

Special Issue

Polycrystalline Varieties of Diamond

Message from the Guest Editor

There are several types of polycrystalline varieties of diamond: bort, diamondite, balas, carbonado, yakutite, and some others. They have different forms, structures, carbon and nitrogen isotope characteristics, and modes of origin. Unlike monocrystalline diamonds, formed within mantle rocks and transported to the Earth's surface by kimberlite/lamproite pipes, bort and diamondite may form within kimberlite and lamproite magmas; lonsdaleite-bearing yakutite is a product of an impact process as a result of a meteorite hitting the Earth; and carbonado, most likely, crystallises under low-pressure conditions out of the “classical” diamond stability P - T field. Recently, aggregates of diamond were identified in products of volcanic eruptions. Various models have been offered to explain the origin of these polycrystalline varieties of diamond, and some of them remain enigmatic. A Special Issue plans to present new data on polycrystalline varieties of diamond and new hypotheses on their origin.

Guest Editor

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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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