

FACULTY PROFILE



Dr. Purushottam Desai

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Designation: Assistant Professor

Educational Qualification: M.Sc. (Organic Chemistry), Ph.D.

Experience in Years: 7 Years

Research Area: Material Science, Catalysis

Professional Memberships:

Society	Membership No.
Life Member, The Indian Society for Technical Education	

Subject Taught: Practical Chemistry, Industrial chemistry, Engineering Metallurgy, Applied Science, Basic Science and Engineering Chemistry.

Professional Development

Workshop/ Conference/ STTP/FDP Attended:

- “BaSnO₃ & Au-BaSnO₃ nanorods: Application as a Co gas sensor”. P.A.Desai, M. S. Bapat, Anjali. A. Athawale, Advanced Nanomaterials (ANM) ,Indian Institute of technology (IIT) , Mumbai, 8-10th Jan.2007.
- “Hydroxide directed route to synthesize nano sized cubic ceria (CeO₂)” P.A.Desai, M.S.Bapat, Anjali. A. Athawale, International Conference on Nanomaterials and its Applications (ICNA) , National Institute of Technology (NIT), Tiruchy, 4-6 Feb. 2007.
- Participation in 18thAGM, Materials Research Society of India (MRSI) theme symposium materials for energy generation, conservation and storage, February-12-14,2007.

- 9th Orientation programme on catalysis, Indian Institute of Technology (IIT), 17th Nov.2008- 8th Dec.2008, Chennai.
- Workshop participation on “Nano world 2008 on 22 March 2008.
- “Hydroxide directed novel routes to synthesize nanosized cubic ceria (CeO₂) in oral session, Advances in Chemistry at Department of Chemistry, University of Pune, March 20-21,2008.
- “Nanocrystalline lanthanum perovskites by microwave combustion synthesis” presented a poster, Symposium on Nanomaterial’s and their Applications”, Fergusson college Pune , 4-6th March 2009.
- “Nanocrystalline lanthanum manganite by microwave combustion synthesis” presented a poster, Seminar on “Recent trends in chemistry”, University of Pune , 13th March 2009.
- Microwave combustion synthesis of lanthanum chromite” P.A.Desai, Anjali.A.Athawale, 7th International High Energy Materials Conference and Exhibit (HEMSI) , High Energy Materials Research Laboratory (HEMRL), Pune 8-10th Dec.2009.
- “Nanocrystalline lanthanum Manganite by microwave combustion synthesis”, P. A. Desai, and Anjali. A. Athawale , National Symposium on Nanomaterials and it’s Applications”, (SNMA), Pune 4-6 th March 2009.
- “Studies on lanthanum chromite synthesized by microwave combustion method”, P. A. Desai, Anjali. A. Athawale, International Conference on Emerging Trends in Chemistry, University of Pune, 5-7th Jan. 2010.
- “Synthesis of lanthanum chromite by microwave combustion route” P. A. Desai, Anjali. A. Athawale, (IYCHEM) University of Pune, 2011.
- “Bimetallic Nanoperovskites for Solvent free Aqueous phase Oxidation of Ethylbenzene” P.A.Desai, Anjali. A. Athawale, International Conference on Advanced Nanomaterials and Nanotechnology, Department of Physics, Center for Nanotechnology (ICANN) 8-10th 2011 Guwahati.
- One day workshop on “ Next two decades of chemical sciences and technology” Maharashtra academy of sciences, Department of Chemistry, University of Pune at National Chemical Laboratory, Pune on September 23,2011.
- Research students seminar presented a paper (oral) entitled “Synthesis of lanthanum perovskites by combustion route”, Department of Chemistry, University of Pune, on march 25,2011.
- Workshop on chromatographic techniques conducted from 30 september to 2 october 2011 held at Department of Chemistry, University of Pune.
- Training workshop “Linux:: an introduction”, Centre for modelling and simulation , University of Pune ,18 September 2011.
- “Material Synthesis, Nanomaterials & Conducting Polymer for Sensor and Catalytic Applications” has attended/presented a poster,1st CRSI zonal meeting ,13-14 May-2011, National Chemical Laboratory, Pune (India).
- Participation in Impact of chemistry on nanotechnology ,(i-CNT-2013) ,Royal society of Chemistry (UK)-West India section and Dept of Applied Chemistry, Defence Institute of Advanced Technology(Deemed Univesity) RSC-DIAT-Industry Meet, October 28-29,2013.
- One day faculty development programme " FDP" Suman Ramesh Tulsaini Technical Campus,

- Khamshet Pune -410405 , 28/9/2015.
- 12/7/2016- 13/7/2016.
- Faculty development programme " FDP" at Vishwakarma Institute of Information Technology,
 - 12/7/2016- 13/7/2016.
- Faculty development programme " FDP" at MSBTE (MIT) Pune- 3/7/2017.
- NPTEL online certification course in Analytical Chemistry July-Oct 2017 (12 weeks course) IIT
 - Kharagpur.
- NPTEL online certification course in X-ray Crystallography and Diffraction July-Oct 2017 (12 weeks course) IIT Madras.
- Yoga Certification course (Omkar Yoga Sadahana Kendra) July-November 2017
- Two day FDP in VIIT pune June 2016
- MSBTE Workshop at MIT pune June 2017

Research Contribution

Conference /Journal / Patents / Book Publications:

- " Lattice geometry controlled synthesis of copper doped nickel oxide nanoparticles" S.C.Chopade,I.G.Kore, S.P.Patil,N.D.Jadhav,C.Srinidhi,**P.A.Desai** .Ceram.Int.44 (2018)5621-5628.
- "Microwave combustion synthesis of silver doped lanthanum ferrite magnetic nanoparticles" P.A.Desai, A.A.Athawale, Def.Sci.Journal 63 (2013) 285-291.
- "Bulk and surface structure characterization of nanoscopic silver doped lanthanum chromites",
 - P. A. Desai,P.N. Joshi, K. R. Patil, Anjali. A. Athawale, Appl. Surf. Science 264 (2013) 574-580.
- Silver doped lanthanum chromites by microwave combustion synthesis", A.A.Athawale, P.A.Desai, Ceram. International 37 (2011) 3037-3043.
- "Nano LaCrO₃ catalyzed solvent free oxidation of ethylbenzene to acetophenone", Communicated,P.A.Desai, A.A.Athawale,
- "Hydroxide directed routes to synthesize nanosized cubic ceria (CeO₂)", A.A.Athawale, Malini.S.Bapat, Purushottam.A.Desai, J.Alloys.Comp. 484 (2009) 211-217.
- "Hydrothermal preparation of BaSnO₃ and Au-BaSnO₃ nanorods", A.A.Athawale, M.S.Bapat, P.A.Desai, J.Nanoscience.Nanotech 8 (2008) 4258-4262.
- "Toluene alkylation to selective formation of p-Xylene over co-crystalline ZSM-12/ZSM-5 catalyst " P.N.Joshi, P.S.Niphadkar, P.A.Desai, R.Patil, V.V.Bokade, J.Nat. Gas. Chem.16 (2007) 37-41.

Conference /Journal / Patents / Book Publications:

Communicated

- Design and characterization of ceramic oxides (Cambridge Science Publishing), proof reading III round
- Biopoiesis study of atomic and molecular chemistry in human biology (Cambridge Science Publishing), proof reading I round

Journal /Publications:

- Morphology controlled synthesis of barium doped copper oxide nanoparticles communicated