



crystals



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KTP Crystal for Nonlinear Optical and Electrooptic Applications

Guest Editor:

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Deadline for manuscript submissions:

closed (30 June 2018)

Message from the Guest Editor

This Special Issue will cover a wide range of topics related to KTP crystals: from last achievements in crystal growth, improvement of the gray-track resistance, and study of their piezoelectric, ferroelectric, electrooptical, and nonlinear-optical properties to various photonic applications in wide spectral range from near UV to THz. Special attention will be given to in situ study of the domain structure evolution with high temporal and spatial resolutions and new approaches to periodical poling based on surface modifications.

Scientists and engineers working with crystals of KTP family are invited to contribute to the issue.

The potential topics include, but are not limited to:

- potassium titanyl phosphate
- crystal growth
- domain structure
- domain engineering
- piezoelectric and ferroelectric properties,
- electrooptical and nonlinear-optical properties
- light frequency conversion
- second harmonic generation
- optical parametric oscillation
- THz wave generation



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Special Issue



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Editor-in-Chief

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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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