



# Perspectives on Inorganic, Organic, and Biological Crystal Growth: From Fundamentals to Applications: 13th International Summer School on Crystal ... / Materials Physics and Applications)

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## **Perspectives on Inorganic, Organic, and Biological Crystal Growth: From Fundamentals to Applications: 13th International Summer School on Crystal ... / Materials Physics and Applications)**

This book provides a comprehensive overview of crystal growth for graduate students who are about to engage in the research on crystal growth, as well as, experienced researchers who are interested in broadening their perspective of the crystal growth field and learning about new materials and techniques. A wide range of crystal growth topics are covered in 27 separate title areas, including underlying fundamentals of crystal growth such as thermodynamics, kinetics, fluid dynamics, and growth mechanisms of crystals grown from the melt, solution, and vapor; large scale bulk crystal growth, to thin films, and nanoscale dimensions of quantum dots and wires; about macroscopic and atomistic transport processes in crystal growth including modeling, simulation, and in-situ experiments. A wide range of materials treated in this book includes semiconductors, nonlinear optical crystals, metals, biominerals, inorganic minerals, and organic crystals. This book also highlights several key novel crystal technology application areas such as crystals for Light Emitting Diodes, nonlinear optical crystals, nanophotovoltaics, and artificial bones and teeth. It was our intention that even crystal growth experts will find new material of interest to them in this book.



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