

NAME : **Dr. Manoj S**
DESIGNATION : **Guest Lecturer**
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EDUCATIONAL QUALIFICATION: **M.Sc, NET, PhD**
AREA OF INTEREST : **Nanoscience, Catalysis**
SPECIALISATION : **Chemistry**

Award

Synthesis, Characterization and ion exchange properties of nanocrystalline tin (IV)zirconium(IV) tungstate, presented at National Conference on Materials: Nano to Macro dimensionality and their varied applications, (M. S University, Thirunelveli, Tamilnadu) in the oral presentation has got second prize.

TEACHING EXPERIENCE : **10 Years**

1. Guest Lecturer in Chemistry, Department of Chemistry, N.S.S College, Nilamel, Kollam, Kerala India from 11/09/2023 to 27/03/2024.
 2. Guest Lecturer in Chemistry, Department of Chemistry, St. Johns College, Anchal, Kollam, Kerala India from 01/08/2021 to 31/03/2023
 3. Assistant Professor, Department of Chemistry, S.G CollegeKollam, Kerala India, Kollam, Kerala India from 22/08/2017 to 21/08/2019
 4. Assistant Professor in chemistry, Department of Basic Sciences, Believers Church Caarmel Engineering College, RanniPerunad, pathanamthitta, Kerala India from 14/03/2016 to 21/08/2017
 5. Assistant Professor in Chemistry (Adhoc), College of Engineering, Pathanapuram,Kollam, Kerala India from 03/08/2012 to 30/04/2013, 31/07/2013 to 30/04/2014, from 06/08/2014 to 20/04/2015 and from 31/07/2015 to 11/03/2015.
 6. Guest Lecturer in Chemistry, St.Stephen's College, PathanapuramKollam, Kerala India
1. *Optical and dielectric studies on tin(IV) tungstate nanoparticles*, Beena B and **Manoj S**, IOP Conf. Ser.: Mater. Sci. Eng. 73 (2015) 012068
 2. *Zirconium(IV) tungstate nanoparticles prepared through chemical coprecipitation method and its function as solid acid catalyst*, **ManojSadanandan** and BeenaBhaskaran, *Appli. Nanosci.*,4(6) (2014) 711-718.

3. *Synthesis and Characterization of tin(IV) tungstate nanoparticles – a solid acid catalyst*, **ManojSadanandan** and BeenaBhaskaran, *Bull.Chem.React.Eng&Catal.*, 7(2) (2012), 105-111
4. *Optical and Dielectric studies on zirconium(IV) tungstate nanoparticles prepared by chemical co-precipitation method*, **ManojSadanandan** and BeenaBhaskaran, *J.Iranian Chem. Res.*, 5(2) (2012), 109-118
5. *Synthesis and characterization of novel nanocrystalline zirconium(IV) tungstate semiconductor*, **Manoj S** and Beena B, *J. Nano- Electron. Phys.*, 3(1) (2011), 179-184
6. *Synthesis, Characterization and Catalytic activity of nanocrystalline tin(IV) tungstate*, **Manoj S** and Beena B, in Proceedings of International Conference on Nanomaterials and Nanotechnology, *Synthesis and characterization of nanostructured materials*, V.Rajendran, B.Hillbrands, K.Saminathan and K.E Geckeler (Eds), Macmillan, 2010 (ISBN 10: 0230-33193-9, ISBN 13: 978-0230-33193-8) p59
7. *Synthesis, Characterization and ion-exchange properties of nanocrystalline Tin(II)Tin(IV) phosphate*, Raji V, **Manoj S** and Beena B, in proceedings of International Conference on Nanoscience and Technology in Chemistry, Health, Environment and Energy (NATCHEE 2010), L.D.Khemani and SahabDass (Eds), Tata McGraw Hill Education Private Limited, New Delhi, (ISBN-13 : 978-0-07-068063-0; ISBN-10: 0-07-068063-9) p194.

Papers Presented at International Conferences

1. Antibacterial and Acidity studies on tungstate modified nano zirconia synthesized by auto-combustion method, **Manoj S**, Arya B.S, Ajo J and Remya R, International Conference on Advanced Functional Materials, (ICAFM 2018) held at St. Berchmans College, Chenganasseri during October 2018

2. Synthesis and characterization of tungstate supported on to nanozirconia synthesized by sol-gel autocombustion method, Remya R, Jisho J. Panicker and **Manoj S**, International Conference on Advanced Functional Materials, (ICAFM 2018) held at St. Berchmans College, Chengannasseri during October 2018
3. Optical and dielectric studies on tin(IV) tungstate nanoparticles, **Manoj S** and Beena B., International Conference on Materials Science and technology (ICMST-2012) held at St. Thomas College, Pala during June 2012.
4. Synthesis and characterization of novel nanocrystalline zirconium(IV) tungstate semiconductor, **Manoj S** and Beena B., International Symposium on Semiconductor Materials and Devices, M.S. University of Baroda, Vadodara, Gujarat during January 2011
5. Synthesis, Characterization and Catalytic activity of nanocrystalline tin(IV) tungstate, **Manoj S** and Beena B., International Conference on Nanomaterials and Nanotechnology, held at KSR College of Technology, Thiruchengodu, India, during December 2010
6. Ion exchange Properties of nanocrystalline zirconium(IV) tungstate, **Manoj S** and Beena B., International Conference on Materials For the New Millennium held at Cochin University of Science and Technology, Kochi, Kerala during January 2010
7. Synthesis, Characterization and Catalytic activity of zirconium(IV) tungstate in the nanoform, **Manoj S** and Beena B., International Conference on Frontiers in Chemical research (ICFCR-2008) held at Mangalore University, Mangalagangotry during December 2008

Papers Presented at National Conferences

1. Dielectric study on tin(IV)zirconium(IV)tungstate nanoparticles, **Manoj S** and Beena B., National Seminar on Physical and Biomedical Applications in nanotechnology (NSNANO-2011), held at S.N College, Kollam during October 2011.

2. Synthesis, Characterization and ion exchange properties of nanocrystalline tin(IV) zirconium(IV) tungstate, **Manoj S**, Raji V and Beena B, National Conference on Materials: Nano to macro dimensionality and their varied applications, M.S. University, Thirunelveli, Tamil Nadu, during January 2010
3. Preparation and characterization of nanocrystalline zirconium(IV) phosphate catalyst, **Manoj S**, Raji V and Beena B., UGC sponsored national Seminar on 'Nanotechnology for Biomedical Applications', held at S.N. College, Chengannur, Kerala during March 2009.
4. Synthesis, Characterization and Catalytic Activity of Nanocrystalline Zirconium(IV) phosphate, **Manoj S**, Raji V, Shanavas Khan J and Beena B, National Seminar on Recent Developments in Green Chemistry (NSGC-2009) held at Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore, Tamil Nadu during July 2009
5. The effect of annealing temperature on the behavior of nanostructured zirconium(IV) tungstate prepared by organic templating agent, **Manoj S**, Raji V and Beena B., National Seminar on "Recent Advances in Nanoscience and Technology, held at S.N. College, Kollam, Kerala, during October 2009
6. Characterization techniques of nanomaterials, *Manoj* Sand Beena B, Multidisciplinary Seminar Series BODHI-2008-2009, held at D.B. College, Sasthamcotta, during November-December -2008.

Seminars Attended

1. The Role of Intellectual Property Right in Research, held at S.N. College, Kollam during August 2009
2. 21st Kerala Science Congress held at Kollam during January 2009.

3. National Seminar on FEMTOCHEM-2006 titled Newer Frontiers in Chemistry, held at S.G.College, Kottarakkara during February 2006
4. National Seminar on Reviving Chemistry for the Challenges in 21st Century, held at N.S.S College, Pandalam during December 2004.