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Polymorphism in Crystals

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Message from the Guest Editors

Dear Colleagues,

Polymorphism, the property of a compound to crystallize in more than one distinct crystal form, plays an indispensable role in researching and developing pharmaceuticals, agrochemicals, materials, and food. The study on polymorphs' behavior can provide a theoretical basis for selecting optimal solid forms and serve for the polymorphic control and optimization of products as a primary method. Recently, significant progress has been made in the experimental discovery and theoretical prediction of crystal polymorphs. A large quantity of molecules have been discovered to have polymorphs that are mainly attributed to the molecule's conformational flexibility and the existence of various functionalities in the molecule that could act as hydrogen bond donor/acceptor.

Moreover, computational predictions usually yield far more possible polymorphs than are known. The ultimate limitations of experimental reachable polymorphs and thermodynamical and structure–activity relationships of the polymorphs remain an open question.



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Special Issue



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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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