efforts to scale graphene for commercialization are occurring in a way that has not happened for any other material. That said, graphene has not yet fulfilled its promise or realized all its potential; there is still much to be undertaken in terms of scaling up, ensuring consistent quality production, and setting clear standards. In addition to its synthesis, further exploration of its novel properties is also warranted to meet the demands of emerging technologies. The emergence of computing approaches such as machine learning (or, in a broader sense, artificial intelligence) can be leveraged to harvest the true potential of graphene, accelerate further advancements, and foster its commercialization.

Guest Editors

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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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