

MU
J 80/p2



VOLUME 75 ISSUE 8 ISSN 0022-3697
2014 AUGUST

JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS

AN
INTERNATIONAL
JOURNAL

EDITORS

Arun Bansil

Boston

Hai-Ping Cheng

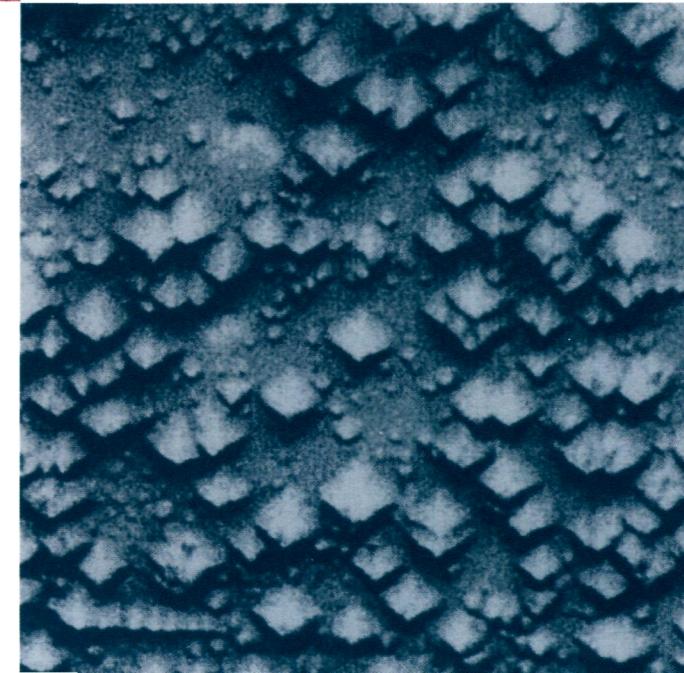
Florida

Kosmas Prassides

Durham

Masaki Azuma

Japan



Abstracted / indexed in: Cambridge Scientific Abstracts, Chemical Abstracts, Current Contents/Engineering, Computing & Technology, EIC/Intelligence, Engineering Index, INSPEC & PASCAL/CNRS Database, Materials Science Citation Index, SSSA/CISA/ECA/ISMEC, etc. Also covered in the abstract and citation database Scopus®. Full text available on ScienceDirect®

CONTENTS

S. Soliman	927	Theoretical investigation of Cu-containing materials with different valence structure types: BaCu ₂ S ₂ , Li ₂ CuSb, and LiCuS
O. Ciftja	931	Finite clusters of fast-rotating spinless bosons in a harmonic trap
N. Bel Haj Mohamed, M. Haouari, Z. Zaaboub, F. Hassen, H. Maaref and H. Ben Ouada	936	Effect of surface on the optical structure and thermal properties of organically capped CdS nanoparticles
Y. Kohno, S. Asai, M. Shibata, C. Fukuhara, Y. Maeda, Y. Tomita and K. Kobayashi	945	Improved photostability of hydrophobic natural dye incorporated in organo-modified hydrotalcite
S. Miura, H. Sasaki, K.-i. Takagi and T. Fujima	951	Effect of varying mixture ratio of raw material powders on the thermoelectric properties of AlMgB ₁₄ -based materials prepared by spark plasma sintering
F. Suzuki, T. Honma and T. Komatsu	954	Unique crystal growth with crystal axis rotation in multi-ferroic β' -(Sm,Gd) ₂ (MoO ₄) ₃ narrow lines patterned by lasers in glass
Mohd. Shkir, H. Abbas, S. Kumar, G. Bhagavannarayana and S. AlFaify	959	Experimental and theoretical studies on bis(glycine) lithium nitrate (BGLiN): A physico-chemical approach
G. Levchenko, A. Khristov, V. Kuznetsova and V. Shelest	966	Pressure and temperature induced high spin–low spin phase transition: Macroscopic and microscopic consideration
H. Shibata, H. Hayashi, M. Akabori, Y. Arai and M. Kurata	972	Evaluation of Gibbs free energies of formation of Ce–Cd intermetallic compounds using electrochemical techniques
B. Liu, Z. Li, S. Xu, X. Ren, D. Han and D. Lu	977	Facile in situ hydrothermal synthesis of BiVO ₄ /MWCNT nanocomposites as high performance visible-light driven photocatalysts
M. Ioannou, G. S. Polymeris, E. Hatzikraniotis, K. M. Paraskevopoulos and Th. Kyriatsi	984	Effect of Bi-doping and Mg-excess on the thermoelectric properties of Mg ₂ Si materials
M. M. El-Desoky, M. S. Al-Assiri and A. A. Bahgat	992	Structural and thermoelectric power properties of Na-doped V ₂ O ₅ ·nH ₂ O nanocrystalline thin films
P. P. Mokoena, I. M. Nagpure, V. Kumar, R. E. Kroon, E. J. Olivier, J. H. Neethling, H. C. Swart and O. M. Ntwaeborwa	998	Enhanced UVB emission and analysis of chemical states of Ca ₅ (PO ₄) ₃ OH:Gd ³⁺ ,Pr ³⁺ phosphor prepared by co-precipitation
M. R. Gilbert	1004	Site selectivity of dopant cations in Ca ₃ (SiO ₄)Cl ₂

Available online at www.sciencedirect.com

ScienceDirect

