



Brief Review

The local structure of skutterudites: A view from inside the unit cell

Frank Bridges

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Research Papers

Analysis of the peak position and linewidth as a function of temperature for the phase transitions in LiKSO_4

H. Yurtseven, M. Kurt

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Quantum evolution of a qubit state with decoherence and LFC

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On a moving four-level Λ -type atom interacting with two-mode cavity field in the presence of the cross-Kerr medium

N. H. Abdel-Wahab, Lamia E. Thabet

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The coating design of phase-shifting reflector array with high reflectance and specified reflection phase shifts for static Michelson interferometer

Xuanni Zhang, Hui Zhang, Yijun Wang

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Skin-depth lattice strain, core-level trap depression and valence charge polarization of Al surfaces

Yan Wang, Maolin Bo, Yonghui Liu, Yongling Guo, Haibin Wang, Jian Yue, Yongli Huang

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Photoionization microscopy of hydrogen in magnetic and quadrupolar electric fields

Hai-Feng Yang, Yong-Gang Tan, Zhong-Li Liu, Hong-Zhi Fu

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Synthesis of CuO nanowires on Cu-foil using thermal oxidation method, a novel annealing process

Hosein Eshghi, Mehdi Torabi Goodarzi

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New generation chiral metamaterials based on omega resonators with small and smooth chirality over a certain frequency band

Furkan Dincer, Oguzhan Akgol, Muharrrem Karaaslan, Emin Unal, Ekrem Demirel, Cumali Sabah

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An analytical solution for light scattering by metallic cylindrical nanoparticles with core-shell structure

Nader Daneshfar, Majid Moradi

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Numerical investigations on reignition behavior of detonation diffraction

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Synthesis and characterization of nanocrystalline LaMnO₃ modified BaTiO₃ ferroelectric ceramics prepared by chemical route

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Modeling of depletion width variation over time in thin film photovoltaics

Marouf Aldosari, Liliana Grigoriu, Hamed Sohrabpoor, Nima E. Gorji

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Plasmonic analog of electromagnetically-induced transparency of asymmetrical slots waveguide

Lin Sun, Jicheng Wang, Zheng-Da Hu, Xiaosai Wang, Jing Chen

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Measurement of junction temperature and thermal resistance in InGaAlAs/AlGaAs quantum-well superluminescent diodes (SLDs)

Shuai Zhou, Jing Zhang, Li-Hua Duan, Zu-Rong Tang, Guang-Hua Deng

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Inequalities for the quantum privacy

M. A. S. Trindade, E. Pinto

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The bandgap distribution investigated across the strain-induced bending ZnO nanowire

Geoffrey Tse, Dapeng Yu

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Suppressing failure cascades in interconnected networks: Considering capacity allocation pattern and load redistribution

Sheng Hong, Xiaojie Zhang, Juxing Zhu, Tingdi Zhao, Baoqing Wang

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Implementing NN-quantum phase gate via circuit QED with qubit-qubit interaction

T. Said, A. Chouikh, K. Essammouni, M. Bennai

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Controlled quantum secure communication protocol with single photons in both polarization and spatial-mode degrees of freedom

Lili Wang, Wenping Ma

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