

Year 2011

1	LPG sensing behavior of poly (o-anisidine)-tin oxide nanocomposite DEWYANI PATIL, KISHOR KOLHE AND PRADIP PATIL J. APPL. PHYS., 110 (2011) 124501.
2	Synthesis of nanostructured Cu xS thin films by chemical route at room temperature and investigation of their size dependent physical properties A.U. UBALEA, D.M. CHOUDHARIA, J.S. KANTALEA, V.N. MITKARIA, M.S. NIKAMA, W.J. GAWANDEA, P.P. PATIL JOURNAL OF ALLOYS AND COMPOUNDS 509 (2011) 9249
3	A rapid response humidity sensor based on poly (2, 5-dimethoxyaniline)-tin oxide nanocomposite DEWYANI PATIL AND PRADIP PATIL SENSOR LETTERS 9 (2011) 1298.
4	Inhibition of nickel coated mild steel corrosion by electrosynthesized Polyaniline coatings SUDESHANA CHAUDHARI AND P. P. PATIL ELECTROCHIMICA ACTA 56 (2011) 3049.
5	Highly sensitive and selective LPG sensor based on α -Fe 2O ₃ nanorods DEWYANI PATIL, VIRENDRA PATIL AND PRADIP PATIL SENSORS AND ACTUATORS B: CHEMICAL 152 (2011) 299.
6	Nanostructured spinel ZnCo 2O ₄ for the detection of LPG, DEWYANI PATIL, VIJAYANAND SUBRAMANIAN, PATTAYIL A. JOY, HARI S. POTDAR, PRADIP PATIL SENSORS AND ACTUATORS B : CHEMICAL 152 (2011) 121.
7	R.S. Dubey, D.K. Gautam Porous Silicon Layers Prepared By Electrochemical Etching For Application In Silicon Thin Film Solar Cells Superlattices And Microstructures Volume 50, Issue 3, September 2011 ISSN: 0749-6036 IMPACT FACTOR 1.487
8	Jaspal P. Bange, L. S. Patil And D. K. Gautam Comparison Of TiO ₂ -Doped SiO ₂ Films From Two Organosilicon Precursors <i>Proc. SPIE</i> 7986, Passive Components And Fiber-Based Devices VII, 79860S (January 19, 2011); ISSN (Printed): 0277-786X. ISSN (Electronic): 1996-756X. H FACTOR 84
9	Prabha Kasaliwal, B.P.Patil, And D.K.Gautam Performance Evaluation Of Squaring Operation By Vedic Mathematics IETE Journal Of Research, Vol.5 (2011) ISSN 0377-2063 IMPACT FACTOR 0.2
10	R.S. Dubey And D.K. Gautam Synthesis And Characterization Of Porus Silicon Layers For 1D Photonic Crystal Applications Int. Journal Of Light And Electron Optics, Optik, Vol. 122 (2011) ISSN: 0030-4026 IMPACT FACTOR 0.526
11	Pravin M. Tirmali, Anil G. Kahirnar, Bhavana N. Joshi and Ashok M. Mahajan, "Structural and electrical characteristics of RF-sputtered HfO ₂ high-k based MOS capacitors", Solid state Electronics, 62 (2011), 44-47, IF- 1.39.
12	A.M. Mahajan, Anil G. Khairnar, Brian J. Thibeault, "Pt-Ti/ALD-Al ₂ O ₃ /p-Si MOS capacitors for future ULSI technology", Journal of Nano-and Electronic Physics 3 (2011), 647-650.
13	Yogesh S. Mhaisagar, Bhavana N. Joshi, and A. M. Mahajan "Deposition and surface modification of low-k thin films for ILD application in ULSI circuits", , Journal of Nano- and Electronic Physics 3 (2011), 99-103,
14	Bhavana N. Joshi, Yogesh S. Mhaisagar and Ashok M. Mahajan, "Analysis of

	interconnect capacitance for sub nano CMOS technology using the low dielectric material”, <i>Microelectronics Reliability</i> , 51 (2011) 953–958, IF-1.16.
15	B.K. Sonawane, Vrushali Shelke, M.P. Bhole, D.S. Patil, “Structural, optical and electrical properties of cadmium zinc oxide films for light emitting devices” <i>Journal of Physics and Chemistry of Solids</i> , 72 (2011) 1442–1446. (Impact Factor: 1.527) (Cited by 3)
16	Kanchan Talele, E. P. Samuel, D. S. Patil, “Analysis of carrier transport properties in GaN/Al _{0.3} Ga _{0.7} N Multiple Quantum well nanostructures”, <i>Optik-International Journal for Light and Electron Optics</i> , 122 (2011) 626–630. (Impact Factor: 0.524) (Cited by 2)
17	Synthesis and Characterization of Nanocrystalline TiO ₂ by Sol-Gel Combustion Method, Sanjay S. Ghosh, Bharat V. Dhaduk, Mangesh V. Patil, Sandesh R. Jadker and Jaydeep V. Sali, <i>Invertis Journal of Renewable Energy</i> , 1(3) (2011) 138
18	Jaspal Parganram Bange, Mayank Kumar Singh, Kazusa Kano, Kenta Miura and Osamu Hanaizumi, “Structural analysis of RF sputtered Er doped Ta ₂ O ₅ films”, <i>Journal of Key Engineering Materials</i> , Vol. 459, 2011, 32-37 (Impact Factor 0.340).
19	Enhanced Ferroelectric and Dielectric Properties of BiFe _{0.95} Zn _{0.05} O ₃ Multiferroic Ceramics by Solution Combustion Method (SCM), <i>Yogesh A. Chaudhari, Prashant P. Jagtap, Ebrahim M. Abuassaj, Pramod B. Patil and Subhash T. Bendre, Archives of Physics Research</i> , 2(3), 60-66 (2011)
20	Effect of Processing Parameters on the Improvement of Ferroelectric and Dielectric Investigations in BiFeO ₃ Multiferroic Ceramics, <i>Yogesh A Chaudhari and Subhash T Bendre, nvertis Journal of Renewable Energy</i> , 1 (4), 207-213 (2011)
21	Ferroelectric and Dielectric Properties of BiFe _{0.5} Zn _{0.05} O ₃ Ceramics by Solution Combustion Method (SCM), <i>Yogesh Chaudhari, Amrita Singh, Pramod Patil, Prashant Jagtap, Ebrahim Abuassaj, Ratnamala Chatterjee and Subhash Bendre, Proceedings of International Conference on Nano Science, Engineering and Advanced Computing (ICNEAC – 2011)</i> , 186-188 (2011), ISBN-978-81-8465-683-1
22	“Synthesis of single crystalline CdS nanocombs and their application in photo-sensitive field emission switches” Padmakar G. Chavan, Satish S. Badadhe, Imtiaz S. Mulla, Mahendra A. More and Dilip S. Joag, <i>Nanoscale</i> 3, (2011), 1078 (I.F. = 5.91, cited: 9).
23	“Enhanced Field Emission From SnO ₂ :WO _{2.72} Nanowire Heterostructure” D. R. Shinde, Padmakar G. Chavan, Shashwati Sen, Dilip S. Joag, Mahendra A. More, S. C. Gadkari, S. K. Gupta, <i>ACS Appl. Mater. & Interfaces</i> 3, (2011) 4730 (I.F. = 4.52).
24	“Controlled Growth of Well-Aligned GaS Nanohornlike Structures and Their Field Emission Properties” Godhuli Sinha, Subhendu K. Panda, Anuja Datta, Padmakar G. Chavan, Deodatta R. Shinde, Mahendra A. More, D. S. Joag, and Amitava Patra, <i>ACS Appl. Mater. Interfaces</i> 3, (2011), 2130 (I.F. = 4.52).
25	“Photo-enhanced field emission study of TiO ₂ nanotubes array” Padmakar G. Chavan, Sugat V. Shende, Dilip S. Joag, Mahendra A. More, <i>Ultramicroscopy</i> 111 (2011), 415.
26	“Field Emission and Photo-Enhanced Field Emission Investigations of CdS Nanowires Array” Padmakar G. Chavan , Satish S. Badadhe, Imtiaz S. Mulla, Mahendra A. More and Dilip S. Joag, <i>IEEE</i> , ISBN: 978-1-4244-8662-5, DOI 10.1109/IVEC.2011.5746893, (2011).

27	<p>“Extremely stable field emission and photo-sensitive field emission from single crystalline CdS nanowires” Padmakar G. Chavan, Satish S. Badadhe, Imtiaz S. Mulla, Mahendra A. More and Dilip S. Joag, <i>IEEE</i>, ISBN: 978-1-4577-1243-2, (2011).</p>
28	<p>Anti T7 Immobilized Single Conducting Polypyrrole Nanowire for Phage Detection D J Shirale International Journal of Mechanical Engineering Research. Volume 1, No. 1, 59-63 (2011) (IF:-)</p>
29	<p>Single Conducting Polymer Nanowire Based Sequence-Specific, Base-Pair-Length Dependent Label-free DNA Sensor, MA Bangar, DJ Shirale, HJ Purohit, W Chen, NV Myung, A Mulchandani, <i>Electroanalysis</i> 23 (2), 371-379 (2011) (IF:2.721)</p>
30	<p>p-PEDOT: PSS as a heterojunction partner with n-ZnO for detection of LPG at room temperature., R. D. Ladhe, S. M. Pawar, K. V. Gurav. J. H. Kim and B. R. Sankapal, <i>Journal of Alloys and Compounds</i>, 515 (2011) 80–85 Impact Factor 2.39 Room temperature chemical synthesis of highly oriented PbSe nanotubes based on negative free energy of formation., R. D. Ladhe, D. B. Salunkhe, P. K. Baviskar, V. Gupta, S. Chand, B. R Sankapal, <i>Journal of Alloys and Compounds</i> 509 (2011) 10066-10069 Impact Factor 2.39</p>
31	<p>Room temperature chemical synthesis of highly oriented PbSe nanotubes based on negative free energy of formation B R Sankapal, R D Ladhe, D B Salunkhe, P K Baviskar, V Gupta, & S Chand, <i>Journal of Alloys & Compounds</i> 509 (2011) 10066-10069.</p>