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Nanocrystals for Catalysis

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Deadline for manuscript submissions:
closed (31 October 2023)

Message from the Guest Editors

Nanocrystals are becoming increasingly crucial in catalysis due to their unique physicochemical properties that have the potential to revolutionize traditional applications of catalysis. These nanometer-sized particles (at least one dimension < 100 nm) display different levels of crystallinity, with a high surface area and tunable levels of porosity, chemical stability, amount and type of defects, and exposed crystal facets. Such structural and chemical versatility makes them highly suitable catalysts for various reactions.

As the development of nanocrystals presents opportunities in catalysis for industry and academia by offering promising solutions for various challenges in catalysis research, we invite researchers to contribute to the Special Issue of Nanocrystals for Catalysis. We aim to create a forum to explore more efficient and greener synthetic methods and processes, as well as unveil new reaction mechanisms. We hope that scientists will be able to unlock even more potential from these materials, leading toward innovative applications.

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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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