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91. Fabrication of low cost integrated micro-capillary electrophoresis analytical chip for chemical analysis 623
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Pooja Sharma, D. Haranath, Harish Chander, Sukhvir Singh
Applied Surface Science 254 (2008) 4052–4055
104. Greenhouse gas emissions from municipal solid waste management in Indian mega-cities: A case study of Chennai landfill sites 691
Arvind K. Jha, C. Sharma, Nahar Singh, R. Ramesh, R. Purvaja, Prabhat K. Gupta
Chemosphere 71 (2008) 750–758
105. Growth and characterization of a new potential NLO material from the amino acid family—L-prolinium picrate 700
S.A. Martin Britto Dhas, **G. Bhagavannarayana**, S. Natarajan
Journal of Crystal Growth 310 (2008) 3535– 3539
106. Growth And Characterization Of Glycine Hydrobromide Single Crystal For Nonlinear Optical Applications 705
K. Kirubavathi And K. Selvaraju, **N. Vijayan**, S. Kumararaman
Modern Physics Letters B, Vol. 22, No. 21 (2008) 2035–2042
107. Growth and characterization of KDP crystals with potassium carbonate as additive 713
P.V. Dhanaraj, C.K. Mahadevan, **G. Bhagavannarayana**, P. Ramasamy, N.P. Rajesh
Journal of Crystal Growth 310 (2008) 5341–5346

CONTENTS

-
108. Growth and characterization studies on glycine barium dichloride single crystals for NLO applications 719
J. Thomas Joseph Prakash , **N. Vijayan**, S. Kumararaman
Spectrochimica Acta Part A 71 (2008) 1250–1252
109. Growth by SR method and characterization of bis(thiourea)zinc(II) chloride single crystals 722
S.K. Kushwaha, N. Vijayan, G. Bhagavannarayana
Materials Letters 62 (2008) 3931–3933
110. Growth by SR method and characterization of hippuric acid single crystals 725
N. Vijayan , G. Bhagavannarayana , Alex M.Z. Slawin
Materials Letters 62 (2008) 2480 – 2482
111. Growth of carbon nanotubes on carbon fibre substrates to produce hybrid/phenolic composites with improved mechanical properties 728
R.B. Mathur , Sourav Chatterjee, **B.P. Singh**
Composites Science and Technology 68 (2008) 1608–1615
112. Growth of tetrakis thiourea potassium iodide as new second order optical material 736
J. Thomas Joseph Prakash, **N. Vijayan**, and S. Kumararaman
Cryst. Res. Technol. 43, No. 4, 423 – 427 (2008)
113. Growth of unidirectional potassium dihydrogen orthophosphate single crystal by SR method and its characterization 741
S. Balamurugan , **G. Bhagavannarayana** , P. Ramasamy
Materials Letters 62 (2008) 3963–3965
114. Growth, microstructure, UV and orange pink emission from ZnO nanocones 744
Santa Chawla Ā, K. Jayanthi, Sukhvir Singh, Harish Chander
Journal of Crystal Growth 310 (2008) 3517– 3521
115. Growth, structural, optical, thermal and mechanical properties of ammonium pentaborate single crystal 749
T. Balakrishnan , **G. Bhagavannarayana** , K. Ramamurthi
Spectrochimica Acta Part A 71 (2008) 578–583
116. H NMR and spectroscopic studies of biologically active yttrium (III)- flavonoid complexes 756
Anees A. Ansari
Main Group Chemistry Vol. 7, No. 2, June 2008, 133–145
117. H NMR, spectroscopic and molecular modeling studies on paramagnetic lanthanide(III)-quercetin complexes 770
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Main Group Chemistry Vol. 7, No. 1, March 2008, 15 – 30
118. H-1 Nmr, Spectroscopic Studies Of Biologically Active Yttrium (Iii)-Flavonoid Complexes 787
Ansari, AA, Sharma, RK, Singh, N, Singh, SP
REVIEWS IN INORGANIC CHEMISTRY 28(3) JUL-SEP 2008

CONTENTS

-
119. High field performance of nanodiamond doped MgB₂ superconductor 806
Arpita Vajpayee, V. P. S. Awana, H. Kishan, A. V. Narlikar, G. L. Bhalla, X. L. Wang
Journal Of Applied Physics 103, 07C708 2008
120. High Pressure Growth of Nanocrystalline Silicon Films 809
Sushil Kumar, Jhuma Gope, Aravind Kumar, A. Parashar, C. M. S. Rauthan, P. N. Dixit
Journal of Nanoscience and Nanotechnology Vol. 8, 4211–4217, 2008
121. High Pressure Plasma Treatment for Controlling the Surface Activity and Optical Properties of TiO₂ Nanoparticles 816
Jin Jun, **Marshal Dhayal**, Bo-Hye Kim, and Hee-Gweon Woo
Journal of Nanoscience and Nanotechnology Vol. 8, 1-6, 2008
122. High Resolution Ultrasonic Attenuation Measurement in Pulse-echo Setup 822
P.K. Dubey, S. Rajagopalan, V.R. Vyaghra, V.M. Pendsey, S.J. Sharma
MAPAN-Journal of Metrology Society of India, Vol. 23, No. 4, 2008; pp.245-252
123. High temperature superstructural phases of the Sb/Si (5 5 12) interface 830
Govind Mahesh Kumar, Vinod Kumar Paliwal, S.M. Shivaprasad
Vacuum 82 (2008) 1452–1456
124. High yield synthesis and characterization of graphitic carbon nanofibers by spray pyrolysis 835
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New Carbon Materials Volume 23, Issue 2, March 2008
125. Highly sensitive NH₃ sensor using Pt catalyzed silica coating over WO₃ thick films 840
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Sensors and Actuators B 133 (2008) 46–52
126. High-pressure condition of SiH₄+Ar+H₂ plasma for deposition of hydrogenated nanocrystalline silicon film 847
A. Parashar, Sushil Kumar, P.N. Dixit, Jhuma Gope, C.M.S. Rauthan, S.A. Hashmi
Solar Energy Materials & Solar Cells 92 (2008) 1199– 1204
127. High-pressure Synthesis and Physical Characterization of Y-based 1222-type Niobio–Cuprate NbSr₂(Y_{1.5} Ce_{0.5})Cu₂O₁₀ 853
S. Balamurugan, A. Ubaldini, E. Takayama-Muromachi, **V.P.S. Awana**
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128. Humidity response of Li-substituted magnesium ferrite 858
R.K. Kotnala, Jyoti Shah, Bhikham Singh, Hari kishan, Sukhvir Singh, S.K. Dhawan, A.Sengupta
Sensors and Actuators B 129 (2008) 909–914
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J Supercond Nov Magn (2008) 21: 151–159
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Journal of Luminescence 128 (2008) 525–530

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-
131. Improved dielectric and ferromagnetic properties in Fe-doped PbTiO₃ nanoparticles at room temperature 879
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APPLIED PHYSICS LETTERS 92, 152902 2008
132. Improved electrochemical nucleic acid biosensor based on polyaniline-polyvinyl sulphonate 882
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Electrochimica Acta 53 (2008) 4344–4350
133. Influence of cerium on the texture and ductility of magnesium extrusions 889
Raja K. Mishra, **Anil K. Gupta**, P. Rama Rao, Anil K. Sachdev, Arun M. Kumar, Alan A. Luo
Scripta Materialia 59 (2008) 562–565
134. Influence of inorganic and organic additives on the crystal growth, properties and crystalline perfection of tris(thiourea) copper(I) chloride (TCC) crystals 893
G. Bhagavannarayana, **S.K. Kushwaha**, S. Parthiban, G. Ajitha, Subbiah Meenakshisundaram
Journal of Crystal Growth 310 (2008) 2575–2583
135. Influence of polyethylene glycol template on microstructure and electrochromic properties of tungsten oxide 902
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Solar Energy Materials & Solar Cells 92 (2008) 170–178
136. Influence of Surface Modified MWCNTs on the Mechanical, Electrical and Thermal Properties of Polyimide Nanocomposites 911
B. P. Singh, Deepankar Singh, **R. B. Mathur**, **T. L. Dhami**
Nanoscale Res Lett (2008) 3:444–453
137. Information exchange in free space using spectral switching of diffracted polychromatic light: possibilities and limitations 921
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J. Opt. Soc. Am. A / Vol. 25, No. 12 / December 2008
138. In-Situ Transmission Electron Microscopy Investigation of Aluminum Induced Crystallization of Amorphous Silicon 929
Ram Kishore, Renu Sharma, Satoshi Hata, Noriyuki Kuwano, Yoshitsuga Tomokiyo, Hameed Naseem, W D Brown
Amorphous And Polycrystalline Thin Film Silicon Science And Technology 2008 Book Series: Materials Research Society Symposium Proceedings 1066 Pages: 345 351 2008
139. Inventory Of Green House Gases And Other Pollutants From The Transport Sector: Delhi 936
C. Sharma, **R. Pundir**
Iran. J. Environ. Health. Sci. Eng., 2008, Vol. 5, No. 2, pp. 117-124
140. Investigations on the nucleation kinetics of bis glycine sodium nitrate 944
K. Selvaraju, K. Kirubavathi, **N. Vijayan**, S. Kumararaman
Journal of Crystal Growth 310 (2008) 2859–2862

CONTENTS

141. Investigations on the nucleation kinetics of methyl-para-hydroxy benzoate single crystals 948
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142. Ionospheric modeling for short- and long-term predictions of F region parameters over Indian zone 951
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JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 113, A03306, 2008
143. Ionospheric precursors observed at low latitudes around the time of koyna earthquake 961
Kavita Sharma, Rupesh M. Das, R.S. Dabas, K.G.M. Pillai, S.C. Garg, A.K. Mishra
Advances in Space Research 42 (2008) 1238–1245
144. Iron oxide nanoparticles–chitosan composite based glucose biosensor 969
Ajeet Kaushik, Raju Khan, Pratima R. Solanki, Pratibha Pandey, Javed Alam, Sharif Ahmad, B.D. Malhotra
Biosensors and Bioelectronics 24 (2008) 676–683
145. Kinetics of transient electroluminescence in organic light emitting diodes 977
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J. Phys. D: Appl. Phys. 41 (2008) 165101 (5pp)
146. Lattice vibrational properties of some rare-earth antimonides: Raman scattering measurements and model theory 982
B. Rakshit, V. Srivastava, S. P. Sanyal, **N. Dilawar, D. Varandani, A. K. Bandyopadhyay**
JOPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS Vol. 2, No. 1, January 2008, p. 37 - 41
147. Low field magnetotransport in manganites 987
P K Siwach, H K Singh and O N Srivastava
J. Phys.: Condens. Matter 20 (2008) 273201 (43pp)
148. Low-pressure Chemical Vapour Deposition of Silicon Nanoparticles: Synthesis and Characterisation 1030
A. Kumar, Pankaj B. Agarwal, Sachin Kumar, B.C. Joshi, A.K. Sharma, **H. Chander**
Defence Science Journal, Vol. 58, No. 4, July 2008, pp. 550-558
149. Magneto-transport and thermal properties of Pr₂/3Ba₁/3(Mn_{1-x}Sbx)O₃ system 1039
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J. Phys. D: Appl. Phys. 41 (2008) 105004 (6pp)
150. Magnetotransport and thermoelectric power of La₂/3Ba₁/3Mn_{1-x}Sbx O₃ (x = 0–0.05) manganite perovskites 1045
Vikram Sen, Neeraj Panwar, Ashok Rao, C.K. Hsu, Y.K. Kuo, **S.K. Agarwal**
Solid State Communications 145 (2008) 86–90
151. Magnetotransport in La_{0.7}Ca_{0.3}MnO₃–PMMA composites synthesized by polymeric precursor route 1050
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Journal of Alloys and Compounds 455 (2008) 289–294

CONTENTS

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JOURNAL OF APPLIED PHYSICS 104, 083906 2008
153. Measurement of CO₂, CO, SO₂, and NO emissions from coal-based thermal power plants in India 1062
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Atmospheric Environment 42 (2008) 1073–1082
154. Measurement of column ozone, water vapour over Indian Ocean 1072
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Indian Journal of Marine Sciences Vol. 37(1), March 2008, pp. 99-103
155. Measurements of surface ozone at semi-arid site Anantapur (14.62°N, 77.65°E, 331 m asl) in India 1074
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J Atmos Chem (2008) 59:47–59
156. Memory effect in weakly anchored surfaces of deformed helix ferroelectric liquid crystals 1087
J. Prakash, A. Choudhary, S. Kaur, D. S. Mehta, and **A. M. Biradar**
PHYSICAL REVIEW E 78, 021707 2008
157. Memory effect near transition temperature in Sm C₊ phase in nonsurface stabilized ferroelectric liquid crystals 1093
I. Coondoo, A. Malik, A. Choudhary, A. Kumar, and **A. M. Biradar**
JOURNAL OF APPLIED PHYSICS 104, 083525 2008
158. Methane Emission From Two Different Rice Ecosystems (Ahu And Sali) At Lower Brahmaputra Valley Zone Of North East India 1098
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Applied Ecology And Environmental Research 6(3): 99-112
159. Microstructural and electrochromic properties of tungsten oxide thin films produced by surfactant mediated electrodeposition 1112
M. Deepa , A.K. Srivastava, S.N. Sharma, Govind, S.M. Shivaprasad
Applied Surface Science 254 (2008) 2342–2352
160. Microstructural features and mechanical properties of carbon nanotubes reinforced aluminum-based metal matrix composites 1123
A K Srivastava, C L Xu, B Q Wei, **R Kishore & K N Sood**
Indian Journal of Engineering & Materials Sciences Vol. 15, June 2008, pp. 247-255
161. Microstructural, photocatalysis and electrochemical investigations on CeTi₂O₆ thin films 1127
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Thin Solid Films 516 (2008) 4925 – 4933
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APPLIED PHYSICS LETTERS 93, 053114 2008

CONTENTS

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Carbohydrate Polymers 74 (2008) 427–434
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MAPAN - Journal of Metrology Society India, Vol. 23, No. 1, 2008; pp. 21-24
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Physica B 403 (2008) 3316– 3319
166. Morphological Observation of Y and T Junctions in Nanostructured Boron Nitride Thin Films 1155
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Journal of Nanoscience and Nanotechnology Vol. 8, 3526–3531, 2008
167. Multiple Magnetic Ordering Temperatures in RuSr₂ Eu_{1.5} Ce_{0.5} Cu₂ O_{10-δ} System 1161
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J Supercond Nov Magn (2008) 21: 39–44
169. Nanocomposite Polymer Electrolytes by In situ Polymerization of Methyl Methacrylate: For Electrochemical Applications 1173
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Journal of Applied Polymer Science Vol. 107, 3042–3048 (2008)
170. Nanocrystalline bioactive TiO₂–chitosan impedimetric for ochratoxin-A 1180
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Electrochemistry Communications 10 (2008) 492–495
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Journal of The Electrochemical Society, 155 11 D703-D710 2008
172. **NANOSTRUCTURES IN THIN FILMS OF ZnO** 1192
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TMS 2008 ANNUAL MEETING SUPPLEMENTAL PROCEEDINGS, VOL 1: MATERIALS PROCESSING AND PROPERTIES
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MAPAN - Journal of Metrology Society of India, Vol. 23, No. 3, 2008; pp. 177-192

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-
174. Neutron diffraction study of the magnetic structure of the superconducting Ru-1222-type ruthenocuprate $\text{RuSr}_2\text{Y}_{1.5}\text{Ce}_{0.5}\text{Cu}_2\text{O}_{10-x}$: Evidence for long-range antiferromagnetic order 1214
Mclaughlin AC, Felner I, **Awana VPS**
PHYSICAL REVIEW B 78, 094501 2008
175. New approach for the measurement of glass transition temperature of polymer 1219
M S Gaur, Prashant Shukla, R K Tiwari, Anju Tanwar & **S P Singh**
Indian Journal of Pure & Applied Physics Vol. 46, August 2008, pp. 535-539
176. New approaches in order to enlarge the grain size of bulk CdZnTe (CZT) crystals 1224
V. Carcelén, **N. Vijayan**, E. Diéguez, A. Zappettini, M. Zha, L. Sylla, A. Fauler, M. Fiederle
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Vol. 10, No. 11, November 2008, p. 3135 - 3140
177. Nonlinear magnetic response in ruthenocuprates 1230
I. Zivkovic , **V.P.S. Awana** , and H. Berger
Eur. Phys. J. B 62, 423–431 (2008)
178. Nonvolatile memory effect based on gold nanoparticles doped ferroelectric liquid crystal 1239
J. Prakash, A. Choudhary, A. Kumar, D. S. Mehta and **A. M. Biradar**
APPLIED PHYSICS LETTERS 93, 112904 2008
179. Novel growth morphologies of nano- and micro-structured cadmium oxide 1242
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Materials Letters 62 (2008) 727 – 730
180. Nucleic acid immobilized polypyrrole–polyvinylsulphonate film for Mycobacterium tuberculosis detection 1246
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Electrochemistry Communications 10 (2008) 821–826
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Electrochemistry Communications 10 (2008) 1214
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J. Mol. Recognit. 2008; 21: 217–223
183. Nucleic acid sensor for M. tuberculosis detection based on surface plasmon resonance 1260
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Analyst, 2008, 133, 1587–1592
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International Journal of Remote Sensing Vol. 29, No. 20, 20 October 2008, 5907–5921
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T. Kanagasekaran, P. Mythili, P. Srinivasan, **N. Vijayan**, D. Kanjilal, R. Gopalakrishnan, P. Ramasamy
Materials Research Bulletin 43 (2008) 852–863
187. One-Step Atmospheric Pressure Synthesis of the Ground State of Fe Based LaFeAsO_{1-δ} 1298
V.P.S. Awana, Arpita Vajpayee, Monika Mudgel, Anuj Kumar, R.S. Meena, Rahul Tripathi, Shiva Kumar, R.K. Kotnala, Hari Kishan
J Supercond Nov Magn (2008) 21: 167–169
188. Optical and Electron Spectroscopy Study of Initial Stages of Room-Temperature Mg Film Growth on Si (111) 1301
K. N. Galkin, S. A. Dotsenko, N. G. Galkin, **M. Kumar, Govind, and S. M. Shivaprasad**
Semiconductors, 2008, Vol. 42, No. 4, pp. 475–480
189. Optical manipulation of airborne particles: techniques and applications 1307
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Faraday Discuss., 2008, 137, 335–350
190. Optical properties of pyridine functionalized TbF₃ nanoparticles 1323
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J Nanopart Res (2008) 10:703–707
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Indian Journal of Engineering & Materials Sciences Vol. 15, June 2008, pp. 265-274
192. Optical, dielectric and surface studies on solution grown benzimidazole single crystals 1333
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193. Oxygen intake in ion irradiated fullerene films 1336
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Nuclear Instruments and Methods in Physics Research B 266 (2008) 1709–1712
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J Atmos Chem (2008) 60:237–252

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-
195. *Permeability of Nb and Ta doped lithium ferrite in high frequency range* 1357
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Journal of Nanoscience and Nanotechnology Vol. 8, 5252–5256, 2008
197. *Permeability of Nb and Ta doped lithium ferrite in high frequency range* 1372
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198. *Phenomenological model of anomalously high photovoltages generated in obliquely deposited semiconductor films* 1377
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199. *Photodegradation of dye pollutant under UV light by nano-catalyst doped titania thin films* 1389
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Applied Catalysis B: Environmental 84 (2008) 233–240
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MAPAN - Journal of Metrology Society of India, Vol. 23, No. 4, 2008; pp. 231-235
201. *Physical property characterization of bulk MgB₂ superconductor* 1402
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Eur. Phys. J. B 62, 281–294 (2008)
202. *Physico-chemical characterization of a polycarbonate (PC) surface modified by exposure to dc glow discharge in air* 1416
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J. Phys. D: Appl. Phys. 41 (2008) 135305 (8pp)
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O S Panwar, Mohd Alim Khan, P N Dixit, B S Satyanarayana, R Bhattacharyya, Sushil Kumar & C M S Rauthan
Indian Journal of Pure & Applied Physics Vol. 46, April 2008, pp. 255-260
204. *Poly(3,4-ethylenedioxythiophene) (PEDOT)- Coated MWCNTs Tethered to Conducting Substrates: Facile Electrochemistry and Enhanced Coloring Efficiency* 1427
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Macromol. Rapid Commun. 2008, 29, 1959–1964
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Macromol. Rapid Commun. 2008, 29, 1959–1964

CONTENTS

-
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J. Phys. Chem. B 2008, 112, 4808-4816
207. Polyaniline–carbon nanotube composite film for cholesterol biosensor 1450
Chetna Dhand, Sunil K. Arya, Monika Datta and B.D. Malhotra
Analytical Biochemistry 383 (2008) 194–199
208. Polypyrrole films electropolymerized from ionic liquids and in a traditional liquid electrolyte: A comparison of morphology and electro–optical properties 1456
M. Deepa, Shahzada Ahmad
European Polymer Journal 44 (2008) 3288–3299
209. Polythiophene Gold Nanoparticles Composite Film for Application to Glucose Sensor 1468
Pratibha Pandey, Sunil K. Arya, Zimple Matharu, S. P. Singh, Monika Datta, B. D. Malhotra
Journal of Applied Polymer Science, Vol. 110, 988–994 (2008)
210. Preface : Davis, Richard S. and Tripurari Lal 1476
[Editorial]
MAPAN - Journal of Metrology Society of India, Vol. 23, No. 3, 2008; p. 128
211. Preparation of large surface area rutile titania crystals at room temperature by PECVD with applied d.c. bias 1477
K.M.K. Srivatsa , Mrinmoyee Bera, A. Basu
Materials Letters 62 (2008) 3527–3529
212. Preparation of polyaniline/multiwalled carbon nanotube composite by novel electrophoretic route 1480
Chetna Dhand, Sunil K. Arya, Surinder Pal Singh, Bhanu Pratap Singh, Monika Datta, B.D. Malhotra,
CARBON 46 (2008) 1727–1735
213. Proficiency Testing for Surface Roughness Standard and Groove Depth Standard 1489
ARIF SANJID M., K P. CHUADHARY and R.P. SINGHAL
MAPAN - Journal of Metrology Society of India, Vol. 23, No. 1, 2008; pp. 11-20
214. Prospects of Nanomaterials in Biosensors 1500
Pratibha Pandey, Monika Datta and B. D. Malhotra
Analytical Letters, 41: 159–209, 2008
215. Pure brookite titania crystals with large surface area deposited by Plasma Enhanced Chemical Vapour Deposition technique 1551
K.M.K. Srivatsa, Mrinmoyee Bera, A. Basu
Thin Solid Films 516 (2008) 7443 – 7446
216. Quantification of the mixing effect in silicon–manganese thin films by swift heavy ion irradiation 1555
K Diva, B R Chakraborty, R S Chauhan, J C Pivin and D K Avasthi
J. Phys. D: Appl. Phys. 41 (2008) 185305 (5pp)

CONTENTS

-
217. Quick and reliable estimation of BOD load of beverage industrial wastewater by developing BOD biosensor 1560
 Purnima Dhall, Anil Kumar, Abha Joshi, **Tushya Kumar Saxsena**, Angamuthu Manoharan, Santosh Dayal Makhijani, Rita Kumar
Sensors and Actuators B 133 (2008) 478–483
218. Radiation effects in natural quartz crystals 1566
Harish Bahadur , Helene Tissoux , Teruo Usami, Shin Toyoda
J Mater Sci: Mater Electron (2008) 19:709–713
219. Radiation Effects On Premium Q and Supreme Q Cultured Quartz Crystals 1571
Harish Bahadur, Kiyotaka Ninagawa, Hirotsugu Nishido, Teruo Usami, Masahiro Kayama, Shin Toyoda
2008 IEEE INTERNATIONAL FREQUENCY CONTROL SYMPOSIUM, VOLS 1 AND 2 213-218
220. Recent advances in cholesterol biosensor 1577
Sunil K. Arya, Monika Datta, **Bansi D. Malhotra**
Biosensors and Bioelectronics 23 (2008) 1083–1100
221. Redox behavior and optical response of nanostructured poly(3,4- ethylenedioxythiophene) films grown in a camphorsulfonic acid based micellar solution 1595
Shweta Bhandari, M. Deepa, S. Singh , Govind Gupta, Rama Kant
Electrochimica Acta 53 (2008) 3189–3199
222. Reduction of artifacts in 12-channel ECG signals using FastICA algorithm 1606
 Gracee Agrawal, **Manju Singh, V R Singh and H R Singh**
Journal of Scientific & Industrial Research Vol. 67, January 2008, pp.43-48
223. Re-establishment of National Standards of Mass at NPL India 1609
TRIPURARI LAL, GOUTAM MANDAL and C.K. GOPAN
MAPAN-Journal of Metrology Society of India, Vol. 23, No. 3, 2008; pp.139-158
224. Resistivity dependent dielectric and magnetic properties of Pb_{0.98}Fe_{0.012}Ti_{0.988}O₃ nanoparticles 1629
 K. C. Verma, **R. K. Kotnala**, N. Thakur, V. S. Rangra, and N. S. Negi
JOURNAL OF APPLIED PHYSICS 104, 093908 2008
225. Role of Fe, Mn, and Zn ions as dopants on the electrical conductivity behavior of sodium phosphate glass 1634
 S. S. Das & N. P. Singh & Vibha Srivastava & **P. K. Srivastava**
Ionics (2008) 14:563–568
226. Role of Ni doping in surface carbon removal and photo catalytic activity of nano-structured TiO₂ film 1640
Marshal Dhayal , S.D. Sharma, Chander Kant, K.K. Saini, S.C. Jain
Surface Science 602 (2008) 1149–1154
227. S180 cell growth on low ion energy plasma treated TiO₂ thin films 1646
Marshal Dhayal , Su-In Cho , Jun Young Moon, Su-Jin Cho, Anna Zykova
Applied Surface Science 254 (2008) 3331–3338

CONTENTS

228. Search for room temperature high-TCR manganite/silver composites 1654
Rahul Tripathi, V.P.S. Awana , H. Kishan, G.L. Bhalla
Journal of Magnetism and Magnetic Materials 320 (2008) L89–L92
229. Selection of rice genotypes for lower methane emission 1658
Nirmali Gogoi, K.K. Baruah, **Prabhat K. Gupta**
Agron. Sustain. Dev. 28 (2008) 181–186
230. Selective masking and demasking for the stepwise complexometric determination of aluminium, lead and zinc from the same solution 1664
Nijhuma Kayal and **Nahar Singh**
Chemistry Central Journal 2008, 2:4
231. Self-assembled monolayer for low density lipoprotein detection 1669
Zimpe Matharu, Sunil K. Arya, G. Sumana, Vinay Gupta and B. D. Malhotra
J. Mol. Recognit. 2008; 21: 419–424
232. Self-assembled monolayer for toxicant detection using nucleic acid sensor based on surface plasmon resonance technique 1675
Pratima R. Solanki & Nirmal Prabhakar & M. K. Pandey & B. D. Malhotra
Biomed Microdevices (2008) 10:757–767
233. Significant improvement of flux pinning and irreversibility field in nano-carbon-doped MgB₂ superconductor 1686
Monika Mudgel , V.P.S. Awana , H. Kishan , G.L. Bhalla
Solid State Communications 146 (2008) 330–334
234. Size dependence of core and valence binding energies in Pd nanoparticles: Interplay of quantum confinement and coordination reduction 1691
Aruna, B. R. Mehhta, L. K. Malhotra, and **S. M. Shivaprasad**
JOURNAL OF APPLIED PHYSICS 104, 064308 2008
235. Size-induced effect on nano-crystalline CoFe₂O₄ 1696
Vinod Kumar, Anu Rana, M.S. Yadav, R.P. Pant
Journal of Magnetism and Magnetic Materials 320 (2008) 1729–1734
236. Sol-gel derived nanoporous cerium oxide film for application to cholesterol biosensor 1702
Anees A. Ansari, A. Kaushik, P.R. Solanki, B.D. Malhotra
Electrochemistry Communications 10 (2008) 1246–1249
237. Sol-gel derived nanostructured cerium oxide film for glucose sensor 1706
Anees A. Ansari, Pratima R. Solanki, and B. D. Malhotra
APPLIED PHYSICS LETTERS 92, 263901 2008
238. Structural and microhardness studies of pure and thiourea doped glycine phosphite single crystal 1709
R. Ezhil Vizhi, S. Kalainathan and **G. Baghavan Narayana**
Cryst. Res. Technol. 43, No. 7, 778 – 782 (2008)
239. Structure and luminescence of (Zn,Mg)O:Zn²⁺ nanophosphor films 1714
D. Haranath , Harish Chander, K. Jayanthi
Materials Letters 62 (2008) 374 – 376

CONTENTS

240. Studies of interaction of amines with TOPO/TOP capped CdSe quantum dots: Role of crystallite size and oxidation potential 1717
Shailesh N. Sharma , Himani Sharma , Gurmeet Singh , S.M. Shivaprasad
Materials Chemistry and Physics 110 (2008) 471–480
241. Studies on the growth aspects of semi-organic cadmium zinc thiourea acetate: A promising new NLO crystal 1727
K. Kirubavathi, K. Selvaraju, R. Valluvan, **N. Vijayan**, S. Kumararaman
Materials Letters 62 (2008) 7 – 10
242. Study of crystalline perfection and thermal analysis of zinc cadmium thiocyanate single crystals grown in silica gel 1731
P. Nisha Santha Kumari, S. Kalainathan, and **G. Bhagavannarayana**
Cryst. Res. Technol. 43, No. 3, 276 – 281 (2008)
243. Study of electric and magnetic properties of „Bi_{0.9}Pb_{0.1}... „Fe_{0.9}Ti_{0.1}...O₃ nanomultiferroic system 1737
K. Singh, **R. K. Kotnala** and M. Singh
APPLIED PHYSICS LETTERS 93, 212902 2008
244. **STUDY OF GALL BLADDER STONES AS A NEW PIEZOELECTRIC SENSOR MATERIAL** 1740
V.R.Singh
2008 - IEEE International Workshop on Medical Measurements and Applications
245. Study of high-pressure-induced phase transition in nanocrystalline perovskite (LaSr)(MnFe)O₃ by Raman spectroscopy 1742
Nita Dilawar, Usha Chandra, G. Parthasarathy and **A. K. Bandyopadhyay**
J. Raman Spectrosc. 2008; 39: 1765–1771
246. Study of the Long Term Performance on the Calibration Data of the Coaxial Thermistor Mounts up to 18 GHz 1749
Saood Ahmad, V.K. Rustagi, A.K. Govil, R. Aggarwal, Bijendra Pal And P.C. Kothari
MAPAN-Journal of Metrology Society of India, Vol. 23, No. 2, 2008; pp.71-78
247. Study of ZnO and Ni-doped ZnO synthesized by atom beam sputtering technique 1757
S. ghosh, P. Srivastava, B. Pandey, M. Saurav, P. Bharadwaj , D.K. Avasthi, D. Kabiraj,
S.M. Shivaprasad
Appl. Phys. A 90, 765–769 (2008)
248. Superconducting transition temperature of co-doped Y_{0.95}Pr_{0.05}Ba₂(Cu_{1-x}Mn_x)₃O_{7-δ} superconductors for x ≤ 0.02 1762
Bhasker Gahtori, R Lal, S K Agarwal, Anirban Das, Tirthankar Chakraborty, Ashok Rao
Indian Journal of Pure & Applied Physics Vol. 46, August 2008, pp. 575-579
249. Superconductivity of Nb_{1-x}Mg_xB₂ : Impact of Stretched c-Parameter 1764
Monika Mudgel , V.P.S. Awana, G.L. Bhalla, **H. Kishan**
J Supercond Nov Magn (2008) 21: 457–460
250. Superconductivity of non-stoichiometric intermetallic compound NbB₂ 1768
Monika Mudgel , V.P.S. Awana , G.L. Bhalla , H. Kishan
Solid State Communications 147 (2008) 439–442

CONTENTS

-
251. Superconductivity of the bulk MgB₂ + nano(n)-SiC composite system: a high field magnetization study 1772
Arpita Vajpayee, V P S Awana, G L Bhalla and H Kishan
Nanotechnology 19 (2008) 125708 (7pp)
252. Surface chemistry and catalytic activity of Ni/Al₂O₃ irradiated with high-energy electron beam 1779
Jin Jun , **Marshal Dhayal** , Joong-Hyeok Shin , Young Hwan Han, Nikola Getoff
Applied Surface Science 254 (2008) 4557–4564
253. Synthesis and Characterization of Biopolymer-Based Electrical Conducting Graft Copolymers 1787
Ashutosh Tiwari, S. P. Singh
Journal of Applied Polymer Science, Vol. 108, 1169–1177 (2008)
254. Synthesis and characterization of boron nitride nanotubes using a simple chemical method 1796
S K Singhal, A K Srivastava, B P Singh & Anil K Gupta
Indian Journal of Engineering & Materials Sciences Vol. 15, October 2008, pp. 419-424
255. Synthesis and characterization of cadmium doped lithium ferrite by sol-gel technique 1799
Verma, V; Pandey, V; Aloyslus, RP; Awana, VPS; Kotnala, RK; Kothari, PC
Magnetic Materials 1003 133-135 2008
256. Synthesis and characterization of e-Fe₃N/GaN, 54/46-composite nanowires 1802
N.S. Gajbhiye ,Sayan Bhattacharyya , **S.M. Shivaprasad**
Materials Research Bulletin 43 (2008) 272–283
257. Synthesis and characterization of pH switching electrical conducting biopolymer hybrids for sensor applications 1814
Ashutosh Tiwari
J Polym Res (2008) 15:337–342
258. Synthesis and Characterization of Processable Polyaniline Doped with Novel Dopant NaSIPA 1820
Parveen Saini, Rajesh Jalan, S. K. Dhawan
Journal of Applied Polymer Science, Vol. 108, 1437–1446 (2008)
259. Synthesis and characterization of some 5-coordinated aluminum-8-Hydroxyquinoline derivatives for OLED applications 1830
Pankaj Kumar, Aparna Misra, Ramil Bhardwaj, M.N. Kamalasanan, S.C. Jain, Suresh Chand, R.P. Tandon
Displays 29 (2008) 351–357
260. Synthesis and electroluminescence properties of zinc(2,2' bipyridine)8-hydroxyquinoline 1837
Virendra Kumar Rai, Ritu Srivastava, Gayatri Chauhan, Kanchan Saxena, Ramil Kumar Bhardwaj, Suresh Chand, M.N. Kamalasanan
Materials Letters 62 (2008) 2561 – 2563

CONTENTS

261. Synthesis and magnetotransport properties of Mm-doped La_{0.7}Ca_{0.3}MnO₃ 1840
Pankaj Srivastava, O.N. Srivastava, **H.K. Singh**, P.K. Siwach
Journal of Alloys and Compounds 459 (2008) 61–65
262. Synthesis and optical properties of ZnO/MgO nanocomposite 1845
Santa Chawla, K. Jayanthi, Harish Chander, D. Haranath, S.K. Halder, M. Kar
Journal of Alloys and Compounds 459 (2008) 457–460
263. Synthesis growth and characterization of l-Valinium Picrate a new nonlinear optical crystal 1849
K. Kirubavathi , K. Selvaraju , **N. Vijayan** , S. Kumararaman
Spectrochimica Acta Part A 71 (2008) 288–291
264. Synthesis of boron nitride nanotubes employing mechanochemical process and its characterization 1853
S. K. Singhal, A. K. Srivastava, R. P. Pant, S. K. Halder, B. P. Singh, Anil K. Gupta
J Mater Sci (2008) 43:5243–5250
265. Synthesis, characterization, and hopping transport properties of HCl doped conducting biopolymer-co-
polyaniline zwitterion hybrids 1861
A. Tiwari, V. Sen, S. R. Dhakate, A. P. Mishra and V. Singh
Polym. Adv. Technol. 2008; 19: 909–914
266. Synthesis, crystal growth and characterization of organic material: N-Bromosuccinimide (NBS) for
NLO applications 1867
T. Kanagasekaran, P. Mythili, P. Srinivasan, **Shailesh N. Sharma**, R. Gopalakrishnan
Materials Letters 62 (2008) 2486 – 2489
267. Synthesis, crystal growth, structural, optical, thermal and mechanical properties of novel organic NLO 1871
material: Ammonium malate
G. Anandha babu, **G. Bhagavannarayana**, P. Ramasamy
Journal of Crystal Growth 310 (2008) 1228–1238
268. Synthesis, electrical conduction and structure–property correlation in (50 – x) Ag₂O–50P₂O₅–xCoCl₂ 1882
glassy systems
S.S. Das, N.P. Singh, **Vibha Srivastava**, P.K. Srivastava
Solid State Ionics 179 (2008) 2325–2329
269. Synthesis, growth and characterization analysis of nickel mercury thiocyanate crystal (NMTC) 1887
C. Ramachandra Raja, B. Vijayabhaskaran , **N. Vijayan**, P. Paramasivam
Materials Letters 62 (2008) 2737 – 2739
270. Synthesis, growth and characterization of a new nonlinear optical material: 1890
4-Phenylpyridinium hydrogen squarate (4PHS)
C. Ramachandra Raja , P. Paramasivam , **N. Vijayan**
Spectrochimica Acta Part A 69 (2008) 1146–1149
271. Synthesis, Growth, and Characterization of Novel Nonlinear Optical Active Dichloridodiglycine Zinc 1894
Dihydrate Single Crystals
S. Mary Navis Priya, B. Varghese, J. Mary Linet, **G. Bhagavannarayana**, Justin Raj,
S. Krishnan, S. Dinakaran, and S. Jerome Das
Crystal Growth & Design, Vol. 8, No. 5, 2008

CONTENTS

-
272. Synthesis, growth, structural, spectroscopic and optical studies of a new semiorganic nonlinear optical crystal:L-Valine hydrochloride 1900
K. Kirubavathi, K. Selvaraju, R. Valluvan, **N. Vijayan**, S. Kumararaman
Spectrochimica Acta Part A 69 (2008) 1283–1286
273. Synthesis, growth, thermal, optical, dielectric and mechanical properties of semi-organic NLO crystal: Potassium hydrogen malate monohydrate 1904
G. Anandha babu, **G. Bhagavannarayana**, P. Ramasamy
Journal of Crystal Growth 310 (2008) 2820–2826
274. Temperature dependence of I–V characteristics and performance parameters of silicon solar cell 1911
Priyanka Singh, S.N. Singh, M. Lal, M. Husain
Solar Energy Materials & Solar Cells 92 (2008) 1611–1616
275. Temperature dependence of conduction mechanism of ZnO and Co-doped ZnO thin films 1917
Rajesh Kumar, Neeraj Khare
Thin Solid Films 516 (2008) 1302 – 1307
276. Terrestrial communication experiments over various regions of Indian subcontinent and tuning of Hata's model 1923
M. V. S. N. Prasad & K. Ratnamala & M. Chaitanya & P. K. Dalela
Ann. Telecommun. 63 223-235 2008
277. The effect on dielectric losses in lithium ferrite by cerium substitution 1936
Vivek Verma, R.K. Kotnala, Vibhav Pandey, P.C. Kothari, L. Radhapiyari, B.S. Matheru
Journal of Alloys and Compounds 466 (2008) 404–407
278. The influence of the pore size and its distribution in a carbon paper electrode on the performance of a PEM Fuel cell 1940
Priyanka H. Maheshwari, R.B. Mathur, T.L. Dhani
Electrochimica Acta 54 (2008) 655–659
279. Thermal, spectroscopic and electrical transport properties of processable poly(aniline-co-alkylaniline) copolymers 1945
Parveen Saini, Hema Bhandari, Veena Choudhary & **S K Dhawan**
Indian Journal of Engineering & Materials Sciences Vol. 15, December 2008, pp. 497-504
280. Thermally activated field assisted carrier generation and transport in N,N'-di-(1-naphthalenyl)-N,N'-diphenyl-1,1'-biphenyl-4,4'-diamine doped with 2,3,5,6-tetrafluoro-7,7,8,8-tetracyanoquinodimethane 1949
Gayatri Chauhan, Ritu Srivastava, Virendra Kumar Rai, Arunandan Kumar, S. S. Bawa, P. C. Srivastava, and **M. N. Kamalasanan**
JOURNAL OF APPLIED PHYSICS 104, 124509 2008
281. Thermoelectric power studies on $(1 - x) \text{Pr}_{2/3}\text{Ba}_{1/3}\text{MnO}_3 + x \text{Ag}_2\text{O}$ composites 1954
Neeraj Panwar, D K Pandya and S K Agarwal
J. Phys.: Condens. Matter 20 (2008) 285223 (4pp)

CONTENTS

282. Thickness dependent transport properties of compressively strained La_{0.88}Sr_{0.12}MnO₃ ultrathin films 1958
Ravikant Prasad, H. K. Singh, M. P. Singh, W. Prellier, P. K. Siwach, Amarjeet Kaur
JOURNAL OF APPLIED PHYSICS 103, 083906 2008
283. Time resolved spectroscopic studies on some nanophosphors 1969
Harish Chander And Santa Chawla
Bull. Mater. Sci., Vol. 31, No. 3, June 2008, pp. 401–407
284. Time scale of NPLI: current status and future plan of improvement 1976
P Banerjee, Suman Sharma and Arundhati Chaterjee
Metrologia 45 (2008) S66–S73
285. Transport and stability studies on high band gap a-Si:H films prepared by argon dilution 1984
Purabi Gogoi , **P N Dixit And Pratima Agarwal**
PRAMANA - journal of physics Vol. 70, No. 2 February 2008 pp. 351–358
286. Transport properties of Cs doped Pr_{2/3}(Ba_{1-x}Cs_x)_{1/3}MnO₃ manganites 1992
Neeraj Panwar, Vikram Sen , D.K. Pandya , S.K. Agarwal
Journal of Alloys and Compounds 456 (2008) 479–484
287. Trap Assisted Carrier Recombination in 4-(Dicyanomethylene)-2-methyl-6-(4-dimethylaminostyryl)-4H-pyran Doped Bis[2-(2-hydroxyphenyl)bezoxazolate] Zinc 1998
Virendra Kumar RAI, Ritu S RIVASTAVA, Gayatri C HAUHAN, Kanchan SAXENA, Suresh C HAND, and M. N. KAMALASANAN
Japanese Journal of Applied Physics Vol. 47, No. 5, 2008, pp. 3408–3411
288. Trap filled limit and high current–voltage characteristics of organic diodes with non-zero Schottky barrier 2002
Pankaj Kumar, S C Jain, Vikram Kumar, Suresh Chand and R P Tandon
J. Phys. D: Appl. Phys. 41 (2008) 155108 (9pp)
289. Trend Analysis of Total Column Ozone over New Delhi, India 2011
S.L. JAIN, PAVAN S. KULKARNI, SACHIN D. GHUDE, SURAJ D. POLADE, B.C. ARYA, P.K. DUBEY AND SHAHNAWAZ
MAPAN-Journal of Metrology Society of India, Vol. 23, No. 2, 2008; pp.63-69
290. Tuning of emission colors in zinc oxide quantum dots 2018
D. Haranath, Sonal Sahai, and Prachi Joshi
APPLIED PHYSICS LETTERS 92, 233113 2008
291. Twist Grain Boundary Phases Giving Developable Domain Textures as Those Exhibited by Columnar Phases 2021
Anjuli Khandelwal, Maneesha Yadav, and **S. S. Bawa**
Mol. Cryst. Liq. Cryst., Vol. 489, pp. 298 [624]–309 [635], 2008
292. Vibrational Spectroscopy of PTSA – Doped Polyaniline 2033
Manju Arora and S.K. Gupta
Perspectives in Vibrational Spectroscopy: ICOPVS 2008

CONTENTS

| | | |
|------|--|------|
| 293. | Wastelands as water sanctuaries Soni V | 2036 |
| | <i>CURRENT SCIENCE, VOL. 94, NO. 6, 25 MARCH 2008 702</i> | |
| 294. | X-ray photoelectron and X-ray Auger electron spectroscopy studies of heavy ion irradiated C60 films Amit Kumar, F. Singh, Govind, S.M. Shivaprasad , D.K. Avasthi, J.C. Pivin | 2038 |
| | <i>Applied Surface Science 254 (2008) 7280–7284</i> | |
| 295. | Zinc oxide nanoparticles-chitosan composite film for cholesterol biosensor Raju Khan, Ajeet Kaushik, Pratima R. Solanki, Anees A. Ansari, Manoj K. Pandey, B.D. Malhotra | 2043 |
| | <i>analytica chimica acta 616 (2008) 207–213</i> | |
| 296. | Zinc oxide-chitosan nanobiocomposite for urea sensor Pratima R. Solanki, Ajeet Kaushik, Anees A. Ansari, G. Sumana, and B. D. Malhotra | 2050 |
| | <i>APPLIED PHYSICS LETTERS 93, 163903 2008</i> | |

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