

Special Issue

Crystal Nucleation and Growth Kinetics

Message from the Guest Editors

This Special Issue is committed to encouraging the dissemination/exchange of scientific knowledge and innovative ideas among researchers working on diverse themes ranging from crystallization fundamentals to crystal engineering and crystallization process design and development. Scientific contributions on the measurement and modelling of crystal nucleation and growth rates, providing new insights into the following aspects of crystallization are highly encouraged: 1) Particle engineering and polymorphism; 2) Nucleation pathways (Classical and non-classical nucleation mechanisms) and their relevance for industrial crystallization; 3) Use of additives, heterogeneous templates, confinement (droplets, microfluidics and nanofluidics), and external fields (ultrasound, laser, electric and magnetic) to control crystallization; 4) The effect of impurities on crystal quality attributes and chemical purity; 5) Intermolecular interactions that govern the formation of multicomponent crystals such as co-crystals, solvates, hydrates and salts; 6) Preferential crystallization of chiral compounds.

Guest Editors

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Deadline for manuscript submissions

closed (15 June 2021)



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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

Prof. Dr. Alessandra Toncelli

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