	PAPERS PUBLISHED BY NPL RESEARCHERS IN SCI* JOURNALS IN 2009
S.No	**Title**
1.	AC Power & Energy Standard - NPLI Measurement, Calibration & Testing **MK Mittal, RK Kotnala, JC Biswas, Yadav A.S.** *MAPAN Volume: 24 Issue: 1 Pages: 21-28 Published: MAR 2009*
2.	Alumina Supported Co–K–Mo Based Catalytic Material for Diesel Soot Oxidation M. Dhakad, **Amish G. Joshi**, S. Rayalu, P. Tanwar, J. K. Bassin, R. Kumar, S. Lokhande, J. Subrt, T. Mitsuhashi, Nitin Labhsetwar *Top Catal (2009) 52:2070–2075*
3.	AM30 porthole die extrusions—A comparison with circular seamless extruded tubes **Rajiv Sikand** , Arun M. Kumar, Anil K. Sachdev, Alan A. Luo, **Vipin Jain**, **Anil K. Gupta** *Journal of Materials Processing Technology 209 (2009) 6010–6020*
4.	Ambient air quality during wheat and rice crop stubble burning episodes in Patiala Susheel K. Mittal , Nirankar Singh, Ravinder Agarwal, Amit Awasthi, **Prabhat K. Gupta** *Atmospheric Environment 43 (2009) 238–244*
5.	Amorphous and nanocrystalline silicon made by varying deposition pressure in PECVD process **Jhuma Gope , Sushil Kumar, A. Parashar , P.N. Dixit, C.M.S. Rauthan, O.S. Panwar**, D.N. Patel, S.C. Agarwal *Journal of Non-Crystalline Solids 355 (2009) 2228–2232*
6.	Analysis of dielectric constants to determine sp3/sp2 ratio and effect of substrate bias on spectroscopic ellipsometric studies of tetrahedral amorphous carbon films grown using an S bend filtered cathodic vacuum arc process **O S Panwar, Mohd Alim Khan**, **A Basu**, Satyendra Kumar & **Sushil Kumar** *Indian Journal of Pure & Applied Physics Vol. 47, February 2009, pp. 141-148*
7.	Angle-dependent XPS analysis of silicon nitride film deposited on screen-printed crystalline silicon solar cell **Priyanka Singh**, **S.M. Shivaprasad**, **M. Lal**, M. Husain *Solar Energy Materials & Solar Cells 93 (2009) 19–24*
8.	Anomalous thermoelectric power of overdoped Bi2Sr2CaCu2O8 superconductor **V. P. S. Awana, Jagdish Kumar Bains,** G. S. Okram, Ajay Soni, P. K. Ahluwalia, and **H. Kishan** *Journal of Applied Physics 106, 096102 (2009)*

9.	Anti-resonant reflecting photonic crystal waveguide (ARRPCW): modeling and design Shruti, R. K. Sinha, **R. Bhattacharyya** *Opt Quant Electron (2009) 41:181–187*
10.	Atmospheric phenomena deduced from radiosonde and GPS occultation measurements for various application related studies **C J Johny, S K Sarkar**, and D Punyasesudu *J. Earth Syst. Sci. 118, No. 1, February 2009, pp. 49–59*
11.	Attachment Of Streptavidin-Biotin On 3- Aminopropyltriethoxysilane (APTES) Modified Porous Silicon Surfaces **Shalini Singh**, Norman Lapin, **P.K. Singh**, Mukhtar A. Khan and Yves J. Chabal *Transport and Optical Properties of Nanomaterials—ICTOPON – 2009 p.421-426 p.443-449*
12.	Bottomside profile shape parameters during low solar activity and comparisons with IRI-2007 model **N.K. Sethi, R.S. Dabas, Purshottam Bhawre, S.K. Sarkar** *Journal of Atmospheric and Solar-Terrestrial Physics 71 (2009) 1942*
13.	Broad spectral sensitivity and improved efficiency in CuPc/Sub-Pc organic photovoltaic devices **Hemant Kumar, Pankaj Kumar, Ramil Bhardwaj, G D Sharma, Suresh Chand, S C Jain and Vikram Kumar** *J. Phys. D: Appl. Phys. 42(2009) 015103 (6pp)*
14.	Broad temperature range low field magnetoresistance in La0.7 Ca0.3 MnO3 :nano-ZnO composites **P.K. Siwach**, Pankaj Srivastava, Jai Singh, **H.K. Singh**, O.N. Srivastava *Journal of Alloys and Compounds 481 (2009) 17–21*
15.	Broad yellow orange emission from SrAl2O4:Pr3+ phosphor with blue excitation for application to white LEDs **Santa Chawla, Nitin Kumar, Harish Chander** *Journal of Luminescence 129 (2009) 114–118*
16.	Calibration & Measurement Facilities for AC High Current & High Voltage Ratio Standards at NPL **S.R. Gupta** *MAPAN Vol. 24, pp. 29-39*
17.	Carbon nanotube-based organic light emitting diodes **Malti Bansal, Ritu Srivastava, C. Lal, M. N. Kamalasanan** and

	L. S. Tanwara *Nanoscale, 2009, 1, 317–330 | 317*
18.	Carbothermal synthesis of boron nitride coating on PAN carbon fiber M. Das, A.K. Basu, S. Ghatak, **Amish G. Joshi** *Journal of the European Ceramic Society 29 (2009) 2129–2134*
19.	Cerium oxide-chitosan based nanobiocomposite for food borne mycotoxin detection **Ajeet Kaushik**, **Pratima R. Solanki, M. K. Pandey,** Sharif Ahmad, and **Bansi D. Malhotra** *Applied Physics Letters 95, 173703 2009*
20.	Challenges for Underwater Instrumentation [Editorial] **Subodh Kumar Singhal** *Indian Journal of Marine Sciences Volume 38 Number 3 September 2009 pp.265-266*
21.	Characterisation of Swift Heavy Ion-induced Mixing using Secondary Ion Mass Spectrometry **B.R. Chakraborty, K.Diva**, D.Kabiraj, and D.K.Avasthi *Defence Science Journal, Vol. 59, No. 4, July 2009, pp. 356-362*
22.	Characteristics of Rain Integral Parameters during Tropical Convective, Transition,and Stratiform Rain at Gadanki and Its Application in Rain Sanjay Sharma, Mahen Konwar, Diganta Kumar Sarma, M. C. R. Kalapureddy, **A. R. Jain** *Journal of Applied Meteorology and Climatology 48 (6) June 2009 pp. 1245-1266*
23.	Characterization of Boron- and Phosphorous-Incorporated Tetrahedral Amorphous Carbon Films Deposited by the Filtered Cathodic Vacuum Arc Process **Omvir Singh Panwar**, **Mohd. Alim Khan, Mahesh Kumar**, **Sonnada Math Shivaprasad,** Bukinakere Subbakrihniah Satyanarayana, **Prakash Narain Dixit**, and **Raghunath Bhattacharyya** *Japanese Journal of Applied Physics 48 (2009) 065501*
24.	Characterization of the E1 center in quartz: Role of aluminum hole centers and oxygen vacancies Teruo Usami, Shin Toyoda, **Harish Bahadur**, **A.K. Srivastava**, H. Nishido *Physica B 404 (2009) 3819–3823*
25.	Characterization of ZnSe nanoparticles synthesized by microwave heating process Mohd. Shakir, **S.K. Kushwaha**, **K.K. Maurya**, **G. Bhagavannarayana**, M.A. Wahab *Solid State Communications 149 (2009) 2047–2049*

26.	Characterizing surface roughness by speckle pattern analysis M Nicklawy, A F Hassan, M Bahrawi, Niveen Farid, and **Arif M Sanjid** *Journal of Scientific & Industrial Research 18 68, February 2009, pp.118-121*
27.	Charge transport and ammonia sensing response in poly (aniline-co-1-amino-2-naphthol-4-sulphonic acid) **Vineet Bansal**, M C Bansal & **S K Dhawan** *Indian Journal of Engineering & Materials Sciences Vol. 16, October 2009, pp. 355-363*
28.	Chitosan-g-polyaniline: a creatine amidinohydrolase immobilization matrix for creatine biosensor **A. Tiwari**, S. K. Shukla *eXPRESS Polymer Letters Vol.3, No.9 (2009) 553–559*
29.	Chitosan–SiO2 –multiwall carbon nanotubes nanocomposite: A novel matrix for the immobilization of creatine amidinohydrolase Ashutosh Tiwari, **Sanjay R. Dhakate** *International Journal of Biological Macromolecules 44 (2009) 408–412*
30.	Cholesterol biosensor based on electrochemically prepared polyaniline conducting polymer film in presence of a nonionic surfactant Raju Khan & **Pratima R. Solanki & Ajeet Kaushik** & **S. P. Singh** & Sharif Ahmad & **B. D. Malhotra** *J Polym Res (2009) 16:363–373*
31.	Comparative study of structural and magnetic properties of nano-crystalline Li0.5Fe2.5O4 prepared by various methods **Vivek Verma**, **Vibhav Pandey**, **Sukhveer Singh**, **R.P. Aloysius**, S. Annapoorni, **R.K. Kotanala** *Physica B 404 (2009) 2309–2314*
32.	Comparative study of transport properties of compressively strained epitaxial and polycrystalline La0.88Sr0.12MnO3 thin films **Ravikant Prasad**, Mangala Prasad Singh, Wilfred Prellier, **Praveen Kumar Siwach**, Rajiv Rawat, Amarjeet Kaur, and **Hari Krishana Singh** *Phys. Status Solidi B 246, No. 7, 1662 – 1673 (2009)*
33.	A Comparison of charge transport behavior in functionalized and non-functionalized poly 3,4-(ethylenedioxythiophene) films **M. Deepa, Shweta Bhandari**, Rama Kant *Electrochimica Acta 54 (2009) 1292–1303*

34.	Complex S-parameter measurement and its uncertainty evaluation on a vector network analyzer **Kamlesh Patel, P.S. Negi, P.C. Kothari** *Measurement 42 (2009) 145–149*
35.	Compositional and structural analysis of RF magnetron sputtered La3+ -modified PZT thin films Ravindra Singh, **B.R. Chakraborty**, **Nahar Singh, Harish Bahadur**, T.C. Goel, Sudhir Chandra *Journal of Materials Processing Technology 2 0 9 (2 0 0 9) 991–997*
36.	Conducting polymer embedded with nanoferrite and titanium dioxide nanoparticles for microwave absorption **S.K. Dhawan**, **Kuldeep Singh**, A.K. Bakhshi, **Anil Ohlan** *Synthetic Metals 159 (2009) 2259–2262*
37.	Conjugated polymer nanocomposites: Synthesis, dielectric, and microwave absorption studies **Anil Ohlan**, **Kuldeep Singh**, Amita Chandra, V. N. Singh, and **S. K. Dhawan** *Journal of Applied Physics 106, 044305 2009*
38.	Crystallographically Oriented Nanorods and Nanowires of RF-Magnetron-Sputtered Zinc Oxide **A. K. Srivastava, B. R. Chakraborty**, and S. Chandra *Journal of NanomaterialsVolume 2009, Article ID 310360, 5 pages*
39.	CtrA gene based electrochemical DNA sensor for detection of meningitis Manoj K. Patel, **Pratima R. Solanki**, Shruti Seth, Sunil Gupta, Shashi Khare, Ashok Kumar, **B.D. Malhotra** *Electrochemistry Communications 11 (2009) 969–973*
40.	Depolarization ratio measurement using single photomultiplier tube in micropulse lidar **P. K. Dubey, S. L. Jain, B. C. Arya, and Pavan S. Kulkarni** *Review of Scientific Instruments 80, 053111 2009*
41.	Desing and development of precision artifact for dissemination of low forces of 1 n and 2 n **S. S. K. Titus, Kamlesh K. Jain, S. K. Dhulkhed, Poonam Yadav** *XIX IMEKO world congress: fundamental and applied metrology,proceedings (19th IMEKO World Congress, Sep 06-11, 2009 Lisbon, Portugal) Pages: 321-323 Published: 2009*
42.	Determination of the amplitude and the phase of the elements of electric cross-spectral density matrix by spectral measurements

	Bhaskar Kanseri, Shyama Rath, **Hem Chandra Kandpal** *Optics Communications 282 (2009) 3059–3062*
43.	Determination of the Beam Coherence-Polarization Matrix of a Random Electromagnetic Beam **Bhaskar Kanseri,** Shyama Rath, and **Hem Chandra Kandpal** *IEEE Journal of Quantum Electronics, Vol. 45, No. 9, September 2009*
44.	Development and Performance Evaluation of a Dead Weight Force Machine in 2-50N Range **S.S.K. Titus**, S.K. Dhulkhe, **Poonam Yadav and Kamlesh K. Jain** *MAPAN Volume: 24 Issue: 4 Pages: 225-232, 2009*
45.	Development and validation of an infrared spectroscopy-based method for the analysis of moisture content in 5-fluorouracil **Parul Singh, Deepak K. Jangir, Ranjana Mehrotra** and A. K. Bakhshi *Drug Test. Analysis 2009, 1, 275–278*
46.	Development of Catalyst Free Carbon Nanotubes from Coal and Waste Plastics Abhishek Dosodia, **Chhotey Lal, B. P. Singh, R. B. Mathur**, and D. K. Sharma *Nanotubes and Carbon Nanostructures, 17: 567–582, 2009*
47.	Development of methane emission factors for Indian paddy fields and estimation of national methane budget **Prabhat K. Gupta, Vandana Gupta, C. Sharma**, S.N. Dasb, N. Purkait, T.K. Adhya , H. Pathak, R. Ramesh, K.K. Baruah , L. Venkatratnam , Gulab Singhi, C.S.P. Iyer *Chemosphere 74 (2009) 590–598*
48.	Development of plasma display panel phosphors at National Physical Laboratory, New Delhi **R S Yadav, A F Khan, Harish Chander, D Haranath, Ashish Yadav,** A K Sharma **Santa Chawla** Indian Journal of Pure & Applied Physics Vol. 47, June 2009, pp. 399-401
49.	Dicarboxylic acids and water-soluble organic carbon in aerosols in New Delhi, India, in winter: Characteristics and formation processes Yuzo Miyazaki, Shankar G. Aggarwal, **Khem Singh, Prabhat K. Gupta**, and Kimitaka Kawamura *Journal Of Geophysical Research, Vol. 114, D19206, doi:10.1029/2009JD011790, 2009*
50.	Dielectric and electro-optical studies of glycerol/ferroelectric liquid crystal mixture at room temperature **A. Kumar, J. Prakash, A. Choudhary, and A. M. Biradar**

	Journal of Applied Physics 105, 124101 (2009)
51.	Dielectric behavior and ac electrical conductivity analysis of ZnSe chalcogenide nanoparticles **Mohd. Shakira**, B. K. singh, **R. K. Gaur**, Binay Kumar, **G. Bhagavannarayana**, M.A. Wahab *Chalcogenide Letters Vol. 6, No. 12, December 2009, p. 655 – 660*
52.	Dielectric behavior of polyaniline–CNTs composite in microwave region Bhupendra K. Sharma, Neeraj Khare , Rajbeer Sharma, **S.K. Dhawan**, V.D. Vankar, H.C. Gupta *Composites Science and Technology 69 (2009) 1932–1935*
53.	Dielectric properties of nano ZnO-polyaniline composite in the microwave frequency range Bhupendra K. Sharma, Neeraj Khare, **S.K. Dhawan**, H.C. Gupta *Journal of Alloys and Compounds 477 (2009) 370–373*
54.	Dielectric properties of nanocrystalline $Pb_{0.8}$ $Sr_{0.2}$ TiO_3 thin films at different annealing temperature K.C. Verma, **R.K. Kotnala, M.C. Mathpal**, N. Thakur, Prikshit Gautam, N.S. Negi *Materials Chemistry and Physics 114 (2009) 576–579*
55.	Dielectric tunability and conduction mechanisms of nanostructured (Pb1−x Srx)TiO3 thin films Kuldeep Chand Verma, **R.K. Kotnala,** N.S. Negi *Appl Phys A (2009) 96: 1009–1015*
56.	Direct Comparison between the NIST 10V Compact Josephson Voltage Standard and the 2.5 V Programmable Josephson Voltage Standard **Shiv Kumar Jaiswal** and Y. Tang *MAPAN Volume: 24 Issue: 4 Pages: 207-214 Published: DEC 2009*
57.	Direct determination of the generalized Stokes parameters from the usual Stokes parameters **Bhaskar Kanseri,** Shyama Rath**, and Hem Chandra Kandpal** *Optics Letters / Vol. 34, No. 6 / March 15, 2009 p.719-721*
58.	Direct Measurement of Acoustic Impedance in Liquids by a New Pulse Echo Technique **Deepa Joshi, Deepa Bhatnager, Ashok Kumar and Reeta Gupta** *MAPAN Vol. 24, No.4,2009 pp.215-224*

59.	Dithieno[3,2-b:20,30-d]pyrrole–Alkylthiophene–Benzo[c] [1,2,5]thiadiazole-Based Highly Stable and Low Band Gap Polymers for Polymer Light-Emitting Diodes Sarada P. Mishra, Akshaya K. Palai, **Ritu Srivastava**, **Modeeparampil N. Kamalasanan**, Manoranjan Patri Journal of Polymer Science: Part A: Polymer Chemistry 2009, vol. 47,23, pp. 6514-6525
60.	Diversity sustains an evolving network **Ravi Mehrotra**, Vikram Soni and Sanjay Jain *J. R. Soc. Interface (2009) 6, 793–799*
61.	Dopant induced morphology changes in ZnO nanocrystals **K. Jayanthi, Santa Chawla, K.N. Sood, Manisha Chhibara, Sukvir Singh** *Applied Surface Science 255 (2009) 5869–5875*
62.	Effect of Active Layer Thickness on Open Circuit Voltage in Organic Photovoltaic Devices **Pankaj Kumar, Hemant Kumar, S. C. Jain**, P. Venkatesu, **Suresh Chand**, and **Vikram Kumar** *Japanese Journal of Applied Physics 48 (2009) 121501*
63.	Effect of alkaline earth and transition metals doping on the properties and crystalline perfection of potassium hydrogen phthalate (KHP) crystals **G. Bhagavannarayan**, Shanmugasundaram Parthiban, Chinnusamy Chandrasekaran and Subbiah Meenakshisundaram *Cryst Eng Comm, 2009, 11, 1635–1641*
64.	Effect of ammonium malate on growth rate, crystalline perfection, structural, optical, thermal, mechanical, dielectric and NLO behaviour of ammonium dihydrogen phosphate crystals P. Rajesh , P. Ramasamy, **G. Bhagavannarayana** *Journal of Crystal Growth 311 (2009) 4069–4075*
65.	Effect of annealing on microstructure and P–E hysteresis of vanadium doped SrBi2Ta2O9 **P. Goel, V. N. Ojha** and K. L. Yadav *Materials Research Innovations 2009 VOL 13 NO 3*
66.	Effect of carbon nanotubes on response time of ferroelectric liquid crystals **J. Prakash, A. Choudhary**, D. S. Mehta, and **A. M. Biradar** *Physical Review E 80, 012701 2009*
67.	The Effect of Error in Position Co-ordinates of the Receiving Antenna on the Single-Satellite-Mode GPS Timing **Suman Sharma and P. Banerjee** *2009 Joint Meeting of the European Frequency and Time Forum and the IEEE International Frequency Control Symposium, V 1 AND 2*

	Book Series: IEEE International Frequency Control Symposium Pages: 695-699 Published: 2009
68.	Effect of illumination intensity and temperature on open circuit voltage in organic solar cells **Pankaj Kumar, S. C. Jain, Hemant Kumar, Suresh Chand, and Vikram Kumar** *Applied Physics Letter 94, 183505 2009*
69.	Effect of illumination on the space charge limited current in organic bulk heterojunction diodes **Pankaj Kumar, S.C. Jain, Vikram Kumar, Suresh Chand, R.P. Tandon** *Appl Phys A (2009) 94: 281–286*
70.	Effect of multielement doping on low-field magnetotransport in La0.7ÀxMmxCa0.3MnO3 (0.0pxp0.45) manganite **P.K. Siwach**, Pankaj Srivastava, **H.K. Singh**, A. Asthana, Y. MatsuI, T. ShripathI, O.N. Srivastava *Journal of Magnetism and Magnetic Materials 321 (2009) 1814–1820*
71.	Effect of nano γ-Al2O3 addition on ion dynamics in polymer electrolytes **Shahzada Ahmad, S.A. Agnihotry** *Current Applied Physics 9 (2009) 108–114*
72.	Effect of non-zero Schottky barrier on the J-V characteristics of organic diodes **Pankaj Kumar, S.C. Jain, Vikram Kumar, Suresh Chand, and R.P. Tandon** *Eur. Phys. J. E 28, 361–368 (2009)*
73.	Effect of Pb adatom flux rate on adlayer coverage for Stranski–Krastanov growth mode on Si(1 1 1)7 Â 7 surface Manoj Kesaria, **Mahesh Kumar, Govind**, S.M. Shivaprasad *Applied Surface Science 256 (2009) 576–579*
74.	Effect of photoelectric emission on blunt probe conductivity measurements in the stratosphere **Thomas John, P. Chopra, S.C. Garg** *Journal of Atmospheric and Solar-Terrestrial Physics 71 (2009) 905–910*
75.	Effect of rare-earth doping on the superconducting properties of MgB2 N. Ojha, G. D. Varma, **H. K. Singh, and V. P. S. Awana** *Journal of Applied Physics 105, 07E315 2009*
76.	Effect of spin paramagnetism on upper critical field of disordered nanocrystalline PbMo6S8 superconductor **Ratan Lal** *Physica C 469 (2009) 265–267*

77.	Effect of Surface Anchoring on Optical Bistability in Deformed Helix Ferroelectric Liquid Crystal J. Prakash, **A. Choudhary**, D. S. Mehta, and **A. M. Biradar** *Mol. Cryst. Liq. Cryst., Vol. 511, pp. 188/[1658]–196/[1666], 2009*
78.	Effect of temperature on the performance of CuPc/C60 photovoltaic device **Hemant Kumar, Pankaj Kumar, Neeraj Chaudhary, Ramil Bhardwaj, Suresh Chand, S C Jain and Vikram Kumar** *J. Phys. D: Appl. Phys. 42 (2009) 015102 (6pp)*
79.	Electrical and optical properties of poly(aniline-co-8-anilino-1-napthalene sulphonic acid) — A material for ESD applications **Vineet Bansal, Hema Bhandari1,** M C Bansal **& S K Dhawan1** *Indian Journal of Pure & Applied Physics Vol. 47, September 2009, pp. 667-675*
80.	Electrical properties and EMI shielding behavior of highly thermally stable polyaniline/colloidal graphite composites **Parveen Saini**, Veena Choudhary and **S. K. Dhawan** *Polym. Adv. Technol. 2009, 20 355–361*
81.	Electrically tunable spatially variable switching in ferroelectric liquid crystal/water system **A. Choudhary, I. Coondoo, J. Prakash,** K. Sreenivas and **A. M. Biradar** *Applied Physics Letters 94, 174101 2009*
82.	Electrochemical Cholesterol Sensor Based on Tin Oxide-Chitosan Nanobiocomposite Film **Anees A. Ansari, Ajeet Kaushik, Pratima R. Solanki, B. D. Malhotra** *Electroanalysis 2009, 21, No. 8, 965 – 972*
83.	Electrochemically synthesized large area network of Cox Niy Alz layered triple hydroxides nanosheets: A high performance supercapacitor **Vinay Gupta**, Shubhra Gupta, Norio Miura *Journal of Power Sources 189 (2009) 1292–1295*
84.	Electrochemistry of poly(3,4-ethylenedioxythiophene)-polyaniline/ Prussian blue electrochromic devices containing an ionic liquid based gel electrolyte filmw **Melepurath Deepa, Arvind Awadhia and Shweta Bhandari** *Phys. Chem. Chem. Phys., 2009, 11, 5674–5685*
85.	Electrochromic Contrast Enhancement of Nanostructured Poly(3,4-ethylenedioxythiophene)-Polystyrene Sulfonate Films by Composition/Morphology Control **Shweta Bhandari, M. Deepa1, A. K. Srivastava, S. T. Lakshmikumar**, and Rama Kant *Journal of Nanoscience and Nanotechnology Vol.9, 3052–3061, 2009*

86.	Electrochromic response, structure optimization and ion transfer behavior in viologen adsorbed titanium oxide films **Shweta Bhandari, M. Deepa, A.K. Srivastava, S.T. Lakshmikumar**, Rama Kant Solid State Ionics 180 (2009) 41–49
87.	Electromagnetic Interference Shielding Behavior of Polyaniline/Graphite Composites Prepared by In Situ Emulsion Pathway **Parveen Saini,** Veena Choudhary, K. N. Sood, **S. K. Dhawan** *Journal of Applied Polymer Science, Vol. 113, 3146–3155 (2009)*
88.	Electropolymerization of Poly(methyl pyrrole)/Carbon Nanotubes Composites Derived from Ionic Liquid **Shahzada Ahmad** *Polymer Engineering and Science 49,5 916-921 (May 2009)*
89.	Enhanced critical parameters of nanocarbon doped MgB2 superconductor **Monika Mudgel**, L. S. Sharath Chandra, V. Ganesan, G. L. Bhalla, **H. Kishan**, **V. P. S. Awana** *Journal of Applied Physics 106, 033904 2009*
90.	Enhanced Memory Effect in Conducting Polymer Coated Surfaces of Ferroelectric Liquid Crystals **Anu Malik**, Jai Prakash, Poonam Silotia, and **Ashok M. Biradar** *Applied Physics Express 2 (2009) 121401*
91.	Enhanced photoluminescence in gold nanoparticles doped ferroelectric liquid crystals **A. Kumar**, **J. Prakash,** D. S. Mehta, **A. M. Biradar** and W. Haase *AppliedPhysics Letters 95, 023117 2009*
92.	Enhanced room temperature coefficient of resistance and magnetoresistance of Ag-added La0.7Ca0.3−xBaxMnO3 composites **Rahul Tripathi**, **V P S Awana**, Neeraj Panwar, G L Bhalla, H U Habermier, **S K Agarwal and H Kishan** *J. Phys. D: Appl. Phys. 42 (2009) 175002 (7pp)*
93.	Enhancement in hole current density on polarization in poly(3- hexylthiophene):cadmium selenide quantum dot nanocomposite thin films Kusum Kumari, **Suresh Chand**, V. D. Vankar, and **Vikram Kumar** *Applied Physics Letters 94, 213503 2009*
94.	Enhancement of ferro-para transition in ethanol doped ferroelectric liquid crystals **A. Malik, A. Choudhary, J. Prakash, I. Coondoo, and A. M. Biradar**

	Journal of Applied Physics 105, 034105 2009
95.	Enhancement of stability of growth, structural and NLO properties of KDP crystals due to additive along with seed rotation P. V. Dhanaraj, N. P. Rajesh, P. Ramasamy, M. Jeyaprakasan, C. K. Mahadevan, and **G. Bhagavannarayana** *Cryst. Res. Technol. 44, No. 1, 54 – 60 (2009)*
96.	Enormous Change in Tilt Angle and Transition Temperature of Smectic CÃ –Smectic A Phase in Electroclinic Liquid Crystal Material **Amit Choudhary, Ajay Kumar, Sarabjot Kaur, Jai Prakash, and Ashok Manikrao Biradar** *Japanese Journal of Applied Physics 48 (2009) 050201*
97.	Environmental aspects of biofuels in road transportation Sippy Kalra Chauhan & S. Gangopadhyay & **Nahar Singh** *Environ Chem Lett (2009) 7:289–299*
98.	Epitaxial SiC formation induced by medium energy ions on Si(1 1 1) at room temperature **Praveen Kumar**, Lekha Nair, Santanu Bera, B.R. Mehta, S.M. Shivaprasad *Applied Surface Science 255 (2009) 6802–6805*
99.	EPR and optical absorption studies on VO2+ ions in l-asparagine monohydrate single crystals Ram Kripal, Indrajeet Mishra, **S.K. Gupta** , **Manju Arora** *Spectrochimica Acta Part A 71 (2009) 1969–1972*
100.	Evaluation and Expression of Uncertainty in the Determination of Alumina in Deodorants Using Complexometric Method Nijhuma Kayal, **Nahar Singh, V. N. Ojha**, and **Prabhat K. Gupta** *Journal of Testing and Evaluation, Vol. 37, No. 4, 1-8 2009*
101.	Evaluation of Laboratory Performance Through Interlaboratory Comparison (vol 24, pg 125, 2009) **Sanjay Yadav, A.K. Bandyopadhyay** *MAPAN 24,2, 125-138 June 2009*
102.	Evaluation of Laboratory Performance Through Interlaboratory Comparison [Erratum] **Sanjay Yadav and A.K. Bandyopadhyay** *MAPAN Vol. 24, No.3, 2009; pp. 203-204*
103.	Evaluation of Performance of GPS Receiver in CRRI Network Survey Vehicle **P. Banerjee** and **P.P. Thorat** *MAPAN V.24 No.4, 2009 ; 233-239*

104.	Experimental deduction of In/Si(1 1 1) 2D phase diagram and ab initio DFT modeling of 2H3 phase K. Jithesh, **Govind**, U.V. Waghmare, S.M. Shivaprasad *Applied Surface Science 256 (2009) 348–352*
105.	Fabrication and chemical surface modification of nanoporous silicon for biosensing applications **Shalini Singh**, **Shailesh N. Sharma**, **Govind**, **S.M. Shivaprasad**, **Mohan Lal** and Mukhtar A. Khan *Intern. J. Environ. Anal. Chem. Vol. 89, No. 3, 15 March 2009, 141–152*
106.	Fabrication and current–voltage characteristics of ZnO/α NPD based inorganic–organic hybrid structure **Rajesh Kumar**, Neeraj Khare, **Vijay Kumar**, G L Bhalla, **Ritu Srivastava** , **Gayatri Chauhan** and **M N Kamalasanan** *Semicond. Sci. Technol. 24 (2009) 045020 (4pp)*
107.	Fabrication of buried contact silicon solar cells using porous silicon P. Vitanov, E. Goranova, V. Stavrov, P. Ivanov, **P.K. Singh** *Solar Energy Materials & Solar Cells 93 (2009) 297–300*
108.	Fabrication of white organic light-emitting diodes by co-doping of emissive layer **Ritu Srivastava, Gayatri Chauhan, Kanchan Saxena, S S Bawa,** P C Srivastava **& M N Kamalasanan** *Indian Journal of Pure & Applied Physics Vol. 47, January 2009, pp. 19-23*
109.	A Facile and Novel Synthesis of Ag–Graphene-Based Nanocomposites **Renu Pasricha, Shweta Gupta, and Avanish Kumar Srivastava** *Small 2009, 5, No. 20, 2253–2259*
110.	Ferroelectric and piezoelectric properties of tungsten substituted SrBi2Ta2O9 ferroelectric ceramics **Indrani Coondoo, S.K. Agarwal**, A.K. Jha *Materials Research Bulletin 44 (2009) 1288–1292*
111.	Ferroelectricity in glycine picrate: An astonishing observation in a centrosymmetric crystal **M. Shakir**, B. K. Singh, B. Kumar, and **G. Bhagavannarayana** *Applied Physics Letters 95, 252902 (2009)*
112.	Formation of In-Induced Superstructural Phases on Si(111)7 × 7 Reconstructed Surface **Govind, K. Jithesh, Mahesh Kumar, SM Shivaprasad** *J Nanosci Nanotechnol. 2009 Sep;9(9):5417-20.*

113.	Formation of Oxygen Induced Nanopyramids on Rh(210) Surface **Govind**, Wenhua Chen, Hao Wang and T.E. Madey *Transport and Optical Properties of Nanomaterials—ICTOPON – 2009 pp. 521-527*
114.	Formation of water-soluble and biocompatible TOPO-capped CdSe quantum dots with efficient photoluminescence **Himani Sharma, Shailesh N. Sharma, Umesh Kumar,** V. N. Singh, B. R. Mehta, Gurmeet Singh, **S. M. Shivaprasad,** Rita Kakkar *J Mater Sci: Mater Med (2009) 20:S123–S130*
115.	Fumed silica nanoparticles–chitosan nanobiocomposite for ochratoxin-A detection **Ajeet Kaushik**, **Pratima R. Solanki K.N. Sood**, Sharif Ahmad, **Bansi D. Malhotra** *Electrochemistry Communications 11 (2009) 1919–1923*
116.	Functionalized Gold Nanoparticles – Octadecylamine Hybrid Langmuir-Blodgett Film for Enzyme Sensor **Zimple Matharu, Pratibha Pandey**, **M. K. Pandey**, Vinay Gupta, **B. D. Malhotra** *Electroanalysis 2009, 21, No. 14, 1587 – 1596*
117.	Ga-induced superstructures on the Si(1 1 1) 7 Â 7 surface **Praveen Kumar**, **M. Kumar**, B.R. Mehta, S.M. Shivaprasad *Applied Surface Science 256 (2009) 480–483*
118.	Generation and recombination lifetime measurement in silicon wafers using impedance spectroscopy **Sanjai Kumar**, **P K Singh,** G S Chilana and S R Dhariwal *Semicond. Sci. Technol. 24 (2009) 095001 (8pp)*
119.	Generation of a hollow Gaussian beam and its anomalous behavior **Suman Anand** *Optics Communications 282 (2009) 1335–1339*
120.	Growth and characterization of a new NLO material: L-Glutamic acid hydro bromide [L-GluHBr] R. Sathyalakshmi, **G. Bhagavannarayana**, P. Ramasamy *Materials Research Bulletin 44 (2009) 1097–1101*
121.	Growth and characterization of glycine picrate—Remarkable second-harmonic generation in centrosymmetric crystal **Mohd. Shakir, S.K. Kushwaha, K.K. Maurya, Manju Arora, G. Bhagavannarayana** *Journal of Crystal Growth 311 (2009) 3871–3875*

122.	Growth and characterization of organic non-linear optical crystal 4-hydoroxy benzaldehyde-N-methyl 4-stilbazolium tosylate (HBST) K. Jagannathan, S. Kalainathan, **G. Bhagavannarayana** *Spectrochimica Acta Part A 73 (2009) 79–83*
123.	Growth of cadmium mercury thiocyanate single crystals using acetone–water mixed solvent and their characterization studies C.M. Raghavan, R. Pradeepkumar, **G. Bhagavannarayana**, R. Jayavel *Journal of Crystal Growth 311 (2009) 3174–3178*
124.	Growth of ninhydrin single crystal and its characterization T. Uma Devi, N. Lawrence, R. Ramesh Babu, K. Ramamurthi, **G. Bhagavannarayana** *Spectrochimica Acta Part A 71 (2009) 1667–1672*
125.	High permeability and low power loss of Ti and Zn substitution lithium ferrite in high frequency range **Vivek Verma, S.P. Gairola, Vibhav Pandey, J.S. Tawale**, Hua Su, **R.K. Kotanala** *Journal of Magnetism and Magnetic Materials 321 (2009) 3808–3812*
126.	High temperature carrier controlled ferromagnetism in alkali doped ZnO nanorods **Santa Chawla, K. Jayanthi, and R. K. Kotnala** *Journal of Applied Physics 106, 113923 2009*
127.	Hump structure below Tc in the thermal conductivity of MgB2 superconductor **R. Lal , Arpita Vajpayee, V.P.S. Awana, H. Kishan, A.M. Awasthi** *Physica C 469 (2009) 106–110*
128.	Hybrid Cross-Linked Polyaniline-WO3 Nanocomposite Thin Film for NOx Gas Sensing **Ajeet Kaushik, Raju Khan**, Vinay Gupta, **B. D. Malhotra**, Sharif Ahmad and **S.P. Singh** *Journal of Nanoscience and Nanotechnology, 9, (2009) 1792-1796*
129.	Hydrogen peroxide sensor based on horseradish peroxidase immobilized nanostructured cerium oxide film **Anees A. Ansari, Pratima R. Solanki, B.D. Malhotra** *Journal of Biotechnology 142 (2009) 179–184*
130.	Hydrosilylation of 1-dodecene on Nanostructured Porous Silicon Surface: Role of Current Density and Stabilizing Agent **Shalini Singh, Shailesh N. Sharma, Govind,** Mukhtar A. Khanb and **P.K. Singh** *Transport and Optical Properties of Nanomaterials—ICTOPON – 2009 p.421-426*

131.	Immobilization of cholesterol oxidase onto electrochemically polymerized film of biocompatible polyaniline-Triton X-100 **Raju Khan, Ajeet Kaushik**, A.P. Mishra Materials Science and Engineering C 29 (2009) 1399–1403
132.	Impact of magnetic phase coexistence on magnetotransport in polycrystalline Nd0.51Sr0.49MnO3 thin film **H K Singh**, **P Kumar**, **R Prasad**, M P Singh, **V Agarwal, P K Siwach** and P Fournier J. Phys. D: Appl. Phys. 42 (2009) 105009 (6pp)
133.	Improved Electromagnetic Interference Shielding Properties of MWCNT–PMMA Composites Using Layered Structures **Shailaja Pande, B. P. Singh, R. B. Mathur, T. L. Dhami, P. Saini, S. K. Dhawan** *Nanoscale Res Lett (2009) 4:327–334*
134.	Improved performance of PEM fuel cell using carbon paper electrode prepared with CNT coated carbon fibers **Priyanka H. Maheshwari, R.B. Mathur** *Electrochimica Acta 54 (2009) 7476–7482*
135.	Indigenous Ion Sources for Material Processing **R. Bhattacharyya** Defence Science Journal, Vol. 59, No. 4, July 2009, pp. 377-394
136.	Induced thermoluminescence of X-ray irradiated nanostructured zinc oxide **A.K. Srivastava**, K. Ninagawa, S. Toyoda, **B.R. Chakraborty**, S. Chandra Optical Materials 32 (2009) 410–413
137.	Influence of coal tar pitch coating on the properties of micro and nano SiC incorporated carbon–ceramic composites **Rajeev Kumar, Anil Kumar, Mandeep Kaur, Sandeep Kumar, P. R. Sengupta, V. Raman, Gopal Bhatia** *J Mater Sci (2009) 44:4633–4638*
138.	Influence of Expanded Graphite Particle Size on the Properties of Composite Bipolar Plates for Fuel Cell Application **S. R. Dhakate, R. B. Mathur, S. Sharma**, M. Borah, and **T. L. Dhami** *Energy & Fuels 2009, 23, 934–941*

139.	Influence of Fe doping on nanostructures and photoluminescence of sol–gel derived ZnO **A.K. Srivastava, M. Deepa, N. Bahadur,** M.S. Goyat Materials Chemistry and Physics 114 (2009) 194–198
140.	The Influence of Mn-doping on the nonlinear optical properties and crystalline perfection of tris(thiourea)zinc(II) sulphate crystals: Concentration effects **G.Bhagavannarayana, S.K. Kushwaha**, S. Parthiban, Subbiah Meenakshisundaram *Journal of Crystal Growth 311 (2009) 960–965*
141.	Influence of Organic Solvent on tristhiourea- zinc(ii)sulphate crystals S. Meenakshisundaram, S. Parthiban, **G. Bhagavannarayana**, G. Madhurambal and S. C. Mojumdar *Journal of Thermal Analysis and Calorimetry, Vol. 96 (2009) 1, 125–129*
142.	Influence of reaction conditions on the formation of nanotubes/nanoparticles of polyaniline in the presence of 1-amino-2-naphthol-4-sulfonic acid and applications as electrostatic charge dissipation material **Hema Bhandari, Vineet Bansal**, Veena Choudhary and **Sundeep K Dhawana** *Polym Int 2009; 58: 489–502*
143.	Influence of sintering temperature and oxygen annealing on transport properties of La0.67Ca0.33MnO3 **Rahul Tripathi , Anjana Dogra , A K Srivastava , V P S Awana, R K Kotnala,** G L Bhalla **and H Kishan** *J. Phys. D: Appl. Phys. 42 (2009) 025003 (6pp)*
144.	Influence of thermal environments on the growth of bulk cadmium zinc telluride (CZT) single crystals V. Carcelen, **N. Vijayan**, J. Rodrıguez-Fernandez, P. Hidalgo, J. Piqueras , N.V. Sochinskii , J.M. Perez, E. Dieguez Journal of Crystal Growth 311 (2009) 1264–1267
145.	An Innovative Time service via Telephone Network - A study on its Potentiality **P. Banerjee, P. P. Thorat, A. K. Suri** *2009 Joint Meeting of the European Frequency and Time Forum and the IEEE INTERNATIONAL FREQUENCY CONTROL SYMPOSIUM, VOLS 1 AND 2 Book Series: IEEE International Frequency Control Symposium Pages: 733-737 Published: 2009*

146.	Intense red-emitting Y4Al2O9:Eu3+phosphor with short decay time and high color purity for advanced plasma display panel **Ravishanker Yadav, Atif F. Khan, Ashish Yadav, Harish Chander, Divi Haranath, Bipin Kr. Gupta, Virendra Shanker and Santa Chawla** *Optics Express 22023 Vol. 17, No. 24 23 November 2009*
147.	International comparison of the determination of cadmium and lead in herb: the Comite Consultatif pour la Quantite de Matiere (CCQM) pilot study CCQM-P97 Y. C. Wong , D. W. M. Sin, Y. C. Yip, L. Valiente, A. Toervenyi, J. Wang, G. Labarraque, **P. Gupta, D. Soni**, Surmadi, E. Hwang, C. Yafa, O. Cankur, E. Uysal, G. Turk, R. Huertas *Accred Qual Assur (2009) 14:151–158*
148.	Intrinsic study for magnetoelectric coupling in Pb1−x Srx (Fe0.012 Ti0.988)O3 nanoparticles Kuldeep Chand Verma , **R.K. Kotnala**, N.S. Negi *Solid State Communications 149 (2009) 1743–1748*
149.	Investigation of confinement effects in ZnO quantum dots **D Haranath, Sonal Sahai, Amish G Joshi, Bipin K Gupta and V Shanker** *Nanotechnology 20 (2009) 425701 (7pp)*
150.	Investigation of water-assisted synthesis of high quality carbon nanotubes Malti Bansal , **C. Lal**, L.S. Tanwar, V. Gupta Materials Science and Engineering B 157 (2009) 93–95
151.	Investigations of structural, dielectric and optical properties on silicon ion irradiated glycine monophosphate single crystals T. Kanagasekaran, P. Mythili, **G. Bhagavannarayana**, D. Kanjilal, R. Gopalakrishnan *Nuclear Instruments and Methods in Physics Research B 267 (2009) 2495–2502*
152.	Ionospheric effects of solar flares at Mars **K. K. Mahajan, Neelesh K. Lodhi and Sachchidanand Singh** Geophysical Research Letters, Vol. 36, L15207, 2009
153.	Iron oxide-chitosan hybrid nanobiocomposite based nucleic acid sensor for pyrethroid detection **Ajeet Kaushika, Pratima R. Solanki, Anees A. Ansari, Bansi D. Malhotra**, Sharif Ahmad *Biochemical Engineering Journal 46 (2009) 132–140*
154.	Iron oxide-chitosan nanobiocomposite for urea sensor **Ajeet Kaushik, Pratima R. Solanki , Anees A. Ansari, G. Sumana,** Sharif Ahmad **, Bansi D. Malhotra**

	Sensors and Actuators B 138 (2009) 572–580
155.	Kinetic studies on effects of EDTA and surfactants on reduction of vanadium(V) to vanadium(IV) in sulphuric acid medium A P Mishra, **Raju Khan, & Ravi Ranjan Pandey** Indian Journal of Chemistry Vol. 48A, September 2009, pp. 1228-1234
156.	Langmuir–Blodgett film based on MEH-PPV for cholesterol biosensor **Zimple Matharu , Sunil K. Arya , S.P. Singh** , Vinay Gupta , **B.D. Malhotra** *Analytica Chimica Acta 634 (2009) 243–249*
157.	Large enhancements in low latitude total electron content during 15 May 2005 geomagnetic storm in Indian zone N. Dashora, S. Sharma , **R. S. Dabas**, S. Alex, and R. Pandey *Ann. Geophys., 27, 1803–1820, 2009*
158.	Large-scale synthesis, characterization and photoluminescence properties of amorphous silica nanowires by thermal evaporation of silicon monoxide **Sanjay K. Srivastava , P.K. Singh**, V.N. Singh, **K.N. Sood**, **D. Haranath**, **Vikram Kumar** *Physica E 41 (2009) 1545–1549*
159.	Low Density Lipoprotein Detection Based on Antibody Immobilized Self-Assembled Monolayer: Investigations of Kinetic and Thermodynamic Properties **Zimple Matharu**, Amay Jairaj Bandodkar, **G. Sumana, Pratima R. Solanki**, E. M. I. Mala Ekanayake, Keiichi Kaneto, Vinay Gupta, and **B. D. Malhotra** *J. Phys. Chem. B 2009, 113, 14405–14412*
160.	Low density lipoprotein sensor based on surface plasmon resonance **Zimple Matharu** , **G. Sumana, M.K. Pandey**, Vinay Gupta, **B.D. Malhotra** *Thin Solid Films 518 (2009) 719–723*
161.	Low temperature specific heat (zero field and with field) of Fe and Mn-doped MgB2 Ashok Rao, **Bhasker Gahtori, S.K. Agarwal**, Tirthankar Chakraborty, Chandan Kumar Sarkar, Anirban Das *Physica C 469 (2009) 64–69*
162.	Magnesium Induced Superstructural Changes in High Index Si (5512) Surface: Formation of Quasi One Dimensional Structures **M Kumar**, SM Shivaprasad

	Journal of Nanoscience and Nanotechnology Vol. 9, 5637-5641, 2009
163.	Magnetic and electrical properties of manganese and cadmium co-substituted lithium ferrites **Vivek Verma, S.P. Gairola**, **Mohan C. Mathpal**, S. Annapoorni, **R.K. Kotnala** *Journal of Alloys and Compounds 481 (2009) 872–876*
164.	Magnetic and magneto-transport properties of (Ba0.8 Sr0.2)2−x Ndx FeMoO6 **Vibhav Pandey, Vivek Verma, R.P. Aloysius,** G.L. Bhalla**, R.K. Kotnala** *Solid State Communications 149 (2009) 869–873*
165.	Magnetic and magneto-transport properties of double perovskite $Ba_{2x}Sr_xFeMoO_6$ system **VibhavPandey, Vivek Verma, R.P.Aloysius,** G.L.Bhalla**, V.P.S.Awana, H.Kishan, R.K.Kotnala** *Journal of Magnetism and Magnetic Materials 321(2009)2239–2244*
166.	Metal oxide–chitosan based nanocomposite for cholesterol biosensor **Bansi D. Malhotra, Ajeet Kaushik** *Thin Solid Films 518 (2009) 614–620*
167.	Methane and nitrous oxide emissions from an integrated rainfed rice–fish farming system of Eastern India **A. Datta**, D.R. Nayak, D.P. Sinhababu, T.K. Adhya *Agriculture, Ecosystems and Environment 129 (2009) 228–237*
168.	Midday bottomside electron density profiles during moderate solar activity and comparison with IRI-2001 **N.K. Sethi, R.S. Dabas, A.K. Upadhayaya** *Advances in Space Research 43 (2009) 973–983*
169.	A Model for the current–voltage characteristics of organic bulk heterojunction solar cells **Pankaj Kumar, S C Jain, Vikram Kumar, Suresh Chand** and R P Tandon *J. Phys. D: Appl. Phys. 42 (2009) 055102 (7pp)*
170.	A Model for the J-V characteristics of P3HT:PCBM solar cells **Pankaj Kumar, S. C. Jain, Vikram Kumar, Suresh Chand,** and R. P. Tandon *Journal of Applied Physics 105, 104507 ·2009·*
171.	A Modified version of Young's interferometer to study the Fresnel and Arago interference laws **Bhaskar Kanseri, Nandan S Bisht,** Shyama Rath and **H C Kandpal**

	Eur. J. Phys. 30 (2009) 835–844
172.	Morphology Dependent Luminescence Properties of Co Doped TiO2 Nanostructures Kajari Das, **Shailesh N. Sharma, Mahesh Kumar**, and S. K. De *J. Phys. Chem. C 2009, 113, 14783–14792*
173.	Multi-walled carbon nanotubes/sol–gel-derived silica/chitosan nanobiocomposite for total cholesterol sensor **Pratima R. Solanki, Ajeet Kaushik, Anees A. Ansari, A. Tiwari, B.D. Malhotra** *Sensors and Actuators B 137 (2009) 727–735*
174.	Multifunctional behaviour of nanostructured Pb0.7Sr0.3(Fe0.012Ti0.988)O3 thin film **R K Kotnala**, Kuldeep Chand Verma, **M C Mathpal** and N S Negi *J. Phys. D: Appl. Phys. 42 (2009) 085408 (7pp)*
175.	Nano-vanadium doping-driven low temperature structural phase transformation in titania **Anuj Kumar, Bhasker Gahtori, Neeraj Kumar, V. P. S. Awana, A. K. Srivastava, Neeraj Panwar And H. Kishan,** I. Felner *Modern Physics Letters B, Vol. 23, No. 29 (2009) 3543–3549*
176.	Nanofiber Organic Semiconductors: The Effects of Nanosize on the Electrical Charge Transport and Optical Properties of Bulk Polyanilines F. Yakuphanoglu, **R. Mehrotra**, **A. Gupta**, M. Munoz Journal of Applied Polymer Science, Vol. 114, 794–799 (2009)
177.	Nanoporous cerium oxide thin film for glucose biosensor Shibu Saha, **Sunil K. Arya**, S.P. Singh , K. Sreenivas, **B.D. Malhotra**, Vinay Gupta *Biosensors and Bioelectronics 24 (2009) 2040–2045*
178.	Nanostructured cerium oxide film for triglyceride sensor **Pratima R. Solanki, Chetna Dhand, Ajeet Kaushik, Anees A. Ansari, K.N. Sood, B.D. Malhotra** *Sensors and Actuators B 141 (2009) 551–556*
179.	A Nanostructured cerium oxide film-based immunosensor for mycotoxin detection **Ajeet Kaushik**, **Pratima Rathee Solanki**, **Anees Ahmad Ansari**, Sharif Ahmad and **Bansi Dhar Malhotra**

	Nanotechnology 20 (2009) 055105 (8pp)
180.	Nanostructured porous silicon as functionalized material for biosensor application **Shalini Singh, Shailesh N. Sharma, Govind, S. M. Shivaprasad, Mohan Lal,** Mukhtar A. Khan *J Mater Sci: Mater Med (2009) 20:S181–S187*
181.	Nanostructured zinc oxide film for urea sensor **Azahar Ali, Anees A. Ansari, Ajeet Kaushik, Pratima R. Solanki, A. Barik, M.K. Pandey, B.D. Malhotra** *Materials Letters 63 (2009) 2473–2475*
182.	Nanostructured zinc oxide platform for cholesterol sensor **Pratima R. Solanki, Ajeet Kaushik, Anees A. Ansari, and B. D. Malhotra** *Applied Physics Letters 94, 143901 2009*
183.	Nanostructured zirconium oxide based genosensor for Escherichia coli detection **Pratima R. Solanki**, **Ajeet Kaushik, P.M. Chavhan, S.N. Maheshwari, B.D. Malhotra** *Electrochemistry Communications 11 (2009) 2272–2277*
184.	Neutron structural studies on the superconducting Nd1−xCax...„Ba1.6La0.4...Cu3Oz system **Amish G. Joshi**, R. G. Kulkarni, W. B. Yelon, Ram Prasad, and M. R. Gonal Journal of Applied Physics 105, 083919 ·2009·
185.	A New scheme for large-scale natural water storage in the floodplains: the Delhi Yamuna floodplains as a case study **Vikram Soni**, A. K. Gosain, P. S. Datta and Diwan Singh *Current Science, Vol. 96, No. 10, 25 MAY 2009*
186.	Nitrogen Ion Induced 2D-GaN Layer Formation of GaAs (001) Surface **Praveen Kumar**, S. Bhattacharya, **Govind**, B.R.Mehta, S.M. Shivaprasad *Journal of Nanoscience and Nanotechnology 9(9)pp. 5659-5663, 2009*
187.	Non performance estimation of a microwave communication link due to rain during the monsoon months of 2006 over Kolkata **S K Sarkar, M M Gupta, Iqbal Ahmad and C J Johny** *Indian J. Phys. 83 (10) 1385-1394 (2009)*

188.	Normal state connectivity and Jc of weakly coupled MgB2 particles **Anurag Gupta , Anuj Kumar** and A V Narlikar *Supercond. Sci. Technol. 22 (2009) 105005 (10pp)*
189.	A Novel Nanocomposite Matrix Based on Silylated Chitosan and Multiwall Carban Nanotubes for the Immobilization of Urease **Ashutosh Tiwari** *J Inorg Organomet Polym (2009) 19:361–366*
190.	Novel Nanostructures and Optical Properties of Silver Doped Sodium Phosphate Thin Films **Punita Singh, M Deepa, AK Srivastava, KN Sood, M Kar** *Journal of Nanoscience and Nanotechnology, 9(11)pp. 6637-6642 2009*
191.	Nucleation studies and characterization of potassium thiocyanate added KDP crystals grown by seed rotation technique P.V.Dhanaraj, N.P.Rajesh, C.K.Mahadevan, **G.Bhagavannarayana** *Physica B 404(2009)2503–2508*
192.	On some aspects of tropospheric ozone variability over the Indo-Gangetic (IG) basin, India **Pavan S. Kulkarni, S. L. Jain**, Sachin D. Ghude, **B. C. Aarya**, **P. K. Dubey** and Shahnawaz *International Journal of Remote Sensing Vol. 30, Nos. 15–16, August 2009, 4111–4122*
193.	Optical Investigations of Twist Grain Boundary Phases Exhibiting Cylindrical and Cone-Like Domain Textures Anjuli Khandelwal, **S. S. Bawa**, and Maneesha Yadav *Mol. Cryst. Liq. Cryst., Vol. 511, pp. 59=[1529]–74=[1544], 2009*
194.	Optical properties and mechanical characteristics of transparent nanostructured $Zn_{1-x}Mn_xO$ thin films **M. Deepa, N.Bahadur, A.K.Srivastava,** P.Chaganti**, K.N.Sood** *Journal of Physics and Chemistry of Solids 70(2009)291–297*
195.	Oxidation behavior of green coke-based carbon–ceramic composites incorporating micro- and nano-silicon carbide **Mandeep Kaur, Sandeep Kumar, P. R. Sengupta, V. Raman, G. Bhatia** *J Mater Sci (2009) 44:2128–2136*
196.	Oxygen induced facet formation on Rh(2 1 0) surface **Govind**, Wenhua Chen, Hao Wang, T.E. Madey

	Applied Surface Science 256 (2009) 371–375
197.	Parametric dependence studies on cracking of clay Kanika Pasricha, Uday Wada, **Renu Pasricha**, Satishchandra Ogale *Physica A 388 (2009) 1352-1358*
198.	Phase dependence of secondary electron emission at the Cs-Sb-Si (111) interface **Govind, Praveen Kumar and S.M. Shivaprasad** *Transport and Optical Properties of Nanomaterials 1147, pp.409-414, 2009*
199.	Phonon dynamics of Zn(Mg,Cd)O alloy nanostructures and their phase segregation Manoranjan Ghosh, **Nita Dilawar, A. K. Bandyopadhyay**, and A. K. Raychaudhuri *Journal of Applied Physics 106, 084306 ·2009·*
200.	Photoluminescence and electrical conductivity of silicon containing multilayer structures of diamond like carbon **Neeraj Dwivedi, Sushil Kumar, C.M.S. Rauthan, O.S. Panwar, and P.K. Siwach** *Journal of optoelectronics and adavnced materials 11(11), pp. 1618-1626, 2009*
201.	Photoluminescence and electron paramagnetic resonance studies of springlike carbon nanofibers **Bipin Kumar Gupta, V. Shanker, Manju Arora, and D. Haranath** *Applied Physics Letters 95, 149901 ·2009·*
202.	Photoluminescence and electron paramagnetic resonance studies of springlike carbon nanofibers [Erratum] **Bipin Kumar Gupta, V. Shanker, Manju Arora, and D. Haranath** *Applied Physics Letters 95, 073115 ·2009·*
203.	Pinning and irreversibility in superconducting bulk MgB2 with added nanodiamonds **Anurag Gupta** and A V Narlikar *Supercond. Sci. Technol. 22 (2009) 125029 (8pp)*
204.	Poly (pyrrole-co-N-methyl pyrrole) for application to cholesterol sensor K. Singh, T. Basu, **Pratima R. Solanki, Bansi Dhar Malhotra** *J Mater Sci (2009) 44:954–961*
205.	Poly(3,4-ethylenedioxythiophene) (PEDOT)- Coated MWCNTs Tethered to Conducting Substrates: Facile Electrochemistry and Enhanced Coloring Efficiency **[Erratum]** **Shweta Bhandari, Melepurath Deepa, Avanish Kumar Srivastava, Chhotey Lal,** Rama Kant

	Macromol. Rapid Commun. 2008, 29, ((1959–1964)
206.	Poly(3,4-ethylenedioxythiophene)-Multiwalled Carbon Nanotube Composite Films: Structure-Directed Amplified Electrochromic Response and Improved Redox Activity **Shweta Bhandari, Melepurath Deepa, Avanish Kumar Srivastava, Amish G. Joshi,** and Rama Kant *J. Phys. Chem. B 2009, 113, 9416–9428*
207.	Polyaniline nanotubes for impedimetric triglyceride detection **Chetna Dhand, Pratima. R. Solanki, K.N. Sood,** Monika Datta**, B.D. Malhotra** *Electrochemistry Communications 11 (2009) 1482–1486*
208.	Polyaniline-Cerium Oxide Nano-Composite for Hydrogen Peroxide Sensor **Anees A. Ansari , G. Sumana, R. Khan, and B. D. Malhotra** *Journal of Nanoscience and Nanotechnology Vol. 9, 1–7, 2009*
209.	Polyaniline–MWCNT nanocomposites for microwave absorption and EMI shielding **Parveen Saini,** Veena Choudhary**, B.P. Singh, R.B. Mathur, S.K. Dhawan** *Materials Chemistry and Physics 113 (2009) 919–926*
210.	Polymer electrolytes: characteristics and peculiarities **Shahzada Ahmad** *Ionics (2009) 15:309–321*
211.	Polymer electrolytes: characteristics and peculiarities [**Erratum**] **Shahzada Ahmad** Ionics (2009) 15:323
212.	Polymeric-nanoparticles–induced vertical alignment in ferroelectric liquid crystals **A. Kumar, J. Prakash, P. Goel** , T. Khan, S. K. Dhawan, P. Silotia and **A. M. Biradar** *EPL, 88 (2009) 26003*
213.	Post-polymerization functionalization of poly(3,4-ethylenedioxythiophene) films by 1-fluoro-2-nitro-4-azidobenzene: electrochromism and redox behavior **Shweta Bhandari, Melepurath Deepa, Avanish Kumar Srivastava** and Rama Kant *J. Mater. Chem., 2009, 19, 2336–2348*
214.	Preface: "International Conference on Luminescence and its Applications — ICLA-2008" **Vikram Kumar, Santa Chawla**

	Indian Journal of Engineering & Materials Sciences 16 (3) 143-143 Jun 2009
215.	Preface: "International Conference on Luminescence and its Applications — ICLA-2008" **Vikram Kumar, Santa Chawla** *Indian Journal of Pure & Applied Physics 47 (6) May 2009*
216.	Preparation and characterization of ceramic samples of silver sodium niobate mixed system Om Prakash Nautiyal, S C Bhatt, **R P Pant**, A A Bourai, P K Singh, R Saxena & B S Semwal *Indian Journal of Pure & Applied Physics Vol. 47, April 2009, pp. 282-288*
217.	Preparation and Characterization of HgO and AgO Added La2CaBa2 Cu5 Oz Superconductors Kiran Singh, Rajneesh Mohan, Sudhindra Rayaprol, **Anjana Dogra,** C.L. Prajapat , Shovit Bhattacharya, N.K. Gaur, R.K. Singh *J Supercond Nov Magn (2009) 22: 699–704*
218.	A Process for organic water **Vikram Soni, Ravi Mehrotra**, P. S. Datta and S. Chander *Current Science, Vol. 96, No. 8, 25 April 2009 p.1100-1103*
219.	Proficiency Testing in AC Power and Energy **M.K. Mittal, J.C. Biswas and A.S. Yadav** *MAPAN Vol. 24, No. 1, 2009; pp. 41-66*
220.	Properties and mechanism of solar absorber CdTe thin film synthesis by unipolar galvanic pulsed electrodeposition A. C. Rastogi, **R. K. Sharma** *J Appl Electrochem (2009) 39:167–176*
221.	Quasi-biennial oscillations in spectral aerosol optical depth S. Naseema Beegum, K. Krishna Moorthy, S. Suresh Babu, R. Ramakrishna Reddy, K. Rama Gopal and **Y. Nazeer Ahmed** *Atmos. Sci. Let. 10: 279–284 (2009)*
222.	Real-time wet scavenging of major chemical constituents of aerosols and role of rain intensity in Indian region U.C. Kulshrestha, L.A.K. Reddy, J. Satyanarayana, **Monika J. Kulshrestha** *Atmospheric Environment 43 (2009) 5123–5127*
223.	Recent advances in self-assembled monolayers based biomolecular electronic devices **Sunil K. Aryaa, Pratima R. Solankia,** Monika Datta**, Bansi D. Malhotra**

	Biosensors and Bioelectronics 24 (2009) 2810–2817
224.	Recent developments in urea biosensors **Gunjan Dhawan, Gajjala Sumana, B.D. Malhotra** *Biochemical Engineering Journal 44 (2009) 42–52*
225.	Recent developments of certified reference materials for road transportation Sippy K. Chauhan, **Prabhat K. Gupta**, Anuradha Shukla, S. Gangopadhyay *Environ Monit Assess (2009) 156:407–418*
226.	Relationship between the cathodoluminescence emission and resistivity in In doped CdZnTe crystals J. Rodríguez-Fernández, V. Carcelén, P. Hidalgo, **N. Vijayan**, J. Piqueras, N. V. Sochinskii, J. M. Perez, and E. Diéguez *Journal of Applied Physics 106, 044901 2009*
227.	Remarkable influence on the dielectric and magnetic properties of lithium ferrite by Ti and Zn substitution **Vivek Verma, Vibhav Pandey, V.N. Shukla,** S. Annapoorni**, R.K. Kotnala** *Solid State Communications 149 (2009) 1726-1730*
228.	Role of Surface Adsorbed Anionic Species in Antibacterial Activity of ZnO Quantum Dots Against Escherichia coli **Prachi Joshi**, Soumyananda Chakraborti, Pinak Chakrabarti, **D. Haranath**, **Virendra Shanker**, Z. A. Ansari, Surinder P. Singh, and Vinay Gupta *Journal of Nanoscience and Nanotechnology Vol. 9, 6427–6433, 2009*
229.	Room-temperature ferromagnetism in Li-doped p-type luminescent ZnO nanorods **Santa Chawla, K. Jayanthi, and R. K. Kotnala** *Physical Review B 79, 125204 2009*
230.	Shape and size selective separation of gold nanoclusters by competitive complexation with octadecylamine monolayers at the air–water interface **Renu Pasricha**, **Amit Singh**, Murali Sastry *Journal of Colloid and Interface Science 333 (2009) 380–388*
231.	A Simple experimental method to generate partially coherent optical bottle beam **Swati Raman, B.K.Yadav, N.S.Bisht,** M.Husain**, H.C.Kandpal** *Optics and Lasers in Engineering 47(2009)1282–1285*
232.	Single-Step Synthesis of Sr4 V2 O6 Fe2 As2 : The Blocking Layer Based Potential Future Superconductor **Anand Pal, Arpita Vajpayee, R.S. Meena, H. Kishan, V.P.S.**

	J Supercond Nov Magn (2009) 22: 619–621
233.	Size- and shape-controlled synthesis and properties of colloidal PbSe nanocrystals **Umesh Kumar**, **Shailesh N. Sharma**, **Sukhvir Singh, M. Kar**, V.N. Singh, B.R. Mehta, Rita Kakkar Materials Chemistry and Physics 113 (2009) 107–114
234.	Sol–gel derived nano-structured zinc oxide film for sexually transmitted disease sensor **Anees A. Ansari, Renu Singh, G. Sumana and B. D. Malhotra** *Analyst, 2009, 134, 997–1002*
235.	Sol-Gel Derived Nanostructured Tin Oxide Film for Glucose Sensor **Anees A. Ansari, Pratima R. Solanki, B.D.Malhotra** *Sensor Letters, 7(1), pp. 64-71 2009*
236.	Sol-gel-derived titanium oxide–cerium oxide biocompatible nanocomposite film for urea sensor **Anees A. Ansari, G. Sumana, M.K. Pandey, and B.D. Malhotra** *J. Mater. Res., Vol. 24, No. 5, May 2009*
237.	Some experimental investigation of the effect of railway tunnels on mobile communications in Western India **M. V. S. N. Prasad** & P. K. Dalela *Ann. Telecommun. (2009) 64:247–257*
238.	Spatial and temporal variation of water vapour in upper troposphere and lower stratosphere over Indian region **C. J. Johny**, **S. K. Sarkar** and D. Punyaseshudu *Current Science, VOL. 97, NO. 12, 25 December 2009*
239.	Spatial distribution of aerosol black carbon over India during pre-monsoon season S. Naseema Beegum, K. Krishna Moorthy, S. Suresh Babu, S.K. Satheesh, V. Vinoj, K.V.S. Badarinath, P.D. Safai, P.C.S. Devara, **Sacchidanand Singh**, Vinod, U.C. Dumka, P. Pant *Atmospheric Environment 43 (2009) 1071–1078*
240.	Specific heat and correlation between resistivity and thermoelectric power of GdBa2(Cu1ÀxMnx)3O7Àd HTSC system for x 6 0.02 **Bhasker Gahtori, S.K. Agarwal**, Tirthankar Chakraborty, Ashok Rao, Y.-K. Kuo *Physica C 469 (2009) 27–29*
241.	Spray pyrolysis deposited multiferroic BiFeO3 films **P. K. Siwach**, Jai Singh, **H. K. Singh,** G. D. Varma, and O. N. Srivastava

	Journal of Applied Physics 105, 07D916 ·2009·
242.	Static Expansion Primary Vacuum Standard – Part 1: Determination of the Volume Ratio of the Expansion Stage **Pardeep Mohan and Harish Kumar** *MAPAN Vol. 24, No. 2,2009; pp.101-109*
243.	Static Expansion Primary Vacuum Standard – Part 2: Characterization of Two Spinning Rotor Gauges **Pardeep Mohan and Harish Kumar** *MAPAN Vol. 24, No. 2,2009; pp.111-118*
244.	Status of India in science and technology as reflected in its publication output in the Scopus international database, 1996–2006 B. M. Gupta, **S. M. Dhawan** *Scientometrics, Vol. 80, No. 2 (2009) 475–492*
245.	Status of physics research in India: An analysis of research output during 1993–2001 B. M. Gupta, **S. M. Dhawan** *Scientometrics, Vol. 78, No. 2 (2009) 295–316*
246.	STD sensor based on nucleic acid functionalized nanostructured polyaniline **Renu Singh**, Rachna Prasad, **G. Sumana, Kavita Arora**, Seema Sood, R.K. Gupta **, B.D. Malhotra** *Biosensors and Bioelectronics 24 (2009) 2232–2238*
247.	Structural and magnetic phenomena in Ni53Mn25Al22 thin film prepared by rf magnetron sputtering Vijay Kumar Srivastava, Saurabh Kumar Srivastava, Ratnamala Chatterjee, **Govind Gupta, S. M. Shivprasad**, and A. K. Nigam Applied Physics Letters 95, 114101 ·2009·
248.	Structural and Magnetic Properties of A2−x Bx FeMoO Double Perovskite CMR Systems **R. P. Aloysius, Vibhav Pandey, Vivek Verma, V. P. S. Awana, R. K. Kotnala, and P. C. Kothari** *Sensor Letters Vol. 7, 1–8, 2009*
249.	Structural, optical, photoluminescence and photocatalytic characteristics of sol-gel derived CeO2-TiO2 films **Amita Verma & Amish G Joshi** *Indian Journal of Chemistry Vol. 48A, February 2009, pp. 161-167*

250.	Studies on organic light-emitting diodes based on rubrene-doped zinc quinolate Kanchan Saxena, Dalip Singh Mehta, **Virender Kumar Rai, Ritu Srivastava**, **Gayatri Chauhan, M. N. Kamalasanan**, and V. K. Jain *Phys. Status Solidi A 206, No. 7, 1660 – 1663 (2009)*
251.	Study of Humidity Sensing Property of LiCe Substituted Magnesium Ferrite **R. K. Kotnala, Jyoti Shah, M. C. Mathpal, Devinder Gupta,** L. P. Purohit**, and Hari Kishan** *Sensor Lett. 7, 1051–1056 (2009)*
252.	Study of magnetotransport in double-layered La1.4Ca1.6Mn2O7 manganite: Presence of nano-ferromagnetic domains in paramagnetic matrix Ajai K. Gupta, **Rajesh Kumar**, **Vijay Kumar**, G.L. Bhalla, Neeraj Khare *Journal of Physics and Chemistry of Solids 70 (2009) 117–121*
253.	Study of Sb substitution for Pr in the Pr0.67Ba0.33MnO3 system K.B. Garg, P. Nordblad, M. Heinonen, **N. Panwar**, **V. Sen**, F. Bondino, E. Magnano, E. Carleschi, F. Parmigiani, **S.K. Agarwal** *Journal of Magnetism and Magnetic Materials 321 (2009) 305–311*
254.	Study of silicon solar cell at different intensities of illumination and wavelengths using impedance spectroscopy **Sanjai Kumar, P.K. Singh**, G.S. Chilana *Solar Energy Materials & Solar Cells 93 (2009) 1881–1884*
255.	Substituent Effect on the Optoelectronic Properties of Poly(p-phenylenevinylene) Based Conjugated-Nonconjugated Copolymers Akshaya K. Palai, Sangram K. Rath, **Ritu Srivastava**, **Modeeparampil Narayanan Kamalasanan**, Manoranjan Patri *Journal of Applied Polymer Science, Vol. 112, 2988–2998 (2009)*
256.	Superconducting properties of adipic-acid-doped bulk MgB2 superconductor **Arpita Vajpayee, V P S Awana**, G L Bhalla, P A Bhobe, A K Nigam and **H Kishan** *Supercond. Sci. Technol. 22 (2009) 015016 (7pp)*
257.	Superconductivity at 14 K in SmFe0.9 Co0.1AsO **V.P.S. Awana, Arpita Vajpayee, Anand Pal, Monika Mudge, R.S. Meena, H. Kishan** J Supercond Nov Magn (2009) 22: 623–626
258.	Superconductivity of various borides and the role of carbon in their high performance **V P S Awana, Arpita Vajpayee, Monika Mudgel and H Kishan** Supercond. Sci. Technol. 22 (2009) 034015 (7pp)

259.	Superconductivity of various borides: The role of stretched c-parameter **Monika Mudgel**, **V. P. S. Awana**, **H. Kishan**, I. Felner, Dr. G. A. Alvarez, and G. L. Bhalla Journal of Applied Physics 105, 07E313 ·2009·
260.	Surface plasmon resonance-based DNA biosensor for arsenic trioxide detection **Pratima R. Solanki, Nirmal Prabhakar, Manoj K. Pandey and Bansi D. Malhotra** Intern. J. Environ. Anal. Chem. Vol. 89, No. 1, 15 January 2009, 49–57
261.	Swift heavy ion induced thermoluminescence studies in polycrystalline aluminum oxide K R Nagabhushana, B N Lakshminarasappa, D Revannasiddaiah, **D Haranath &** Fouran Singh *Indian Journal of Engineering & Materials Scirnces Vol. 16, June 2009, pp. 161-164*
262.	Synergistic effect of copolymers composition on the electrochemical, thermal, and electrical behavior of 5-lithiosulphoisophthalic acid doped poly(aniline-co-2-isopropylaniline): synthesis, characterization, and applications **Hema Bhandari**, Veena Choudhary and **S. K. Dhawan** *Polym. Adv. Technol. 2009, 20 1024–1034*
263.	Synthesis and characterization of 9,10-bis(2-phenyl-1,3,4-oxadiazole) derivatives of anthracene: Efficient n-type emitter for organic light-emitting diodes M. Ananth Reddy, Anup Thomas, Kola Srinivas, V. Jayathirtha Rao, K. Bhanuprakash, B. Sridhar, **Arunandan Kumar, M. N. Kamalasanan and Ritu Srivastava** *J. Mater. Chem., 2009, 19, 6172–6184*
264.	Synthesis and Characterization of a Biologically Active Lanthanum(III)– Catechin Complex and DNA Binding Spectroscopic Studies **Anees A. Ansari**, and R. K. Sharma *Spectroscopy Letters, 42:178–185, 200*
265.	Synthesis and Characterization of Highly Fluorescent Water Dispersible ZnO Quantum Dots **Prachi Joshi**, Z. A. Ansari, Surinder P. Singh, and **Virendra Shanker** *Advanced Science Letters Vol. 2, 360–363, 2009*

266.	Synthesis and Characterization of Multiwalled Carbon Nanotubes-Polymethyl Methacrylate Composites Prepared by In Situ Polymerization Method **Shailaja Pande, R.B. Mathur, B.P. Singh, T.L. Dhami** *Polymer Composites Vol: 30 Issue: 9 Pages: 1312-1317 Published: SEP 2009*
267.	Synthesis and characterization of nanostructured (Pb1ZxSrx)TiO3 thin films by a modified chemical route Kuldeep Chand Verma, Amit Kumar Sharma, S.S. Bhatt, **R.K. Kotnala** and N.S. Negi *Philosophical Magazine Vol. 89, No. 27, 21 September 2009, 2321–2332*
268.	Synthesis and characterization of polyaniline–ZnO composite and its dielectric behavior Bhupendra K. Sharma, **Ajai K. Gupta**, Neeraj Khare, **S.K. Dhawan**, H.C. Gupta *Synthetic Metals 159 (2009) 391–395*
269.	Synthesis and Characterization of Proccessible Polyaniline Derivatives for Corrosion Inhibition **Hema Bhandari**, S. Sathiyanaranayan, Veena Choudhary, **S. K. Dhawan** *Journal of Applied Polymer Science, Vol. 111, 2328–2339 (2009)*
270.	Synthesis and Characterization of Sol–Gel Derived PZT Nano Powder Anupama Sachdeva, **Manju Arora**, and R. P. Tandon *Journal of Nanoscience and Nanotechnology Vol. 9, 6631–6636, 2009*
271.	Synthesis and growth of nearly perfect single crystal of l-histidine bromide (LHB) and its structural, optical and electrical characterizations **N. Vijayan**, **G. Bhagavannarayana**, K. Nagarajan, V. Upadhyaya Materials Chemistry and Physics 115 (2009) 656–659
272.	Synthesis and microstructural studies of iron oxypnictide LaO1−x Fx FeAs superconductors Chandra Shekhar, Sonal Singh, **P K Siwach, H K Singh** and O N Srivastava *Supercond. Sci. Technol. 22 (2009) 015005 (5pp)*
273.	Synthesis and optical properties of CdTe nanocrystals with improved optical properties **Kiran Jain, Vibha Srivastava & Abhilasha Chouksey** *Indian Journal of Engineering & Materials Sciences Vol. 16, June 2009, pp. 188-192*
274.	Synthesis of Catalytically Active Porous Platinum Nanoparticles by Transmetallation Reaction and Proposition of the Mechanism **Renu Pasricha**, **Tanushree Bala**, **Ankush V. Biradar**, **Shubhangi Umbarkar**, and Murali

	Sastry *SMALL Volume: 5 Issue: 12 Pages: 1467-1473 Published: JUN 19 2009*
275.	Synthesis of Mn0.2Zn0.8Fe2O4 particles by high energy ball milling and their applications **Nitu Kumar, Vinod Kumar, Manju Arora, Monika Sharma, Bhikham Singh & R P Pant** *Indian Journal of Engineering & Materials Sciences Vol. 16, December 2009, pp. 410-414*
276.	Synthesis of SmFeAsO by an easy and versatile route and its physical property characterization **V. P. S. Awana,Anand Pal, Arpita Vajpayee, H. Kishan**, G. A. Alvarez, K. Yamaura, and E. Takayama-Muromachi *Journal of Applied Physics 105, 07E316 ·2009·*
277.	Synthesis, growth and structural perfection of nonlinear optical material of glycine hydrofluoride (GHF) **N. Vijayan, G. Bhagavannarayana, S. N. Sharma**, Subhasis Das *J Mater Sci (2009) 44:3457–3461*
278.	Synthesis, growth, and characterization of a non-linear optical crystal-glycine lithium chloride M. Lenin, **G. Bhavannarayana**, P. Ramasamy *Optics Communications 282 (2009) 1202–1206*
279.	Synthesis, growth, optical, dielectric and thermal studies of lithium hydrogen phthalate dihydrate crystals A. Senthil, P. Ramasamy, **G. Bhagavannarayana** *Journal of Crystal Growth 311 (2009) 2696–2701*
280.	Synthesis, growth, spectral, thermal, mechanical and optical properties of 4-chloro-4 dimethylamino-benzylidene aniline crystal: A third order nonlinear optical material S. Leela, K. Ramamurthi, **G. Bhagavannarayana** *Spectrochimica Acta Part A 74 (2009) 78–83*
281.	Synthesis, growth, structural, spectroscopic, optical, thermal and mechanical studies of a semi-organic nonlinear optical crystal: l-glutamic acid hydrochloride K. Selvaraju, K. Kirubavathi, **N. Vijayan** And S. Kumararaman *Modern Physics Letters B, Vol. 23, No. 6 (2009) 861{869*
282.	Synthesis, growth, thermal, optical and mechanical properties of new organic NLO crystal: L-alanine DL-malic acid D. Jaikumar, S. Kalainathan, **G. Bhagavanarayana**

	Journal of Crystal Growth 312 (2009) 120–124
283.	Temporal evolution of measured climate forcing agents at South Pole, Antarctica Sachin D. Ghude, **S. L. Jain, and B. C. Arya** *Current Science, Vol. 96, No. 1, 10 January 2009*
284.	Theme: Optical Metrology **Preface** Klaus D.Stock, H.C. Kandpal *MAPAN Vol. 24, No. 3, 2009; p. 141*
285.	Theme: Vacuum Metrology **Preface** Jay H. Hendricks, Pardeep Mohan *MAPAN Vol. 24, No. 2, 2009; p. 75*
286.	Thermal hysteresis in electrical transport of charge ordered La0.5 Ca0.5 MnO3 manganites **V.P.S. Awana, Rahul Tripathi**, S. Balamurugan, **Anuj Kumar, Anjana Dogra, H. Kishan** *Journal of Alloys and Compounds 475 (2009) L13–L16*
287.	Thermal stability studies of 5-fluorouracil using diffuse reflectance infrared spectroscopy **Parul Singh, Gunjan Tyagi, Ranjana Mehrotra** and A. K. Bakhshi *Drug Test. Analysis 2009, 1, 240–244*
288.	Traceability in force measurements from the center to the regional laboratories **S.S.K.Titus, Anil Kumar, H.N.P.Poddar, S.K.Jain, Kamlesh K. Jain** *XIX IMEKO world congress: fundamental and applied metrology, proceedings (19th IMEKO World Congress, Sep 06-11, 2009 Lisbon, Portugal) Pages: 1196-1198 Published: 2009*
289.	Tunable Nanostructures and Crystal Structures in Titanium Oxide Films **A. K. Srivastava, M. Deepa, S. Bhandari,** H. Fuess *Nanoscale Res Lett (2009) 4:54–62*
290.	Ultraviolet radiation emitted by compact fluorescent lamps **Parag Sharma, V. K. Jaiswal1 and H. C. Kandpal** *MAPAN Volume 24, Number 3 / p. 183-191 September, 2009*
291.	Unambiguous evidence for magnetoelectric coupling of multiferroic origin in 0.73BiFeO3 – 0.27PbTiO3 Shuvrajyoti Bhattacharjee, **V. Pandey, R. K. Kotnala**, and Dhananjai Pandey *AppliedPhysics Letters 94, 012906 ·2009·*
292.	Vacuum-Deposited Poly(o-phenylenediamine)/WO3 . nH2O Nanocomposite Thin Film for NO2

	Gas Sensor **Ashutosh Tiwari,** and Songjun Li *Polymer Journal, Vol. 41, No. 9, pp. 726–732, 2009*
293.	Validation of RF Power Standard in the Frequency Range of 100 MHz to 18 GHz by an Inter Laboratory Data Comparison **Saood Ahmad, Ritander Aggarwal, Bijendra Pal, A.K. Govil and P. Banerjee** *MAPAN Vol. 24, No.4, 2009; pp. 247-253*
294.	White organic light-emitting diodes based on blue fluorescent bis(2-(2-hydroxyphenyl)benzoxazolate)zinc [Zn(hpb)2] doped with DCM dye **Virendra Kumar Rai, Ritu Srivastava, M.N. Kamalasanan** *Synthetic Metals 159 (2009) 234–237*
295.	XPS depth-profile of the suboxide distribution at the native oxide/Ta interface **Manika Khanuja, Himani Sharma**, B.R. Mehta, **S.M. Shivaprasad** *Journal of Electron Spectroscopy and Related Phenomena 169 (2009) 41–45*
296.	XPS investigation of ion beam induced conversion of GaAs(0 0 1) surface into GaN overlayer **Praveen Kumar, Mahesh Kumar, Govind** , B.R. Mehta, S.M. Shivaprasad *Applied Surface Science 256 (2009) 517–520*
297.	Zinc oxide–potassium ferricyanide composite thin film matrix for biosensing applications Shibu Saha, **Sunil K. Arya**, S.P. Singh, K. Sreenivas, **B.D. Malhotra**, Vinay Gupta *Analytica Chimica Acta 653 (2009) 212–216*
298.	A ZnO/PEDOT:PSS based inorganic/organic hetrojunction Bhupendra K. Sharma, Neeraj Khare, **Shahzada Ahmad** *Solid State Communications 149 (2009) 771-774*
299.	ZnS and DDT (dodacanthiol-1) capping in CdSe nanoparticles Radheshyam Rai, Abhilasha Srivastava, **Kiran Jain** *Sensors and Actuators B 138 (2009) 304–309*

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