



Artificial Crystals

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Message from the Guest Editors

Research on artificial crystals has a long history. A series of important crystals were explored from early synthetic crystals, such as rubies and diamonds, through current widely-used crystals such as Si, Ge, LiNbO₃, LiTaO₃, KTiPO₄, β -BaB₂O₄, LiB₃O₅, Bi₄Ge₃O₁₂, Y₃Al₅O₁₂, and sapphire, to current research hotspots such as SiC, AlN, and sesquioxide single crystals. Based on these crystals, lots of new optoelectronic devices have been developed and are widely used in scientific research and industrial applications. Meanwhile, there are still many promising research fields that have yet to be further explored. For example, the basic principles of crystal materials are still unclear and higher quality, larger, and novel crystals are always in demand. This Special Issue aims to provide a timely collection that highlights the advances in the current research on artificial crystals, ranging from fundamental aspects to current applications—shedding light on further research in related fields.





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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.

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