School of Physical Sciences

Publication List

Prof. P. P. Patil

(Number of Citations : 1249, h index : 19, i10- index : 44)

1. High performance H2 sensor based on ZnSnO 3 cubic crystallites synthesized by a hydrothermal method PARMESHWAR WADKAR, DIPAK BAUSKAR AND PRADIP PATIL ,TALANTA 105 (2013) 327.
2. A study on the electrochemical polymerization, characterization, and corrosion protection of o-toluidine on steel J. SOLID STATE ELECTROCHEM. 17 (2013) 29.
3. Investigation on role of monomer(s) during electrochemical polymerization of aniline and its derivatives on low carbon steel by XPS VANDANA P. SHINDE, PRADIP P. PATIL ELECTROCHIM. ACTA 78 (2012) 483.
4. Synthesis and humidity sensing properties of ZnSnO 3 cubic crystallites DIPAK BAUSKAR, B. B. KALE AND PRADIP PATIL SENSORS AND ACTUATORS B: CHEMICAL 161 (2012) 396.
5. LPG sensing behavior of poly (o-anisidine)-tin oxide nanocomposite DEWYANI PATIL, KISHOR KOLHE AND PRADIP PATIL J. APPL. PHYS., 110 (2011) 124501.
6. 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
7. A rapid response humidity sensor based on poly (2, 5-dimethoxyaniline)-tin oxide nanocomposite DEWYANI PATIL AND PRADIP PATIL SENSOR LETTERS 9 (2011) 1298.
8. Inhibition of nickel coated mild steel corrosion by electrosynthesized Polyaniline coatings SUDESHANA CHAUDHARI AND P. P. PATIL ELECTROCHIMICA ACTA 56 (2011) 3049.
9. Highly sensitive and selective LPG sensor based on α-Fe 2O3 nanorods DEWYANI PATIL, VIRENDRA PATIL AND PRADIP PATIL SENSORS AND ACTUATORS B: CHEMICAL 152 (2011) 299.
10. Nanostructured spinel ZnCo 2O4 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.
11. Electrodeposition of poly (o-toluidine) coatings on brass from aqueous salicylate solution and its corrosion protection performance DEWYANI PATIL AND P. P. PATIL JOURNAL OF APPLIED POLYMER SCIENCE 118 (2010) 2084.
12. Inhibition of steel corrosion by electrosynthesized poly (o-anisidine) dodecylbenzenesulfonate coating SUDESHANA CHAUDHARI AND P. P. PATIL ELECTROCHIMICA ACTA 55 (2010) 6715.
13. Poly(o-anisidine)-tin oxide nanocomposite : Synthesis, characterization and application to humidity sensing DEWYANI PATIL, YOU-KYONG SEO, YOUNG KYU HWANGAND PRADIP PATIL SENSORS AND ACTUATORS B : CHEMICAL 148 (2010) 41.
14. Highly sensitive and fast responding CO sensor based on Co 3O4 nanorods DEWYANI PATIL, VIJAYANAND SUBRAMANIAN, PATTAYIL A. JOY, HARI S. POTDAR, PRADIP PATIL TALANTA 81 (2010) 37.
15. Synthesis and corrosion protection aspects of poly(o-toluidine)/CdO nanoparticle composite coatings on mild steel SUDESHANA CHAUDHARI, A. B. GAIKWAD AND P. P. PATIL JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH 7 (2010) 119.
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17. CO gas sensing properties of screen printed SnO 2 thick films R. S. KHADAYATE and P. P. PATIL J. OPTOELECTRONICS AND ADVANCED MATERIALS, 12 (2010) 1338.
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19. Synthesis aspects and humidity sensing characteristics of polyaniline/BaTiO 3 composites PRADIP PATIL, YOU-KYONG SEO, YOUNG KYU HWANG AND JONG-SAN CHANG, J. NANOSCIENCE AND NANOTECHNOLOGY, 9(2009)318.

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Prof. D. K. Gautum

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Dr. J. V. Sali

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Dr. J. P. Bange

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1. Poly(o-toluidine) coatings on stainless steel : Synthesis and corrosion protection study
   Vandana Shinde and P.P.Patil.
   Presented orally in Fourteenth National Congress on Corrosion Control, Hydrabad; organized by NATIONAL CORROSION COUNCIL OF INDIA, (NCCI) Karaikud 630006. In collaboration with CENTRAL ELECTROCHEMICAL RESEARCH INSTITUTE, (Council of Scientific & Industrial Research) Karaikudi and INDIAN INSTITUTE OF CHEMICAL TECHNOLOGY, (Council of Scientific & Industrial Research), Hyderabad held at Green Park, Begumpet, Hyderabad, 18 – 20 September 2008.
2. Corrosion protection of low carbon steel by poly (o- toluidine) electrosynthesized from tartrate solution
   VandanaShinde, S.R. Sainkar, P.P.Patil.
   presented orally in Eleventh National Conference for Electochemists (NCE- 11) organized by SAEST and CERI (Karaikudi) held at Bishop Heber Collage, Truchirapalli, (Tamil nadu) at 26-27, December 2003.

International Conferences attended and presented:

1. Evaluation of corrosion protection performance of poly(o-ethyl aniline) coated copper by electrochemical impedance spectroscopy
   VandanaShinde and P.P.Patil
   Poster presented in SAMPADA 2008 - 2nd *International Symposium* on Advanced Materials And Polymers For Aerospace, Pune; organized by University of Pune, INDIA; Advanced Polymer Research & Technologies, PA, USA; National Chemical Laboratory (NCL), Pune, INDIA; Air Force Research Laboratory (AFRL/ML), Wright-Patterson AFB, OH, USA; Office of Naval Research Global (ONRG), US Department of Navy, USA; Held at YASHADA - MDC Auditorium, Raj Bhavan Complex, Pune-411007, (Maharashtra) INDIA ; 8 – 12 , December 2008.
2. Poly(o-toluidine) as a conducting polymer coating on metal substrates : Synthesis, characterization and corrosion study
   VandanaShinde and P.P.Patil
   Orally presented in International Conference MEMS and Optoelectronics Technologies (ICMOT-2010) held at Swarnadhara college of engineering, Narasapur (Andhra Pradesh) , organized by Swarnadhara college of engineering, Narasapur (Andhra Pradesh) with collaboration International Accreditation Council of Quality Education (IACQER) during 22-23 Jan. 2010.

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1. Corrosion protection of low carbon steel by poly (o- methylaniline).
   Vandana Shinde and P.P.Patil.
   presented orally in C.V.RAMAN SEMINOR organized by North Maharashtra University , Jalgaon and University Grant Commission , New Delhi held at Senate Hall of North Maharashtra University (Jalgaon); at 28, February 2004.
2. Poly (o- toluidine) coatings on metal substrates: Synthesis and Corrosion protection performance.
   Vandana Shinde and P.P.Patil.
   presented orally in C.V.RAMAN SEMINOR organized by North Maharashtra University , Jalgaon and University Grant Commission , New Delhi held at Senate Hall of North Maharashtra University (Jalgaon); at 28, February 2005.
3. Poly(o-toluidine) coatings on copper : Electrochemical synthesis from aqueous media
   Vandana Shinde and P.P.Patil.
   presented orally in C.V.RAMAN SEMINOR organized by North Maharashtra
   University , Jalgaon and University Grant Commission , New Delhi held at Senate Hall of North Maharashtra University (Jalgaon); at 28, February 2006
4. Poly(o-toluidine) coatings on stainless steel: synthesis and corrosion protection study
   Vandana Shinde and P.P.Patil.
   presented orally in C.V.RAMAN SEMINOR organized by North Maharashtra University , Jalgaon and University Grant Commission , New Delhi held at Senate Hall of North Maharashtra University(NMU) (Jalgaon); at 28, February 2007.

5. Poly(o-toluidine) coatings on 304 stainless steel
   Vandana Shinde and P.P.Patil.
   presented orally in National Seminar 'Resent trends in electronic devices' organized by North Maharashtra University , Jalgaon and University Grant Commission , New Delhi held at Department of Physics, North Maharashtra University (NMU) (Jalgaon); at, 26 March, 2007

National Conferences/ Research Festivals/ Workshops/ Programme attended:

1. National seminar 'Resent Trends in Material Science (RTMS)' organized by Department of Physics, North Maharashtra University , Jalgaon and University Grant Commission , New Delhi held at Department of Physics, during 24-25
   March, 2006.
2. University level research festival, AVISHKAR – 2006; organized by North Maharashtra University (NMU) (Jalgaon); 15-16 December, 2006.
3. One day Workshop on Acquaintance Programme of IUAC, organized by Department of Physics, North Maharashtra University (NMU) (Jalgaon); and Inter University Accelerator Centre (IUAC) New Delhi, at NMU on 30 April 2008.
4. A special programme on "Health and Education for Woman" on the occasion of International Woman Day, organized by Vigyan Prasar (VP), government of India , New Delhi through the EduSat Satellite Interactive terminal (SIT) at Rajiv Gandhi Science and Technology Commission (RGS & TC), Department of Physics, North Maharashtra University (NMU) (Jalgaon), on 10 March 2010.
5. UGC-SAP Sponsored National conference on Materials and Devices for Future Technology held at School of Physical Sciences, North Maharashtra University (NMU) (Jalgaon); on 7 March 2011.

Dr. R. D. Ladhe
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