



Volume 70, Issue 1

February 2025



20 articles in this issue

Simulation of Sanmartinite ZnWO_4 by the Method of Interatomic Potentials

V. B. DudnikovaE. V. ZharikovN. N. Eremin

CRYSTAL CHEMISTRY | 05 May 2025 | Pages: 1 - 7



Effect of Copper Ions on the Crystal Packing and Conformation of Thiocyanate Dehydrogenase in the Crystal Structure

L. A. VarfolomeevaA. Yu. SolovievaV. O. Popov

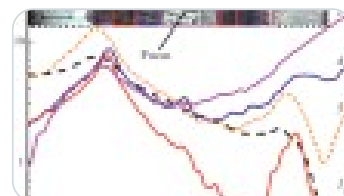
STRUCTURE OF MACROMOLECULAR COMPOUNDS | 05 May 2025 | Pages: 8 - 15



Dynamics of New Phase Formation in Silicon during Femtosecond Laser Ablation

E. I. MareevD. N. KhmeleninF. V. Potemkin

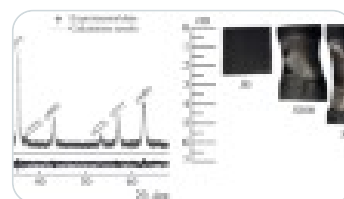
LATTICE DYNAMICS AND PHASE TRANSITIONS | 05 May 2025 | Pages: 16 - 23



Phase Transitions in Poly(Vinylidene Fluoride)-Based Composite under Mechanical Stresses

P. A. VorontsovV. D. SalnikovV. V. Rodionova

LATTICE DYNAMICS AND PHASE TRANSITIONS | 05 May 2025 | Pages: 24 - 30



ZnO Microtubes: Formation Mechanism and Whispering Gallery Mode Lasing

A. P. TarasovL. A. ZadorozhnayaV. M. Kanevsky

PHYSICAL PROPERTIES OF CRYSTALS | 05 May 2025 | Pages: 31 - 38



Allowance for the Imperfection of the Spectrophotometric Complex Optical Elements When Measuring Transmission Spectra of Gyrotropic Uniaxial Crystals. I: Samples Are Cut Perpendicular to the Optical Axis

T. G. GolovinaA. F. KonstantinovaV. M. Kasimova

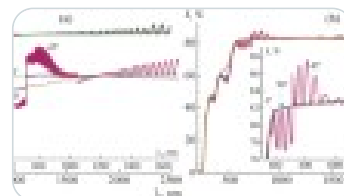
PHYSICAL PROPERTIES OF CRYSTALS | 05 May 2025 | Pages: 39 - 49



Allowance for the Imperfection of the Spectrophotometric Complex Optical Elements When Measuring Transmission Spectra of Gyrotropic Uniaxial Crystals. II: Samples Are Cut Parallel to the Optical Axis

T. G. GolovinaA. F. KonstantinovaV. M. Kasimova

PHYSICAL PROPERTIES OF CRYSTALS | 05 May 2025 | Pages: 50 - 57



Atomistic Simulation of Paratellurite α -TeO₂ Crystal. II: Anisotropy and Microscopic Aspects of Ion Transport

A. K. Ivanov-Schitz

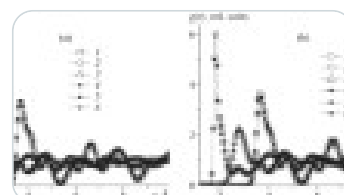
PHYSICAL PROPERTIES OF CRYSTALS | 05 May 2025 | Pages: 58 - 63



Atomistic Simulation of Paratellurite α -TeO₂ Crystal. III: Anisotropy of Ion Transport under External DC Electrical Field

A. K. Ivanov-Schitz

PHYSICAL PROPERTIES OF CRYSTALS | 05 May 2025 | Pages: 64 - 67



Study of Pb_{0.5}Cd_{0.25}Lu_{0.25}F_{2.25} Fluorite Solid Solution with Congruent Melting Nature

I. I. BuchinskayaM. V. KoldaevaD. N. Karimov

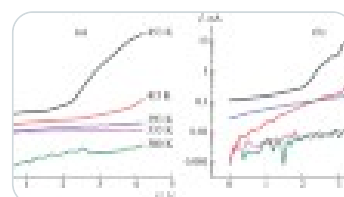
PHYSICAL PROPERTIES OF CRYSTALS | 05 May 2025 | Pages: 68 - 76



Cesium Hydrosulfate Phosphate Crystals: Conductivity and Real Structure at Increasing Temperature

R. V. GainutdinovA. L. TolstikhinaV. A. Komornikov

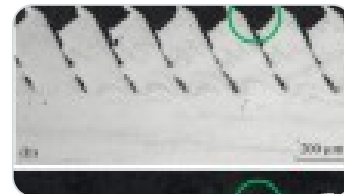
SURFACE AND THIN FILMS | 05 May 2025 | Pages: 77 - 82



Investigation of the Inhomogeneous Deformations of Crystal Lattices during Deformational Cutting of 08Kh18N10T Steel Samples with a Periodic Surface Relief

B. E. VintaikinYa. V. CherenkovS. G. Vasiliev

SURFACE AND THIN FILMS | 05 May 2025 | Pages: 83 - 89



Quantum Size Effect under Normal Incidence of a Medium-Energy Electron Beam onto a Growing Heteroepitaxial Film

S. M. Shkorniyakov

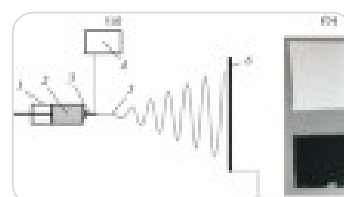
SURFACE AND THIN FILMS | 05 May 2025 | Pages: 90 - 95



Electrically Conductive Nonwoven Materials Produced by Electrospinning of Polyaniline and Commodity Polymers

S. N. MalakhovYu. N. MalakhovaS. N. Chvalun

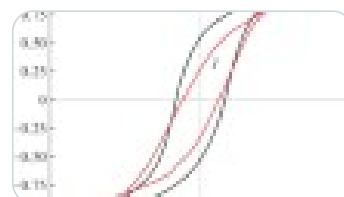
NANOMATERIALS AND CERAMICS | 05 May 2025 | Pages: 96 - 102



Synthesis of Nickel Nanodisks and Their Application in the Modification of Polyelectrolyte Microcapsule Shells

V. V. SarukhanovaI. M. DoludenkoT. V. Bukreeva

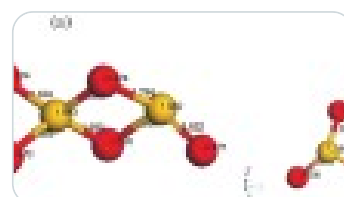
NANOMATERIALS AND CERAMICS | 05 May 2025 | Pages: 103 - 109



Computer Simulation of AgI|Si₃O₆ Complex Nanocomposites in Single-Wall Carbon Nanotubes

A. V. PetrovI. V. MurinA. K. Ivanov-Schitz

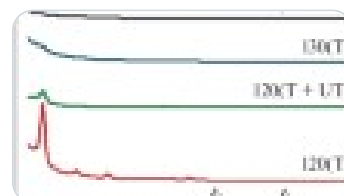
NANOMATERIALS AND CERAMICS | 05 May 2025 | Pages: 110 - 115



Investigation of Photonic Curing Mechanisms of Sol–Gel Zinc Oxide Films for Flexible Electronics

I. A. ProninA. S. KomolovN. D. Yakushova

NANOMATERIALS AND CERAMICS | 05 May 2025 | Pages: 116 - 121



Crystal Structure Analysis of Epitaxial Nanoheterostructures with Multiple Pseudomorphic Quantum Wells {In_xGaAs/GaAs} on GaAs (100), (110), and (111)A Substrates

E. A. KlimovA. N. KlochkovS. S. Pushkarev

CRYSTAL GROWTH | 05 May 2025 | Pages: 122 - 128

δ -GaAs (buffer)	100 nm	100 nm	δ -GaAs (buffer)
δ -GaAs (sublayer)	1 nm		δ -GaAs (sublayer)
δ -In _x Ga _{1-x} As (QW)	25 nm		δ -In _x Ga _{1-x} As (QW)
δ -GaAs (buffer)	200 nm		δ -GaAs (buffer)
δ -GaAs (sublayer)			GaAs substrate

Chemical Composition of Polychrome Enamels of Three Ancient Russian Bronze Items from Vladimir–Suzdal Rus’

E. K. StolyarovaT. F. MukhinaE. B. Yatsishina

CRYSTALLOGRAPHIC METHODS IN HUMANITARIAN SCIENCES | 05 May 2025 | Pages: 129 - 150



Combinatorial Complexity of the Signature of a Natural Tiling

D. A. Banaru

CRYSTALLOGRAPHIC SOFTWARE | 05 May 2025 | Pages: 151 - 157

