

CURRICULUM VITAE

Dr Niraj N. Gedam

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PERSONAL DETAILS

Name : Dr Niraj N. Gedam
Date of Birth : 4th May 1982
Gender : Male
Category : OPEN

EDUCATIONAL QUALIFICATION

- Ph.D. degree from Sant Gadge Baba Amravati University, Amravati in the year 2011.
- M.Sc. in Chemistry (with Organic Chem. Specialization) passed in 1st Class from Shri Shivaji Science College, Amravati in the year 2004.
- B.Sc. passed with Physics, Chemistry and Maths in IInd Class from Shri Shivaji Science College, Amravati in the year 2002.

PROFESSIONAL EXPERIENCE

- Working as an Assistant Professor at Mahatma Jyotiba Fule Arts, Commerce and Science College, Bhatkuli, Dist. Amravati since 05/12/2016.
- Worked as an Assistant Professor at Dr Rajendra Gode Institute of Technology and Research, Amravati from 01/05/2008 to 01/12/2016.
- Worked as a Contributory Lecturer at Bar. R.D.I.K.N.K.D. College, Badnera, Amravati.

MEMBERSHIP OF ACADEMIC ORGANIZATIONS

- Life member of ISTE, New Delhi

PAPER PUBLICATIONS

- Research papers Published in National/International Journals : 15
- Research papers presented in International / National Conferences : 16
- Work shop/Seminars attended : 04

PAPER PUBLICATION IN JOURNALS

- “H₂S sensing properties of nanocrystalline Sr₂Fe_{0.6}Ni_{0.4}MoO₆ thick film prepared by sol-gel citrate method”
G. N. Chaudhari, **N. N. Gedam**, S. V. Jagtap and S.V. Manorama
Talanta 77 (2009) 1675–1679.
- “Ammonia gas sensor based on a spinel semiconductor, Co_{0.8}Ni_{0.2}Fe₂O₄ nanomaterial”
N. N. Gedam, P. R. Padole, S. K. Rithe and G.N. Chaudhari
Sol-Gel Science and Technology, 50 (2009) 296-300.
- “Structural properties of nanosized NiFe₂O₄ for LPG sensor”
N. N. Gedam, A. V. Kadu, P. R. Padole, A. B. Bodade and G. N. Chaudhari
Sensors & Transducers Vol. 110, Issue 11 (2009) 86-95.
- “Sol-gel synthesized semiconducting LaCo_{0.8}Fe_{0.2}O₃-based powder for thick film NH₃ gas sensor”
G. N. Chaudhari, S. V. Jagtap, **N. N. Gedam**, M. J. Pawar, V. S. Sangawar
Talanta 78 (2009) 1136–1140.
- “Detection of Hydrogen Sulphide Gas Sensor Based Nanostructured Ba₂CrMoO₆ Thick Films”
A. V. Kadu, **N. N. Gedam** and G. N. Chaudhari
Sensors & Transducers, Vol.85, Issue 11 (2007) 1728-1738.
- “Ammonia gas sensing properties of nanocrystalline Zn_{1-x}Cu_xFe₂O₄ doped with noble metal”
S. V. Jagtap, A. V. Kadu, **N. N. Gedam** and G. N. Chaudhari
Sensors & Transducers, Vol. 122, Issue 11 (2010) 120-127.

- “Structural, Electrical properties of nanocrystalline Co doped - $\text{La}_x\text{Ce}_{1-x}\text{O}_2$ for Gas sensing applications”
A. B. Bodade, Minaz Alvi, **N. N. Gedam**, H. G. Wankhade and G. N. Chaudhari
Sensors & Transducers, Vol. 122, Issue 11 (2010) 55-65.
- “A review : ethanol as a power alcohol”
A.D. Bhetalu and **N. N. Gedam**
International Journal of Pure and Applied Research in Engineering and Technology (IJPRET), Vol 1, Issue 8 (2013) 163-168.
- “Preparation and gas Sensing performance of nanostructured Copper Doped Nickel Oxides”
A. V. Kadu, **N. N. Gedam** and S. V. Jagtap
International journal of chemical & physical sciences, ISSN: 2319 - 6602, Vol. 4 (2015) 186-194.
- “Structure and gas Sensing application of nanocrystalline LaCrO_3 synthesized by sol – gel method”
N. N. Gedam, A. V. Kadu, S. V. Jagtap and A. M. Kale
Aayushi International interdisciplinary Research Journal, ISSN: 2349-638X, Issue No. 25, (2018) 345 - 348.
- “Preparation and study of alcohol gas sensing behaviour of CuFe_2O_4 ”
A. V. Kadu, **N. N. Gedam**, S. G. Ibrahim and S. V. Jagtap
Aayushi International interdisciplinary Research Journal, ISSN: 2349-638X, Issue No. 25, (2018) 238 - 241.
- “Synthesis and electrical properties of CdFe_2O_4 nanoparticles with effect of capping agents”
A. V. Kadu, **N. N. Gedam**, S. G. Ibrahim and S. V. Jagtap
Research Journey, ISSN: 2348-7143, Issue No. 110 (B), (2019) 48 - 51.

- “Effect of Eu doping on structural and gas sensing properties of In_2O_3 nanoparticles”
A. V. Kadu, **N. N. Gedam**, S. G. Ibrahim and S. V. Jagtap
Ajanta, ISSN: 2277 – 5730, Vol. VIII, Issue 1, (2019) 133 - 141.
- “Gas sensing properties of CuO modified Zinc Stannate nanomaterial prepared by sol – gel method”
N. N. Gedam, G. N. Chaudhari, A. V. Kadu, S. V. Jagtap and A. D. Bhetalu
Journal of Emerging Technologies and Innovative Research, ISSN: 2349 – 5162, Vol. VII, Issue 2, (2020) 440 - 443.
- “Influence on Zn substitution on the structural and gas sensing properties of $\text{Co}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ nano-ferrites”
A. V. Kadu, G. N. Chaudhari, S. G. Ibrahim, **N. N. Gedam** and S. V. Jagtap
Journal of Emerging Technologies and Innovative Research, ISSN: 2349 – 5162, Vol. VII, Issue 2, (2020) 389 - 392.

PAPER PRESENTED AT CONFERENCES

- “ NiFe_2O_4 based LPG sensor prepared by citrate method”
N. N. Gedam and G. N. Chaudhari
Paper presented at 15th AGM of “Material Research Society in India (MRSI)” held on 12-14th Feb. 2007 at NPL, New Delhi.
- “Preparation and characterization of nanocrystalline $\text{Sr}_2\text{Fe}_{0.6}\text{Ni}_{0.4}\text{MoO}_6$ thick film based hydrogen sulphide gas sensor”
N. N. Gedam, M. J. Pawar and G. N. Chaudhari
Paper presented at “International conference on Nanomaterials and Applications” held on 9-11th Dec. 2008 at Shivaji University, Kolhapur.
- “Electrical and gas sensing properties of spinel type ZnFe_2O_4 thick film”
N. N. Gedam, S. V. Jagtap, M. J. Pawar, A. V. Kadu, and G. N. Chaudhari
Paper presented at “National conference on Material Science: Trends and Future - 2010” held on 6-7th Jan. 2010 at Vidya Bharati Mahavidyalaya, Amravati.

- “Water hyacinth – A potential source for ethanol production”
S. A. Patil, **N. N. Gedam** and N. W. Ingole
Paper presented at “National conference on Green Technology” held on 16-17th April 2010 at Shri Sant Gajanan Maharaj College of Engineering, Shegaon.
- “Ammonia gas sensing properties of nanocrystalline $Zn_{1-x}Cu_xFe_2O_4$ doped with noble metal”
A. V. Kadu, **N. N. Gedam** and N. S. Ghotkar
Paper presented at “National conference on Green Technology” held on 16-17th April 2010 at Shri Sant Gajanan Maharaj College of Engineering, Shegaon.
- “Effect of Co doping on ammonia gas sensing performance of $LaMnO_3$ thick film sensor”
N. N. Gedam, S. D. Thakre, A. V. Kadu, and S. V. Jagtap
Paper presented at “International conference on Material processing and Characterization” held on 8-10th March 2012 at Gokaraju Rangaraju College of Engineering and Technology, Hyderabad.
- Synthesis and Characterization of $La_{1-x}Sr_xCoO_3$ Thick Films as H_2S Gas Sensors
A. V. Kadu, N. S. Ghotkar, **N. N. Gedam** and S. V. Jagtap
Paper presented at “International conference on Material processing and Characterization” held on 8-10th March 2012 at Gokaraju Rangaraju College of Engineering and Technology, Hyderabad.
- “A review : ethanol as a power alcohol”
A.D. Bhetalu and **N. N. Gedam**
Paper presented at “International conference on Emerging Trends and Research in Engineering and Technology” held on 30-31st March 2013 at IBSS College of Engineering, Amravati.
- “Structural and Electrical properties of CdSe on GaAs for MIS applications”
S. V. Chinchmalatpure, **N. N. Gedam** and A. V. Kadu
Paper presented at “National conference on Frontier Areas in Chemistry” held on 23-24th Oct. 2013 at Shri Shivaji Science College, Amravati.

- “Improved response of Copper Doped Nickel Oxides Nanomaterials towards Carbon Monoxide gas: Effect of Pt Sensitization”
 A.V. Kadu, **N. N. Gedam**, N. S. Ghotkar and S. V. Jagtap
 Paper presented at “International conference on Materials and Characterization Techniques” held on 10-12th March 2014 at VIT University, Chennai.
- “Gas sensing properties of nanocrystalline Sr doped LaMnO₃ grown by sol - gel method”
N. N. Gedam, A. V. Kadu and N. S. Ghotkar
 Paper presented at “International conference on Nanoscience, Nanotechnology and Advanced Materials” held on 14-17th December 2015 at GITAM University, Visakhapatnam.
- “Nanocrystalline Sm_{0.9}Ce_{0.1}Fe_{1-x}La_xO₃ : A novel semiconducting material for H₂S detection”
 A. V. Kadu, **N. N. Gedam** and S. V. Jagtap
 Paper presented at “International conference on Nanoscience, Nanotechnology and Advanced Materials” held on 14-17th December 2015 at GITAM University, Visakhapatnam.
- “Fabrication and characterization of Ti - substituted LaCrO₃ perovskite material by sol – gel method”
N. N. Gedam, A. V. Kadu, S. V. Jagtap & N. S. Ghotkar
 Paper presented at “International conference on Advances in Chemical Sciences” held on 1-3rd February 2018 at Shivaji University, Kolhapur.
- “Structural and gas sensing application of nanocrystalline LaCrO₃ synthesized by sol – gel method”
N. N. Gedam, A. V. Kadu and S. V. Jagtap
 Paper presented at International conference on “Recent Trends in Science and Technology” held on 22-23rd March 2018 at S.S.S.K.R. Innani Mahavidyalaya, Karanja Lad, Dist Washim.

- “Synthesis And Gas Sensing Properties of Zn₂SnO₄ Nanomaterial Towards CO Gas”
N. N. Gedam, A. V. Kadu, S. V. Jagtap and A. M. Kale
Paper presented at “International conference on Advances in Nanomaterials and Devices for Energy and Environment” held on 27-29th January 2019 at ABV - IITM, Gwalior.
- “Gas Sensing Properties of CuO modified Zinc stannate Nanomaterial prepared by sol gel method”
N. N. Gedam, G. N. chaudhari, A. V. Kadu and S. V. Jagtap
Paper presented at National conference on “Innovative Research in Science and Technology” held on 17-18th December 2019 at Shri Shivaji Science College, Amravati.

WORKSHOP / SEMINAR ATTENDED

- National workshop on “Modern Trends in Advanced Analytical Techniques” held on 8-10th January 2008 at Nowrosjee Wadia College, Pune.
- National workshop on “Advances in Instrumental Techniques” held on 14-16th Oct 2010 at Shri Shivaji Science College, Amravati.
- National seminar on "Nanotechnology and Nanoengineering" held on 29th September 2016 at Arts, Commerce and Science College, Kiran Nagar, Amravati.
- One day workshop on “CBCS – NEP Executors Training Program” held on 17th September 2022 at Vidya Bharti Mahavidyalaya, Amravati.

DECLARATION

I hereby declare that the information submitted above is true and correct to the best of my knowledge and belief.

Dr Niraj N. Gedam