

774
S70/5c

Volume 166, 2013 ISSN 0038-1098

Published 8 July 2013



ELSEVIER

solid state communications

a condensed matter science journal

Submit On-line: www.elsevier.com/locate/ssc

CONTENTS

Fast-Track Communications

S. Barraza-Lopez, A.A. Pacheco Sanjuan, Z. Wang and M. Vanević

70 Strain-engineering of graphene's electronic structure beyond continuum elasticity

Communications

H. Zhao, X. Chen, J. Lu, H. Shu and W. Lu

1 Band gap tuning in HgTe through uniaxial strains

W. Wang and G. Zhao

6 First principles study of the electronic energy bands and state density of lithium-doped narrow armchair graphene nanoribbons

M.A. Makeev

12 Roughness corrections to the van der Waals interaction energies between bodies with periodically modulated surfaces

J.K. Park, K. Won Lee and C.E. Lee

16 Nuclear magnetic resonance study of the hydrogen-mediated ferromagnetic coupling in Mn-doped ZnO

C.L. Zhang, C. Zhu, H.F. Shi, J. Chen, T.Z. Wang, G.X. Xie and Z.D. Han

19 The magnetocaloric effect in Gd₃In_{1-x}Al_x (x=0, 0.04, 0.08) alloys

A.K. Ghosh, G.D. Dwivedi, B. Chatterjee, B. Rana, A. Barman, S. Chatterjee and H.D. Yang

22 Role of codoping on multiferroic properties at room temperature in BiFeO₃ ceramic

X.W. Sun, Y.D. Chu, J.H. Tian, T. Song, W.L. Quan and Q.F. Chen

27 Prediction of the pressure–volume–temperature equation of state for zinc-blende ZnO from quasi-harmonic Debye model

T.-L. Phan, T.D. Thanh, P. Zhang, D.S. Yang and S.C. Yu

32 The magnetic phase transition and magnetocaloric effect in Sm_{0.58}Sr_{0.42}MnO₃ nanoparticles

G.-H. Liu, W. Li, W.-L. You, G. Su and G.-S. Tian

38 Magnetization process and updated phase diagram of one-dimensional S=1 Ising model with single-ion anisotropy under magnetic field

A. Kadhim, A. Hmood and H. Abu Hassan

44 Thermoelectric generation device based on p-type Bi_{0.4}Sb_{1.6}Te₃ and n-type Bi₂Se_{0.6}Te_{2.4} bulk materials prepared by solid state microwave synthesis

R. Szczyński, E.A. Drzazga and A.M. Duda

50 The superconducting state in the B₂H₆ compound at 360 GPa

B. Jaleh and A. Omidvar Dezfuli

56 Pulse electrodeposition of Ni₂Sb nanowires in polycarbonate template

M. Ge, L. Zhang, J. Fan, C. Zhang, L. Pi, S. Tan and Y. Zhang

60 Critical behavior of the in-plane weak ferromagnet Sr₂IrO₄

S. Paul, A. Ghosh, P. Dudin, A. Barinov, A. Chakraborty, S. Ray, D.D. Sarma, S. Oishi and S. Raj

66 Photoelectron spectromicroscopy study of metal–insulator transition in Na_xWO₃

A. Bouibes, A. Zaoui and D. Tunega

76 Bonds, bands and elasticity of smithsonite rock

P.J. Monisha, S. Mukhopadhyay and A. Chatterjee

83 Exact distribution function of a one-dimensional Fröhlich–Toyoazawa–Luttinger liquid



0038-1098(201307)166:C;1-J



Available online at www.sciencedirect.com

SciVerse ScienceDirect

Indexed/abstracted in: Curr. Cont. Res. Alert, Cam. Sci. Abstr., Curr. Cont./Phy. Chem. & Earth Sci., Eng. Ind., INSPEC Data., PASCAL-CNRS Data., Curr. Cont. Sci. Cit. Ind., Curr. Cont. SCISEARCH Data., SSSA/CISA/ISMEC, Chemical Abstracts Service, MSCl
Also covered in the abstract and citation database SciVerse Scopus®
Full text available on SciVerse ScienceDirect®