

Special Issue

Intelligent Manufacturing and Application of Crystalline Porous Materials

Message from the Guest Editors

Crystalline porous materials have emerged as a fascinating area of research with significant potential. These materials, including advanced zeolites, metal organic frameworks (MOFs), and covalent organic frameworks (COFs), possess unique structural features.

In the context of intelligent manufacturing, advanced techniques are being developed to precisely control the synthesis of these materials. This involves using computational design to predict and optimize their structures for specific applications.

In the energy sector, they can be used for gas storage and fuel cell applications. In environmental remediation, they can selectively remove pollutants from air and water. In the future, intelligent manufacturing will play a crucial role in further enhancing the performance of these materials. This Special Issue aims to gather the latest research in this exciting intersection of intelligent manufacturing and crystalline porous materials, with a view to driving innovation and progress in the field.

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About the Journal

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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