

VPS Personal data

1. **Full Name:** Dr. Vandana Padmakar Shinde
2. **Educational qualifications:** M.Sc. (Physics with specialization in Material Science), Ph. D.
3. **Area of Research/Expertise:** Material Science/ Electrochemistry, Conducting polymers
4. **Awards /Fellowships /Prizes received:**



Awards / Prizes:

- i) **'ANNAPURNA AWARD'** (Silver medal and certificate) in year 2005, given by Society for Advancement of Electrochemical Science and Technology (SAEST) & Central Electrochemical research Institute (CERI); KARAIKUDI (Tamilnadu); for the Best Publication in the field "Corrosion and Prevention method".
- ii) **First prize in Oral** in Raman Memorial Seminar (RMS) year 2007, organized by NMU, Jalgaon.

Fellowships:

1. Research fellowship through the Chief Minister's fund as "Dhanaji Nana fellowship" in year 2001-2003
2. Project assistant fellowship by BRNS, DAE, Mumbai, in 2005 (7 month)

5. Contact Information:

Present address: Department of Physics,
North Maharashtra University,
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6. **Present Occupation:** Lecturer
Department of Physics,
North Maharashtra University, Jalgaon - 425001.
7. **Teaching experience :** 3 semesters (M.Sc. Physics) (contributory basis) 7 years at postgraduates levels (M.Sc. Physics)

8. **Subjects taught till date:** Atomic and Molecular Physics,
Experimental methods and data analysis,
Elements of Material Science,
Material synthesis methods,
Solid State Physics,
Special materials
Techniques for Material Characterizations
Computational methods for Physics,
Classical Mechanics,
Semiconductor Physics,
General laboratory I and II (Above all whole)
- Quantum mechanics, Statistical mechanics and
Mathematical Methods for Physics (Partially)
9. **Sponsored Projects Undertaken:** VCRMS (Minor Project) sanctioned by NMU,
2013-15 (ongoing)

10. **List of Publications: International publications:**

1. A study on the electrochemical polymerization, characterization, and corrosion protection of o-toluidine on steel
VANDANA P. SHINDE AND PRADIP P. PATIL
J Solid State Electrochemistry 17 (2013), 29-41. (IF=2.131)
2. Investigation on role of monomer(s) during electrochemical polymerization of aniline and its derivatives on low carbon steel by XPS
VANDANA P. SHINDE AND PRADIP P. PATIL ELECTROCHIMICA ACTA, 78 (2012), 483-494. (IF= 3.832)
3. Evaluation of corrosion protection performance of poly(o-ethylaniline) coated copper by electrochemical impedance spectroscopy
VANDANA SHINDE AND PRADIP. P. PATIL MATER. SCI. AND ENGG.; 168 (2010), 142. (IF= 1.568)
4. Synthesis and corrosion protection study of poly (o-ethylaniline) coatings on copper VANDANA SHINDE, A. B. GAIKWAD AND P. P. PATIL SURFACE AND COAT. TECHNOL.; 202 (2008), 2591. (IF=1.867)
5. Synthesis and characterization of corrosion protective poly (2,5- dimethyl aniline) coatings on copper
VANDANA SHINDE, A. B. GAIKWAD AND P. P. PATIL APPLIED SURFACE SCI., Vol. 253, 3 (2006), 1037-1045. (IF= 2.103)
6. Synthesis of corrosion inhibitive poly (2,5 – dimethylaniline) coatings on low carbon steel
VANDANA SHINDE, S.R. SAINKAR, S.A. GANGAL AND P. P. PATIL JOURNAL OF MATERIAL SCI., 41 (2006) 2851-2858. (IF= 1.87)

7. Poly(o-toluidine) coatings on copper : Electrochemical synthesis from aqueous media
VANDANA SHINDE, A. B. MANDALE, K. R. PATIL, A.B. GAIKWAD AND P. P. PATIL
SURFACE AND COAT. TECHNOL.; 200 (2005), 5494- 5109. (IF= 1.867)
8. Corrosion protection of low carbon steel by poly(o-toluidine) electrosynthesized from tartarate solution.
VANDANA SHINDE, S.R. SAINKAR AND P. P. PATIL Transactions of SAEST; 40, (2005) 81-87. (IF= 1.00)
9. Corrosion protective poly(o-toluidine) coatings on copper VANDANA SHINDE, S.R. SAINKAR AND P. P. PATIL CORROSION SCI. 47, (2005) 1352. (IF= 3.734)
10. Electrochemical synthesis and corrosion protection properties of poly(o-toluidine) coatings on low carbon steel
VANDANA SHINDE, S.R. SAINKAR AND P. P. PATIL J. APPL. POLYM. SCI. 96 (3), 685 (2005). (IF= 1.20)
11. Electrochemical polymerization of 2,5-dimethylaniline on low carbon steel. VANDANA SHINDE, S. CHAUDHARI, S. R. SAINKAR AND P.P. PATIL MATER.CHEM. AND PHYS., 82(3), 622 (2004). (IF= 2.234)
12. Poly(o-toluidine) coatings on low carbon steel : Synthesis and characterization. VANDANA SHINDE AND P.P. PATIL
MATER.SCI. AND TECHNOL. 19, 1603 (2003). (IF= 1.00)

National Conferences attended and presented:

1. Poly(o-toluidine) coatings on stainless steel : Synthesis and corrosion protection study
VandanaShinde and P.P.Patil.

Presented orally in Fourteenth National Congress on Corrosion Control, Hyderabad; 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 Electrochemists (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.

University level Seminars attended and presented:

1. Corrosion protection of low carbon steel by poly (o- methylaniline).
VandanaShinde 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.
VandanaShinde 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
VandanaShinde 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
VandanaShinde 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
VandanaShinde 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.

11. Citation Index (h): 8

12. Number of Citation till date: 213