

CURRICULUM VITAE

Dr. G. N. CHAUDHARI

Professor and Head
Department of Chemistry,
Shri Shivaji Science College,
Amravati - 444 606 , M.S. India.
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PERSONAL PROFILE

Name : **Dr. G. N. CHAUDHARI**

Date of Birth : 7th November 1965

Nationality : Indian

Present position : Professor

Address Correspondence : 40, Sanjeevani Colony , Near Congress Nagar, CAMP, Amravati -444602, India.

Office Address : Department of Chemistry,
Shri Shivaji Science College,
Amravati-444603

Martial Status : Married

ACADEMIC QUALIFICATIONS

Ph.D.(Chemistry) University of Pune, Pune, India (1993)

M.Sc (Physical Chemistry)) University of Pune, Pune, India (1988)

B.Sc.(Chemistry) University of Pune, Pune, India(1986)

AREAS OF SPECIALISATION / INTEREST

- Materials Science

THESIS

Dr. G. N. Chaudhari: *Structural and Electrical properties of dielectric layers on GaAs*. 06/1993, Degree: Ph.D., Supervisor: Dr. V.J.Rao

PROFESSIONAL EXPERIENCE

1. Junior Research Fellow : National Chemical Laboratory, Pune, India : 1988 – 1991
2. Senior Research Fellow : Indian Institute Of Chemical Technology, Hyderabad, India 1991 – 1995
- 3 Assistant Professor : J.D. Patil Sangludkar Mahavidyalaya, Daryapur , Amravati, 1998 – 2004.
4. Associate Professor : Shri Shivaji Science College, Amravati 2004 –Dec.2014
6. Professor : Shri Shivaji Science College, Amravati 2015 –cont.

SCIENTIFIC PRODUCTION

➤ Research Publications:

- National and International Journals : 139
- Paper presented in the conference : 28
- Citations : 893
- h-index : 15

BOOKS/BOOKS CHAPTER

1. **G.N. Chaudhari**, Physical Chemistry of Chemical Sciences, ISBN 978-93-82664-59-8
2. S. P. Chaudhari, S. P. Meshram, P. D. Jolhe, **G. N. Chaudhari** and A. B. Bodade , Zinc oxide microarchitectures with exposed crystal face for enhanced photocatalytic activity”, , pp 33-46 (2017) in ‘Novel Water Treatment and Separation Methods : Simulation of Chemical Processes’. Apple academic press, Canada.
ISBN: 978-1-315-22539-5. **ISBN** hard: 978-1-77188-578-2. Cat#: N11859.
ISBN ebook: 978-1-315-22539-5. Cat#: NE12123

RESEARCH WORK

- Students completed Ph.D. degree : 23
- Students submitted their for Ph.D. thesis : 01
- Students working for Ph.D. degree : 02

RESEARCH PROJECTS COMPLETED/ONGOING

- Nanostructured metal oxide gas sensors with superior performance, University Grants Commission(UGC) , New Delhi, 2007-2010
- Environmental monitoring system based semiconductor oxide sensor By CSIR, New Delhi , 2007-2010
- Synthesis of nanostructure and nanocomposite metal oxides for biosensor applications
University Grants Commission(UGC), New Delhi, 2015-18

WORKING AS A REVIEWER FOR NATIONAL /INTERNATIONAL JOURNALS

- Sensors and Actuators
- Talanta
- Journal of Materials Science
- Sensor letter
- Journal of Noncrystalline solid
- Materials Science and Engineering B
- Catalysis Communications
- Journal of Magnetism and Magnetic Materials
- Journal of Luminescence
- Spectrochimica Acta part A: Molecular and biomolecular Spectrscopy
- Arabian Journal of Chemistry
- Collides and surfaces A: Physicochemical and engineering aspects
- Journal of Molecular Catalysis A

MEMBERSHIP OF PROFESSIONAL BODIES

- Life member of Materials Research Society of India
- Life Member of Indian Chemistry Teachers [LM No. 958]
- Life member of Nagpur University Teachers' association , Nagpur
LM No. 4413 [No. 47/2001]
- Life member of Amravati University Chemistry Teachers Association
- Life member of Indian Association of Solid State Chemists and Allied Scientists Membership No. LM-369

WORKING AS A MEMBER

- Member on Editorial Advisory Board for an international **Sensors & Transducers Journal**.

- Organizing Secretary, National Conference on "Frontier Areas in Chemistry (NCFAC -2013) at Shri Shivaji Science college, Amravati on 23rd-24th October, 2013
- Member, Advisory committee for SAP at Department of Chemical Technology, SGB Amravati University, Amravati
- Advisory Committee Member for one day workshop on Effective Teaching Methodologies for Engineering Sciences on 5th August at D.Y. Patil College of Engineering Akurdi, Pune
- Advisory Committee Member for one day National seminar on Recent innovation in role of free radical on Global warning on 31st March 2012 at Mahatma Fule Arts, Commerce and Sitaramji Chaudhari Science Mahavidyalaya, Wadur, Dist Amravati
- Advisory Committee Member for National Conference on Materials: Atom to Molecules on 16th Dec.2011 at Science College, Nagpur

AWARD AND HONORS

- **Best Teacher Award** By Sant Gadge Baba Amravati University, Amravati on 1st May 2015
- **Best Teacher Award** By Shri Shivaji Education Society 2012
- UGC Research Award by University Grants Commission , New Delhi No. F.30-17/20119SA-II) dated 16th Jan 2012
- **Best Research Students Award** at Indian Institute of Chemical technology, Hyderabad 1992

WORKING AS A Ph.D. REFEREE

- RTM Nagpur University, Nagpur
- Sagar University, Sagar, M.P.
- Kurushetra University, Rajkot
- Khadi Universty, Ahmedabad, Gujarat
- Gujarat University, Gujarat

RESEARCH STUDENTS AWARDEDE Ph.D. DEGREE

Sr. No.	Name of Ph.D student	Topic	Registration Number	Status
1.	Dr. S.S.Patil	Chemically modified metal oxides as heterogeneous catalysis, preparation, characterization and application.	AU/ 554-Ph.D./ CHEM/ 14/ 2000	Awarded
2.	Dr. S.M.Chore	Structural and electrical	AU/554-Ph.D./	Awarded

		properties of cubic Boron Nitride thin films.	CHEM/10/2001.	
3.	Dr. V.S. Khandeker	Studies on WO ₃ based semiconductor gas sensor	AU/ 554-Ph.D./ CHEM/ 6/ 2001	Awarded
4.	Dr.. P.R.Padole	Studies on gas sensors based on semiconductive metal oxides.	AU/ 554-Ph.D./ CHEM/ 5/ 2001	Awarded
5.	Dr. Ku. M.S.Bhende	Preparation, characterization and sensing behavior of metal oxides.	AU/554-Ph.D./ CHEM/9/2003	Awarded
6.	Dr.. S.R.Bambole	Preparation and investigation of gas sensor based on metal oxides.	AU/ 554-Ph.D./ PHY/ 10/ 2002	Awarded No. 46/2009 dated 10/02/2009
7.	Dr. Ku. P.T.Deshmukh	Electrical conduction mechanism and other physical properties of polymer composite system.	AU/554-Ph.D./ CHEM/30/2003	Awarded
8.	Dr. S.V.Jagtap	Synthesis and characterization of semiconducting ceramic oxides based gas sensor.	AU/ 554-Ph.D./ PHY/ 21/ 2003	Awarded No. 88/2009 dated 26/11/2009
9.	Dr. V.P. Sondenker	Synthesis, characterization of group –13 nitride thins films and their applications.	AU/554-Ph.D./ CHEM/12/2003	Awarded
10	Dr. M.J.Pawar	Investigation, characterization and gas sensing behavior of metal oxides.	AU/554-Ph.D./ CHEM/24/2003	Awarded
11	Dr. N.N.Gedam	Preparation and characteristics of nanosized metal oxides based gas sensor	AU/554-Ph.D./ CHEM/24/2006	Awarded
12.	Dr.A.V.Kadu	Synthesis and Characterization of Nanosized Spinel and Perovskite Type Metal Oxides Based Gas Sensors.	AU/554-Ph.D./ CHEM/09/2006	Awarded
13.	Dr. Sunil M. Kemdeo	Preparation and characterization of mixed oxides supported metal oxides catalysis.	AU/554-Ph.D./ CHEM/24/2003	Awarded
14.	Dr. Mrs. Alvi Minaj	Preparation and	AU/554-Ph.D./	Awarded No.

	Sajid	characterization of metal oxides for gas sensor applications.	CHEM/15/2004	30/2012 dated 25/01/2012
15.	Dr. V.P. Chinchamatpure	Surface and Interfacial studies of insulator on semiconductor.	AU/ 554-Ph.D./ PHY/ 6/ 2003	Awarded No.49/2012 dated 15/02/2012
16.	Ashwinikumar U. Bajpeyee	Structural and Electrical Studies of Dielectric Layers on Semiconductor	AU/1945 PHY/ 6/ 2003	Awarded
17.	Dr.Pravin A. Murade	Study of Physical properties of some semiconductor materials prepared by chemical route technique	AU/ 555-Ph.D./ PHY/ 6/ 2003	Awarded No. 21/2013 dated 31.01.2013
19.	Dr.Miss Harshali G, Wankhade	Structural and Electrical characterization of nanostructured and nanocomposites materials for biosensor applications	SGBAU/PhD CHEM-4996/2011	Awarded
20.	Dr.Sharadchandra Tukaram Gawhale	Synthesis and Characterization of Metallocalixarenes As Precursors and their Applications	No.76/2015 dated 12.12.2015	Awarded
21	Dr.Mrs. Archana Bodade	Structural and Electrical properties of semiconducting nanostructured metal oxides	69/2015 dated 28 th August 2015	Awarded
22	Dr.Mr. V.T. Bhugul	Synthesis, Electrical and thermomechanical characterization of conductive polymer blends and composites	SGBAU/PhD/ 205/2010 dated 10.06.2010	Awarded
23	Mrs. Reena Nitin Raut	Synthesis and Characterization of Biopolymers and Biocomposites from renewable feedstock	SGBAU/PhD/ 191/2011 Dated 22/07/2011	Awarded
24.	Mr. N.H. Bansod	Synthesis and electrical characteristics of nanostructured metal oxides and its applications	SGBAU/PhD/ 265/2010 Dated 10/06/2010	Submitted
25.	Miss Pranali Kale	Synthesis and characterization of nanocomposites Mg, Fe mixed metal oxides for		Submitted

		biosensing applications		
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EXTENSION, CO-CURRICULAR AND FIELD BASED ACTIVITIES

- Working as a Board of Studies member at Jankidevi Bajaj College of Science, Wardha
- Work as V.C. nominee for placement of Dr. Umesh Khandekar , Art's Commerce and Science College, Kiran Nagar, Amravati on 02/04/2017
- Work as V.C. nominee for appointment of Assistant Professor at Jyotiba fule Art's, Commerce and Science College, Bhatkuli , Amravati on 29/11/2016.
- Work as V.C. nominee for placement of Dr. Atish Maldhure , Art's Commerce and Science College, Kiran Nagar, Amravati on 17/10/2016
- Visited SK Art's, commerce and Science College, Akola as a Member of Local Enquiry Committee for SGB Amravati University, Amravati on dated 16th February 2017.
- Attended SAP meeting as a Member at SGB Amravati University, Amravati on dated 21st March 2017.
- Delivered lecture on "Nanotechnology" at J.D. Patil Sangludkar Mahavidyalaya, Daryapur on 01/03/2016
- Chief Guest for "Science Day Celebration-2016" at J.D. Patil Sangludkar Mahavidyalaya, Daryapur on 01/03/2016
- Subject expert for **Project Fellow** of Major Research Project at Department of Chemistry at Art's, Commerce and Science College, Kiran Nagar, Amravati on 25th Sept. 2015.
- Lectures for M.Tech. I at Department of Chemical Technology, SGB Amravati University, Amravati
- Advisory Committee Member for **National Conference on Materials: Atom to Molecules** on 16th Dec.2011 at Science College, Nagpur
- **Advisory Committee Member** for one day National seminar **on Recent innovation in role of free radical on Global warning** on 31st March 2012 at Mahatma Fule Arts, Commerce and Sitaramji Chaudhari Science Mahavidyalaya, Wadur, Dist Amravati
- Worked on District and Panchayat Samiti , Amravati **Election duty** on 06th to 07th Feb.2012
- Worked on Amravati Muncipal corporation, Amravati **Election duty** 2012 Zone No. 3 (Prabhag No. 1to 15)
- **Advisory Committee Member** for one day workshop **on Effective Teaching Methodologies for Engineering Sciences** on 5th August at **D.Y. Patil College of Engineering Akurdi, Pune**

Orientation refresher course/Research Methodology/Workshop

- UGC sponsored Refresher Course in Chemistry, 17th Feb.2009 to 08th March, 2009, Academic Staff College, Kumaun University, Nainital ,
- UGC sponsored Refresher Course in Chemistry, 4th Feb. 2008 to 24th Feb 2008, Academic Staff College, Gujarat University, Ahmedabad

- Refresher Course in Chemistry, 6th March to 29th March 2000, Academic Staff College, Nagpur University, Nagpur
- Orientation Programme in Chemistry, 20th Oct to 12 Nov. 2001, Academic Staff College, Nagpur University, Nagpur
- Winter school on surfaces and interfaces, 2nd Jan to 11th Jan 1991, Department of Physics, University of Poona, Pune

RESEARCH PUBLICATIONS

1. Santosh J Uke, Vijay P. Akhare, Satish P. Meshram, Devidas R. Bambole, Dindayal S. Thakre and **Gajanan N. Chaudhari**, Fabrication of spherical nanocrystalline MnCo₂O₄ via sol- gel citrate route for supercapacitor application INTERNATIONAL Journal Of Current Engineering And Scientific Research (IJCESR), Volume-5, Issue-1, 2018, ISSN (PRINT): 2393-8374, (Online): 2394-0697,
2. S. J. Ukea, V.P. Akhareb, D.R. Bambole, A. B. Bodade and **G.N. Chaudhari**, Cost effective synthesis of spinel NiCo₂O₄ nanocrystal by sol-gel citrate method and its application for supercapacitor , International Journal of Materials Science Volume 12, Number 2 (2017), pp. 371-377, ISSN 0973-4589
3. P. S. Thakare, P. R. Padole, A. B. Bodade, and **G. N. Chaudhari**, Microstructural and antifungal properties of silver substituted Copper Ferrite nanopowder synthesized by sol-gel method, Indo American Journal Of Pharmaceutical Sciences 2018, 05 (01), 52-63 ISSN: 2349-7750.
4. P. R. Padole, P. S. Thakare and **G. N. Chaudhari**, Synthesis, Microstructural And Antibacterial activities of nanostructure MgFe₂O₄ against different bacterial strains, *Journal Of Pharmacy And Biological Sciences Volume 12, Issue 6 Ver. Iv (Nov. – Dec. 2017), Pp 77-84, E-ISSN:2278-3008, P-ISSN:2319-7676.*
5. **G.N. Chaudhari**, V.V. Deshmukh and D.K. Burghate, Characterization of Multicomponent Perovskite Oxide La_{0.8}Sr_{0.2}Co_{0.9}Fe_{0.1}O_{3-δ} Nanoparticles for Supercapacitor, International Journal of Advanced Materials Science ISSN 2231-1211 Volume 8, Number 1 (2017), pp. 17-31
6. S J Uike, V P Akhare, D R Bambole, A B Bodade, and **G N Chaudhari** Recent Advancements in the Cobalt Oxides, Manganese Oxides, and their composite As an electrode material for supercapacitor: A Review Frontiers 4 (21), 1, 2017
7. N.H. Bansod, **G.N. Chaudhari**, A.B. Bodade, S.D. Patil, Synthesis, characterization and biological evaluation of metal complexes of 2-Amino Acetate-6-Bromo Benzothiazole, Indo American Journal of Pharmaceutical Sciences 4 (4), 2017, 965-970

8. N. H. Bansod, **G. N. Chaudhari**, A.B.Bodade, S. A. Wadhal , Synthesis, Characterization of Nano Structured Co doped Nickel Oxide for the Application Glucose Biosensor, International Journal of Engineering Technology Science and Research, Volume 4, Issue 5 May 2017, ISSN 2394 – 3386
9. A. B. Bodade,.Minal Taiwade and **G. N. Chaudhari** , Bioelectrode based chitosan-nano copper oxide for application to lipase biosensor, Journal of Applied Pharmaceutical Research 2017, 5(1), 30-39
10. A.B. Bodade, N.H. Bansod and **G.N. Chaudhari** , Synthesis, characterization of Co- doped MnO₂ for application to urea biosensor, International Journal of Engineering Science Technology And Research 2,2, 2017, Page No. 220 – 224
11. P. D. Kale, A. B. Bodade, **G. N. Chaudhari**, Electrochemical Peroxidase Sensor Based On Magnesium Oxide-Chitosan Nanobiocomposite Film Journal of Biomedical and Pharmaceutical Research, 6, Issue 1: January-February: 2017, 09-17
12. Reena S. Vaidya, **Gajanan N Chaudhari** , Nitin Raut, Synthesis pathways for bio-renewable thermosets form vegetable oils, International Journal of Scientific & Engineering Research, Volume 7, Issue 3, March-2016, 984, ISSN 2229-5518
13. V. T. Bhugul and **G. N. Choudhari**, Synthesis and the study of tensile properties of polyaniline- polyester (unsaturated) composites using activated charcoal as filler, International Journal Of Pure And Applied Research In Engineering and Technology; Volume 5 (2): 2016, 645- 655
14. **G.N. Chaudhari** , Shiba Khan , A.B.Bodhade , S.V.Jagtap, Structural and conduction mechanism of nanocomposites cobalt based spinel ferrites by sol gel technique, International Journal For Research & Development In Technology Volume-5,Issue-1, Jan – 2016, ISSN (O) :- 2349-3585
15. Reena Vaidya, **Gajanan N. Chaudhari**, Nitin Raut, Synthesis Pathways For Biocomposites From Vegetable Oils, International Journal of advanced research and in Science and Engineering 2, 2016, pp 533-543, ISSN 2319-854
16. V.V. Deshmukh, P.A. Nagpure, D.K. Burghate and **G.N. Chaudhari**, Synthesis and electrochemical study of manganese ferrite nanoparticles, International Journal Of Current Research Vol. 8, Issue, 08, pp.35988-35991, August, 2016
17. P. D. Kale, A. B. Bodade and **G. N. Chaudhari**, Study of immobilization of urease on PVA-Nano NiFe₂O₄ nanocomposite for biosensor applications, International Journal of Pharmacy and Pharmaceutical Sciences, Vol 8, Issue 7, 2016, ISSN- 0975-1491,

18. M.M. Fukate, A.B. Bodade and **G.N. Chaudhari**, SrCe₂O₃ Nanoparticles as Electrolyte Material for Proton Conducting Fuel Research Journal of Chemical Vol. 6(12), 1-5, December (2016) ISSN 2231-606X
19. M.A. Taiwade, A.B. Bodade and **G.N. Chaudhari**, Nanostructured Rutile Titanium Dioxide Based Platform For application to Urease Biosensor, Int. J. Pharm. Sci. Rev. Res., 38(2), May ,June 2016; ISSN 0976044
20. P. R. Padole, P. S. Thakare and **G. N. Chaudhari**, Synthesis and characterization of Cu doped ZnFe₂O₄ nanoparticles and their antibacterial activity against human pathogens, European Journal of Biomedical and Pharmaceutical sciences 2016, Volume 3, Issue 10, 248-254, ISSN 2349-8870
21. P.G.Rohokale, A.B. Bodade and **G.N. Chaudhari** , Synthesis of new Mn/Ti containing perovskites and examination of their potentials for use as solid oxide fuel cell electrodes, International Journal Of Pharma And Bio Sciences 2015 April; 6(2): (P) 324 – 329, ISSN 0975-6299
22. V.T. Bhugul and **G. N. Chaudhari**, Synthesis and studies on nanocomposites of polypyrrole-Al-doped zinc oxide Nanoparticles, International Journal of Scientific and Research Publications, Volume 5, Issue 1, January 2015 1 ISSN 2250-3153
23. H G. Wankhade, S. V. Manorama And **G. N. Chaudhari** , Synthesis and characterization of peroxide sensor based on PVA-Pani nanocomposite, International Journal of Pharma and Bio Sciences, 2015 April; 6(2): (P) 422 - 429 ISSN 0975-6299
24. A.B. Bodade, P. R. Deshmukh , M.A.Taiwade and **G. N. Chaudhari**, AC impedance studies on strontium doped CdCrO₄ Nanoparticles prepared by Sol-gel Citrate Method, International Journal For Research & Development In Technology,4(1) July- 2015 ISSN (O) :- 2349-3585
25. Sharadchandra Gawhale, Ankita Jadha, Nilesh Rathod , Dipalee Malkhede, and **G.N. Chaudhari**, Inclusion complex formation of ternary system: Fluorescein-p-sulfonato calix[4]arene-Cu²⁺ by cooperative binding, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 148 (2015) 382–388
26. H. G. Wankhade and **G. N. Chaudhari**, Zinc Oxide- Peroxidase Biosensor: Fabrication And Characterization, International Journal Of Pharma And Bio Sciences 2015 April; 6(2): (P) 409 – 415 ISSN 0975-6299
27. Nitin H. Bansod and **Gajanan N. Chaudhari**, Synthesis and antibacterial activity of transition metal complexes of 2-amino acetate, 6-nitro benzothiazole, Journal of Chemical and Pharmaceutical Research, 2015, 7(9):204-208

28. V.T.Bhugul and **G.N.Chaudhari**, Application of Conductive Polymer Composites/ Blend for De-Mineralization of Industrial Waste and Recovery of Toxic Materials. International Journal of Engineering Technology Science and Research IJETSR Volume 2 Issue 9 September 2015 , ISSN 2394 – 3386
29. A.B. Bodade, P. R. Deshmukh, M.A.Taiwade, **G.N.Chaudhari**, AC impedance studies on strontium doped CdCrO₄ Nanoparticles prepared by Sol-gel Citrate Method, International Journal For Research & Development In Technology, Volume-4,Issue-1, Jul-201
30. M.A.Taiwade, A.B.Bodade, and **G.N.Chaudhari**, Sol-Gel Derived Mn-doped TiO₂-PVA nanobiocomposite for Urea Biosensor, International Journal of Scientific & Engineering Research, Volume 5, Issue 12, December-2014 1, ISSN 2229-5518
31. V. T. Bhugul and **G. N. Chaudhari** , Synthesis, Characterization and Effect of Conductive Filler on Mechanical properties of thermosetting resin, International Journal of Advanced and Innovative Research 142 / Volume 5, , ISSN 2278-7844
32. Sharadchandra Gawhale, Yogita Thakare, Dipalee Malkhede and **Gajanan Chaudhari**, Study on Complex Formation of Fluorescein-p-Sulfonatocalix[4]arene by Spectroscopic Methods, Optics and Photonics Journal, 2014, 4, 237-245
33. **G. N. Chaudhari** and P.D. Kale, Sol Gel synthesis and Characterization of nanocrystalline Cr doped BiFeO₃, Proceedings of National conference on recent Application of Mathematical tools in science and Technology dated 8-9 May 2014, ISBN: 978-93-82588-41-2
34. A.B.Bodade, S.J.Uke,V.P.Akhare, D.R.Bambole and **G.N. Chaudhari** Electrical and cyclic voltammetric study of MgFe₂O₄ nanocomposit prepared by sol - gel method, Proceedings of National Conference on "Frontier Areas in Chemistry (NCFAC -2013) at Shri Shivaji Science college, Amravati on 23rd-24th October, 2014, 2014, ISBN:978-81-8465-683-1
35. P.R. Padole,Manish M. Fukate Anjali.B. Bodade, and **G.N. Chaudhari** , Electrical properties of Zirconia mixed ceria based composites by sol gel citrate method, Proceedings of National Conference on "Frontier Areas in Chemistry (NCFAC -2013) at Shri Shivaji Science college, Amravati on 23rd-24th October 2014, 2014, Pp 87, ISBN 978-81-922256-5-4
36. P.G.Rohokale,A.B. Bodade and **G.N. Chaudhari** , Synthesis of new Mn/Ti containing pervoskites and examination of their potentials for use as solid oxide fuel cell electrodes, Proceedings of National Conference on "Frontier Areas in Chemistry (NCFAC -2013) at Shri Shivaji Science college, Amravati on 23rd-24th October, 2014, 978-81-926-186-3-7

37. P.D.Kale,M.A.Taiwade,**G.N.Chudhari**, Preparation, characterization and applications of aluminum oxide nanoparticles-pva composite film for urea biosensor, 2014, Proceedings of National Conference on "Frontier Areas in Chemistry (NCFAC -2013) at Shri Shivaji Science college, Amravati on 23rd-24th October, 2014, ISBN:978-81-926-186-3-7
38. A.B. Bodade, Shibha Khan, P.R. Padole and **G.N. Chaudhari**, Dielectric properties and conductivity of Ni doped Cobalt ferrite, Proceedings of National Conference on "Frontier Areas in Chemistry(NCFAC -2013) at Shri Shivaji Science college, Amravati on 23rd-24th October, 2014, Pp167, ISBN:978-81-926-186-3-7
39. Sonali P.Chaudhari, Anjali B.Bodade, **Gajanan N. Chaudhari**, Facile hydrothermal synthesis, characterization and sunlight driven photocatalytic properties of Co doped ZnO microrods, Proceedings of National Conference on "Frontier Areas in Chemistry (NCFAC -2013) at Shri Shivaji Science college, Amravati on 23rd-24th October, 2014, pp174, ISBN: 978-81-926-186-3-7
40. **G.N. Chaudhari**, P.D.Kale , Sol gel synthesis & characterization of nanocrystalline Cr doped BiFeO₃, Proceedings of National Conference on "Frontier Areas in Chemistry (NCFAC -2013) at Shri Shivaji Science college, Amravati on 23rd-24th October, 2014, ISBN: 978-81-926-186-3-7
41. **G.N. Chaudhari**, Priyanka Kambe, A.B. Bodade, Antimicrobial activity of aluminium doped ZnO nanoparticles on gram – positive & gram – negative bacteria, Proceedings of National Conference on "Frontier Areas in Chemistry (NCFAC -2013) at Shri Shivaji Science college, Amravati on 23rd-24th October, 2014, , ISBN:978-81-926-186-3-7
42. **G.N. Chaudhari**,M.A.Taiwade, A.B. Bodade, Synthesis, impedance & dielectric properties of Mn doped Co₂CrO₄ nanoparticles prepared by sol gel citrate method, Proceedings of National Conference on "Frontier Areas in Chemistry (NCFAC -2013) at Shri Shivaji Science college, Amravati on 23rd-24th October, 2014, Pp167, ISBN:978-81-926-186-3-7
43. **G.N. Chaudhari**,P.S.Kale,P.R.Padole , Preparation, characterization & antimicrobial properties of ZnFe₂O₄ nanocomposites using sol gel method, Proceedings of National Conference on "Frontier Areas in Chemistry (NCFAC -2013) at Shri Shivaji Science college, Amravati on 23rd-24th October, 2014, Pp167, ISBN:978-81-926-186-3-7
44. **G.N.Chaudhari**, A.B.Bodade, D.K.Burghate, Structural and Electrical Properties of Sr - Substituted Perovskites Nano crystalline LaMnO₃, International Journal of Engineering and Innovative Technology (IJEIT) Volume 4, Issue 1, July 2014
45. M.A.Taiwade, A. B. Bodade and **G. N. Chaudhari**, Sol-Gel Derived Mn-doped TiO₂-PVA nanobiocomposite for Urea Biosensor, International Journal of Scientific & Engineering Research, Volume 5, Issue 12, December-2014 ,ISSN 2229-5518 |

46. **G.N.Chaudhari**, Bavna Kale and A.B. Bodade Structural and electrical properties of nanocrystalline Cd doped CuFe_2O_4 , International Journal of Advanced Materials Science, 5, 2014 pp17-21, ISSN:2231-1211
47. V. R. Chinchamatpure and **G. N. Chaudhari**, Improment of the intercae properties of BaTiO_3 thin films on (100) Si by insitu rapid thermal annealing, International Journal of Current Research In Chemistry and Pharmaceutical Sciences,1(7),2014, pp13-18,ISSN:2348-5213
48. **G.N. Chaudhari** , AC Impedance spectroscopy study on Nickel doped Cadmium Ferrites Nano particles prepared by sol-gel citrate method International Journal of Engineering and Innovative Technology, 3,(2014) 167-170..
49. Sharadchandra Gawhale, Yogita Thakare, Dipalee Malkhede, **Gajanan Chaudhari**, Study on complex formation of Fluoroscein-p-sulfonato calix[4]arene by spectroscopic methods , Optics and Photonics Journal 4(2014)237-245, ISSN 2160-8881
50. S.M. Kemdeo, V.S. Sapkal and **G.N. Chaudhari**, Mixed Oxide Supported MoO_3 Catalyst: Preparation, Characterization and Activities in Nitration of o-xylene
51. V.T. Bhugul and **G.N. Chaudhari** Synthesis and characterization of polypyrrolezinc oxide nano composites by ex- situ technique and study of their thermal & Electrical properties. International Journal of Advanced and Innovative Research (2278-7844) / 159 / Volume 2, Issue 12, pp 159-164, ISSN 2278-7844
52. Sonali Prakashrao Chaudhari, Anjali Babasaheb Bodade, **Gajanan Niranjanrao Chaudhari** , Synthesis, characterization and photocatalytic recital of nest-like zinc oxide photocatalyst , Korean Journal of Chemical Engineering 11,2013 pp 2001-2006 , Impact Factor 2.145
53. P. A. Murade, V. S. Sangawar, **G. N. Chaudhari**, V. D. Kapse, A. U. Bajpeyee , Gas sensing performance of nanocrystalline ZnO prepared by a simple route, Materials Science-Poland 31, 2013 pp 298-305, Impact Factor 0.258
54. N.H. Bansod, **G.N. Chaudhari**, M.S. Tihile, S.D. Patil, Synthesis and antibacterial activity of new complexes of benzothiazole derivatives , Der Pharma Chemica 2, 2013, pp 144-148
55. A.B. Bodade , S.J.Uke, V. P. Akhare, , D. R. Bambole and **G. N. Chaudhari** Electrical and cyclic voltammetric study of MgFe_2O_4 nano composite prepared by sol - gel method, Proceedings in National Conference on "Frontier Areas in Chemistry (NCFAC -2013) at Shri Shivaji Science college, Amravati on 23rd-24th October, 2013 , ISBN 978-81-926-186-3-0

56. P.R. Padole , Manish M Fukate, Anjali B Bodade, and **G.N.Chaudhari** Electrical properties of zirconia mixed ceria based composites by sol gel citrate method, Proceedings in National Conference on "Frontier Areas in Chemistry (NCFAC -2013) at Shri Shivaji Science college, Amravati on 23rd-24th October, 2013 , ISBN 978-81-926-186-3-0
57. V.R. Chinchamatpure, S.M. Chore, S. S. Patil and **G.N. Chaudhari** Structural and Electrical characterizations of ZrO₂ thin films on Si(100), J. of Modern Physics January 2012 (Vol. 3 No. 1)
58. C. Balamurugana, A. Subashinia, **G.N. Chaudhari** , A. Subramaniac Development of wide band gap sensor based on AlNbO₄ nanopowder for ethanol, Journal of Alloys and Compounds Vol. 526, 15 2012, Pp110–115
59. Ashish V. Kadu, Archana B. Bodade, Anjali B. Bodade, **G. N. Chaudhari**, Structural Characterization of Nanocrystalline La_{1-x}Sr_xCrO₃ Thick Films for H₂S Gas Sensors, Journal of Sensor Technology Vol 2, pp13-18, 2012
60. A. U. Bajpeyee, B. H. Pawar, **G. N. Chaudhari**, F. C. Raghuwanshi, V. D. Kapse, P. A. Murade, Structural Studies on Nano-sized Strontium doped Lead titanates, National Seminar on technical innovations with environmental integrity, HVPM College of Engineering and technology, Amravati February 28, 2012, 978-81- 922256- 6-1
61. V. R. Chinchamatpure, S.M. Chore, S.S.Patil, **G. N. Chaudhari** Synthesis and Electrical characterizations of ZrO₂ thin films on Si(100), V. Journal of Modern Physics 2012 (Vol. 3 No. 1)
62. A.B.Bodade, H.G. Wankhade, **G.N. Chaudhari** , D.C. Kothari, Conduction mechanism and Gas Sensing Properties of CoFe₂O₄ nanocomposite thick films for H₂S Gas, Talanta Vol,89,pp 183-188, 2012
63. **G.N. Chaudhari** , Minaz Alvia, H.G. Wankhade, A.B. Bodade, Sunkara V. Manorama, Nanocrystalline chemically modified CdIn₂O₄ thick films for H₂S Gas Sensor, Thin Solid Films Vol.520, Issue 11, pp 4057–4062, 2012,
64. V.T. Bhugul and **G. N. Chaudhari**, Synthesis and Characterization of polyaniline-Blend by Insitu technique in non Aquous solvent Medium Proceeding of UGC sponsored National Conference on Recent Researches in Chemistry: A journey Towards Social Upliftment, 14th to 15th February 2012 at Lokmanya Tilak Mahavidyalaya, Wani, ISBN No. 978-81-905776-12-1
65. A.B. Bodade, P.R. Padole and **G.N. Chaudhari** , Structural and electrical conduction mechanisum of nanocrystalline Cd doped LaFeO₃, Proceeding of National seminar on Technological innovations with Environmental integrity 28th Feb, 2012, ISBN 978-81-922256-5-4.

66. V.T. Bhugul and **G. N. Chaudhari** , Synthesis and Characterization of polyaniline-Blend by Insitu technique in non Aquous solvent Medium, Proceeding of UGC sponsored National Conference on Recent Researches in Chemistry: A journey Towards Social Upliftment, 14th to 15th February 2012 at Lokmanya Tilak Mahavidyalaya, Wani, 2012, p.p. 29-30
67. P. A .Murade, V. S. Sangawar, **G. N. Chaudhari**,V. D. Kapse, A. U. Bajpewee , Synthesis and gas sensing performance of ZnO nanoparticles prepared by a hydrothermal decomposition route, Proceeding of international conference on nanoscience, engineering and advanced computing (ICNEAC-2011), 2011, p.p. 534-537
68. A. U. Bajpewee,B. H. Pawar, **G. N. Chaudhari**,F. C. Raghuwanshi, V. D. Kapse,P.A.Murade, Temperature and frequency dependence of dielectric constant of $Pb_{0.5}Ca_{0.5}TiO_3$, Proceeding of International Conference on nanoscience,Engineering and advanced computing (ICNEAC), 2011, p.p.- 554-556, ISBN No. 978-81-905776-12-1
69. P.A. Murade, V.S. Sangawar, **G. N. Chaudhari** , V.D. Kapse and A.U. Bajpeyee ,Acetone gas sensing performance of Sr-doped nanostructured $LaFeO_3$ semiconductor prepared by citrate Sol-Gel route, Current Applied Physics11 (2011) pp. 451-456
70. A.U. Bajpeyee, B.H. Pawar, **G. N. Chaudhari**, F.C. Raghuwanshi ,V. D. Kapse, Novel synthesis of nano-crystalline lead titanate, BIONANO FRONTIER, NCANDT(spl) (2011) pp24-27,
71. A.U. Bajpeyee, B.H. Pawar, **G. N. Chaudhari**, F.C. Raghuwanshi ,V. D. Kapse, Structural and dielectrical studies of $Pb_{0.6}Sr_{0.4}TiO_3$ layers on Si , BIONANO FRONTIER 2011, NCANDT(spl) , pp 85-88
72. V.R. Chinchamatpure and **G. N. Chaudhari**, Electrical characterization and XPS study of ZrO_2 thin films on Si(100) for MOS application BIONANO FRONTIER, NCANDT(spl) , (2011) pp-97-100,
73. **G. N. Chaudhari**,V.R. Chinchamatpure, S.A. Ghosh, Structural and Electrical characterization of GaN thin films on Si(100) , American Journal of Analytical Chemistry, 2, 2011, pp 984-988,
74. P. A. Murade, V. S. Sangawar, **G. N. Chaudhari**, V. D. Kapse, A. U. Bajpeyee, Synthesis and gas sensing performance of ZnO particlesprepared by hydrothermal decomposition route, Proceedings of International conference on Nanoscience, Engineering and Advanced Computing, Swarnandhra College of Engineering and Technology, Seetharampuram, Narsapur, Dist: West Godaw (2011) Pages 534-537, , 978-81- 8465- 683-1
75. A. U. Bajpeyee, B. H. Pawar, **G. N. Chaudhari**, F. C. Raghuwanshi, V. D. Kapse, P. A. Murade, Temperature and frequency dependence of dielectric constant of $Pb_{0.5}Ca_{0.5}TiO_3$ films on quartz, Proceedings of

International conference on Nanoscience, Engineering and Advanced Computing, Swarnandhra College of Engineering and Technology, Seetharampuram, Narsapur, Dist: West Godawari (AP) July 08-10, 2011, 978-81- 8465- 683-1

76. H. G. Wankhade, S.S. Patil and **G.N. Chaudhari**, Electrical characteristics of nanocomposite Sr_2CoO_4 based ammonia gas sensor , Nanotrends Vol.11 no.3, 2011
77. A.U. Bajpeyee, B.H. Pawar, **G. N. Chaudhari**, ,V. D. Kapse,, P. A. Murade, Preparation of nanostructured $\text{Fe}_{2.939}\text{O}_4$ ceramic, BIONANO FRONTIER, NCANDT(spl) 2010, pp 195-197
78. A.U. P. A. Murade , V.S. Sangawar, **G. N. Chaudhari**, V. D. Kapse Bajpeyee, Preparation and ac electrical conductivity of nanocrystalline LaFeO_3 , BIONANO FRONTIER NCANDT(spl) 2010, pp 188-190 .
79. A.B. Bodade, Minaz Alvi, N.N. Gedam, H.G. Wankhade and **G N Chaudhari**, Structural, Electrical Properties of Nanocrystalline Co Doped $\text{La}_x\text{Ce}_{1-x}\text{O}_2$ for Gas Sensing Applications. , Sensor and Transducer 122,(2010) pp. 55-65
80. P. A. Murade,V. S. Sangawar,**G. N. Chaudhari**, V. D. Kapse, A. U. Bajpeyee, Synthesis and gas sensing performance of ZnO nanoparticles prepared by a hydrothermal decomposition route, Proceeding of International Conference On Nanoscience, Engineering And Advanced Computing (ICNEAC-2011), p.p. 534-537
81. A. U. Bajpeyee,B. H. Pawar,**G. N. Chaudhari**, F. C. Raghuwanshi, V. D. Kapse,P.A.Murade Temperature and frequency dependence of dielectric constant of $\text{Pb}_{0.5}\text{Ca}_{0.5}\text{TiO}_3$, p.p.- 554-556, Proceeding of international conference on nanoscience, engineering and advanced computing (ICNEAC-2011)
82. V.A. Bhugul, amd **G N Chaudhari**, Synthesis and Characterization of polyaniline-Blend by Insitu technique in non Aquous solvent Medium, Proceeding National Conference on Recent Researches in Chemistry: A journey Towards Social Upliftment, 14th to 15th February 2012 at Lokmanya Tilak Mahavidyalaya, Wani, ISBN No. 978-81-905776-12-1
83. P. A. Murade, V. S. Sangawar, **G. N. Chaudhari**, V. D. Kapse, A. U. Bajpeyee, Dielectric behavior of nanostructured LaFeO_3 , Proceedings of national conference on advances in material research, Khandelwal college, Akola February 26-27, 2010
84. S.M. Kemdeo, V.S. Sapkal , **G.N. Chaudhari**, Mixed Oxide Supported MoO_3 Catalyst: Preparation, Characterization and Activities in Nitration of o-xylene, Bulletin of chemical reactions Engineering and catalysis,5,(2010) 39-49

85. S.M. Kemdeo, V.S. Sapkal , **G.N. Chaudhari**, TiO₂-SiO₂ mixed oxide supported MoO₃ catalyst: physicochemical characterization and activities in nitration of phenol, *Journal of Molecular Catalysis. A, Chemical* 323,(2010), 70-77
86. A.B. Bodade, Minaz Alvi, A. V. Kadu and **G. N. Chaudhari** Microstructure and H₂S gas sensing properties of nanocrystalline perovskite-type La_{0.6}Co_{0.4}Mn_{0.5}Ni_{0.5}O₃, *Journal of Materials Science*, 45(2010) 5264-5270
87. V. R. Chinchamatpure, S. A. Ghosh, **G. N. Chaudhari**, Synthesis and Electrical Characterization of BaTiO₃ Thin Films on Si(100), *Materials Sciences and Applications*, 2010, 1, 187-190
88. P.A. Murade, V.S. Sangawar, **G.N. Chaudhari** , V.D. Kapse and A.U. Bajpeyee., Acetone gas sensing performance of Sr-doped nanostructured LaFeO₃ semiconductor prepared by citrate Sol-Gel route, *Current Applied Physics* 11(3) (2010) 451-456
89. S. V. Jagtap, A. V. Kadu, N. N. Gedam and **G. N. Chaudhari** Ammonia Gas Sensing Properties of Nanocrystalline Zn_{1-x}Cu_xFe₂O₄ Doped with Noble Metal *Sensors & Transducers Journal*, Vol. 122, Issue 11, November 2010, pp. 120-127
90. A.B.Bodade, Minaz Alvi, N. N. Gedam, H. G. Wankhade and **G. N. Chaudhari**, Structural, Electrical Properties Of Nanocrystalline Co Doped-LaxCe_{1-x}O₂ For Gas Sensing Applications, *Sensors & Transducers Journal*, Vol. 122, Issue 11, November 2010, Pp. 55-65, ISSN 1726-5479
91. S.M. Kemdeo, B.S. Deshmukh, V.S. Sapkal , **G.N. Chaudhari**, Characterization of mixed oxide supported MoO₃ catalysts and their activity measurement for nitration of benzene, *J. Optoelectronic and Advanced materials* 11(2009) 957-963
92. A.V. Kadu,S. V. Jagtap, **G. N. Chaudhari**, Studies on the preparation and ethanol gas sensing properties of spinel Zn_{0.6}Mn_{0.4}Fe₂O₄ nanomaterials, *Current Applied Physics*, 9 (6), (2009) pp. 1246-1251.
93. **G. N. Chaudhari**, N.N. Gedam, S.V. Jagtap, , S.V. Manorama,H₂S sensing properties of nanocrystalline Sr₂Fe_{0.6}Ni_{0.4}MoO₆ thick film prepared by sol-gel citrate method, *Talanta*, 77 (5), (2009) pp. 1675-1679.
94. N.N. Gedam., P.R. Padole, S.K. Rithe, **G.N.Chaudhari.**, Ammonia gas sensor based on a spinel semiconductor,Co_{0.8}Ni_{0.2}Fe₂O₄ nanomaterial, *Journal of Sol-Gel Science and Technology*, 50 (3), (2009) pp. 296-300.
95. N.N. Gedam , A.V. Kadu, P. R. Padole, A. B. Bodade, and **G. N. Chaudhari**. Structural Properties of Nanosized NiFe₂O₄ for LPG Sensor *Sensors & Transducers Journal*, Vol. 110(2009), pp. 86-95
96. S. M. Kemdeo, B. S. Deshmukh, V. S. Sapkal, **G. N. Chaudhari** Characterization of mixed oxide supported MoO₃ catalysts and their

- activity measurement for nitration of benzene, *Journal of Optoelectronics and Advanced materials* 11, 957(2009)
97. **G. N. Chaudhari.**, S.V Jagtap, N.N Gedam,M.J.Pawar, V.S Sangawar, Sol-gel synthesized semiconducting $\text{LaCo}_{0.8}\text{Fe}_{0.2}\text{O}_3$ -based powder for thick film NH_3 gas sensor, *Talanta*, 78 (3), (2009) 1136-1140
 98. V. R. Chinchamatpure, S. A. Ghosh, **G. N. Chaudhari**, Synthesis and Electrical Characterization of BaTiO_3 Thin Films on Si(100), *Materials Sciences and Applications*,1, (2010), 187-190
 99. A. B. Bodade Minaz Alvi A. V. Kaduand **G.N. Chaudhari** , Microstructure and H_2S gas sensing properties of nanocrystalline perovskite-type $\text{La}_{0.6}\text{Co}_{0.4}\text{Mn}_{0.5}\text{Ni}_{0.5}\text{O}_3$, *J Mater Sci* (2010) 45:5264–5270
 100. S.A. Ghosh, **G.N. Chaudhari**, F.C. Raghuwanshi, Nanocrystalline In_2O_3 -based H_2S sensors operable at low temperatures V.D. Kapse, *Talanta*, Volume 76, Issue 3, 30 July 2008, Pages 610-616.
 101. V.D. Kapse, S.A. Ghosh, **G.N. Chaudhari**, F.C. Raghuwanshi, D.D. Gulwade , H_2S sensing properties of La-doped nanocrystalline In_2O_3 Vacuum, 83 (2), 26 September 2008, Pages 346-352
 102. **G.N., Chaudhari**, M.J Pawar, Ethanol sensing performances of modified CoFe_2O_4 nanocrystals prepared by polymerizable complex route. *Journal of Optoelectronics and Advanced Materials*,10,(2008) pp. 2574-2577.
 103. V.D. Kapse, S.A., Ghosh, **G.N., Chaudhari**, F.C Raghuwanshi Nanocrystalline In_2O_3 -based H_2S sensors operable at low temperatures *Talanta*, 76 (3), (2008) pp. 610-616.
 104. S.H. Deshmukh, D. K. Burghate, S. N .Shilaskar, **G. N. Chaudhari**, P.T. Deshmukh, Optical properties of polyaniline doped PVC-PMMA thin films., *Indian Journal of Pure and Applied Physics*, 46, (2008) pp. 344-348.
 105. S.V., Jagtap, A.V., Kadu, V.S., Sangawar, S.V.Manorama, **G.N. Chaudhari**, H_2S sensing characteristics of $\text{La}_{0.7}\text{Pb}_{0.3}\text{Fe}_{0.4}\text{Ni}_{0.6}\text{O}_3$ based nanocrystalline thick film gas sensor, *Sensors and Actuators*, B: Chemical, 131 (1), (2008) pp. 290-294.
 106. A.B Bodade,. A.M Bende, **G.N.Chaudhari**, Synthesis and characterization of CdO-doped nanocrystalline $\text{ZnO}:\text{TiO}_2$ -based H_2S gas sensor, *Vacuum*, 82 (6), (2008) pp. 588-593.
 107. **G.N., Chaudhari** , A.B. Bodade, S. V Jagtap,., M.J.Pawar, CO Sensing Properties of Nanostructured $\text{La}_{0.8}\text{Sr}_{0.2}\text{CoO}_3$ Sensors Synthesized by EDTA-Glycol Method *Sensors & Transducers Journal*, Vol. 98 (2008) pp. 26-37
 108. A.B Bodade,M.Alvi, , A. V Kadu., S. V., Jagtap, S. K Rithe, P. R. Padole, **G.N. Chaudhari**, Synthesis of Nanocrystalline SnO_2 Modified TiO_2 : A

Material for Carbon Monoxide Gas Sensor, *Sensors & Transducers Journal*, Vol. 98 (2008) pp. 6-15

109. A.B. Bodade, A.V Kadu, **G.N.Chaudhari**, Preparation and structural characterization of nanosized $\text{BiFe}_{0.6}\text{Mn}_{0.4}\text{O}_3$ as a novel material with high sensitivity towards LPG , *Journal of Sol-Gel Science and Technology*, 45 (1), (2008) pp. 27-33.
110. S.V. Jagtap, A.V. Kadu, V.S. Sangawar, S.V. Manorama, **G.N. Chaudhari**, H_2S sensing characteristics of $\text{La}_{0.7}\text{Pb}_{0.3}\text{Fe}_{0.4}\text{Ni}_{0.6}\text{O}_3$ based nanocrystalline thick film gas sensor, *Sensors and Actuators B*, 131 ,290-294(2008),
111. A.B. Bodade, M. Alvi, A. V.Kadu, S. V.Jagtap, S. K. Rithe, P. R. Padole and **G. N. Chaudhari**, Synthesis Of Nanocrystalline SnO_2 Modified TiO_2 : A Material For Carbon Monoxide Gas Sensor, *Sensors & Transducers Journal*, Vol. 98, Issue 11, November 2008, Pp. 6-15, ISSN 1726-5479
112. A.B. Bodade, A.M. Bende, **G.N. Chaudhari**, Synthesis and characterization of CdO-doped nanocrystalline $\text{ZnO}:\text{TiO}_2$ -based H_2S gas sensor , *Vacuum*, Volume 82, 2008, Pages 588-593
113. V. Kadu, N. N. Gedam and **G. N. Chaudhari**, Detection of Hydrogen Sulphide Gas Sensor Based Nanostructured $\text{Ba}_2\text{CrMoO}_6$ Thick Films , *Sensors & Transducers* Vol. 85, Issue 11, November 2007, pp.1728-1738
114. **G. N. Chaudhari**, LPG- sensing properties of perovskite $\text{BiFe}_{0.6}\text{Mn}_{0.4}\text{O}_3$ Nanomaterials, *Journal of Optoelectronics and Advanced Materials* Vol. 9, No. 7, July 2007, p. 2270 – 2274
115. V. P. Sondankar and **G. N. Chaudhari**, Preparation and characterization of AlN thin films deposited on Si(100) using single source precursor *Optoelectronics and Advanced Materials* Vol. 1, No. 10, October 2007, p. 520 – 522
116. A. V. Kadu, N. N. Gedam and **G. N. Chaudhari**, Detection of Hydrogen Sulphide Gas Sensor Based Nanostructured $\text{Ba}_2\text{CrMoO}_6$ Thick Films , *Sensors & Transducers* Vol. 85, Issue 11, November 2007, pp.1728-1738
117. **G. N. Chaudhari**, A.M.Bende and A.B. Bodade, Nanosized TiO_2 doped ZnO –based LPG sensor, *NanoTrends, A Journal of Nanotechnology and Its Applications*, 1(2006),45.
118. **G.N.Chauhdari**, D.R. Bambole and A.B.Bodade, Structural and gas sensing behaviour of nanocrystalline BaTiO_3 based liquid Petroleum gas sensors., *Vacuum*, 81(2006)251-256..
119. **G. N. Chaudhari**, P. R. Padole, S. S. Patil, U.S. Khandekar, V. S. Sapkal and S. V. Manorama , Effect of additives on Al_2O_3 based LPG sensors, *Indian Journal of Engineering and Materials Science*, 13, (2006), 87-90

120. **G. N. Chaudhari**, D.R.Bambole, A.B. Bodade and P.R. Padole Characterization of nanosized TiO₂ based H₂S gas sensor, Journal of Materials Science 41 (2006),4860–4864
121. **G. N. Chaudhari**, A.M. Bende, A.B. Bodade, S.S.Patil and S.V.Manorama, Detection of Liquid Petroleum Gas using mixed nanosized tungsten oxide - based thick film semiconductor sensor. Talanta 69(1), 187-191(2006).
122. **G. N. Chaudhari**, A. M. Bende, A. B. Bodade, S. S. Patil and V.S. Sapkal, Structural and gas sensing properties of nanocrystalline TiO₂:WO₃-based hydrogen sensors, Sensor and Actuators B115(1),297-302 (2006).
123. **G. N. Chaudhari**, P.R.Padole, A.B. Bodade and V.S. Sapkal, Sensitivity and selectivity of chemically modified SnO₂ based CO sensors , Indian Journal of Physics 79(10),1157-1162,(2005).
124. S. M. Chore, **G. N. Chaudhari**, S. V. Manorama and A. Bath., Structural and Electrical properties of cubic Boron nitride on GaAs, Semiconductor Science and Technology, 15, 217 (2002).
125. **G. N. Chaudhari**, S. Manorama and V. J. Rao, Study of the interface of ZnSe / GaAs (110) heterostructure, Indian Journal Engineering and Material Science, 3, 215 (1996)..
126. R. Phani, **G. N. Chaudhari** and S. Manorama., Hot filament Assisted Electron beam deposition of crystalline cubic Boron nitride thin films, Journal of Solid State Chemistry 128, 99 (1995).
127. **G. N. Chaudhari**, A. R. Phani and S. Manorama , Electron beam assisted hot filament chemical vapour deposition of microcrystalline cubic Boron Nitride thin films. Appl.Phys. A, 52, 269, (1995).
128. **G. N. Chaudhari** and V. J. Rao, Improvement of the interface properties of Ca_{0.43} Sr_{0.57}F₂ on (100) GaAs by rapid thermal annealing.Semiconductor Science and Technology 10, 703 (1995).
129. **G. N. Chaudhari** and V. J. Rao, Calcium fluoride thin films on GaAs(100) substrates for possible Metal Insulator Semiconductor applications. Appl. Phys. Lett., 62, 852, (1993).
130. **G. N. Chaudhari** and V. J. Rao, Electrical properties of SrF₂ on GaAs(100) interfaces, Semiconductor Science and Technology 8, 412 (1993).
131. **G. N. Chaudhari** and V. J. Rao, Electrical properties of polyimide on n-GaAs(100) interfaces by pulsed Laser evaporation techniques, Appl. Phys. A. 56, 353, (1993).

132. S. Manoama, **G. N. Chaudhari** and V. J. Rao, Growth of boron nitride by hot filament assisted electron beam deposition, J. Phys. D: Appl.Phys. 26, 1793, (1993).
133. **G. N. Chaudhari**, S. Manorama and V. J. Rao, Studies on thin films of ZnSe on GaAs heterostructure prepared by a Chemical deposition method, J. Phys. D: Appl. Phys. 25, 862(1992).
134. **G. N. Chaudhari**, S. Manorama and V. J. Rao, Deposition of $ZnS_{0.056}Se_{0.944}$ thin films on GaAs (110) substrates: A new chemical growth technique, Thin Solid Films, 208, 243 (1992).
135. **G. N. Chaudhari**, S. D. Sathaye, P. Singh, V. J. Rao, S. Manorama, R. S. Bhide, and V. Boraskar, Studies on the films of ZnSe prepared by a chemical deposition method, J. Materials Science Lett. 1097 (1992).
136. **G. N. Chaudhari**, S. N. Sardesai, S. D. Sathaya and V. J. Rao., Structural properties of ZnS_xSe_{1-x} thin films on (100) GaAs substrates, J. Materials Science, 27, 4647 (1992).
137. V. J. Rao and **G. N. Chaudhari**, Epitaxial growth of lattice-mismatched SrF_2 thin films on GaAs(100), Appl. Phys. A54, 284, (1991).
138. **G. N. Chaudhari** and V. J. Rao, Electrical properties of polyamide on GaAs(100) interfaces by pulsed laser evaporation techniques, Physica Status Solidi A, 128, K57, (1991).
139. S. Said, A. B. Ogale, **G. N. Chaudhari** and V. J. Rao, Epitaxial growth of CaF_2 on GaAs(100) by pulsed laser ablation technique, Materials Letters 12, 335 (1991).

PAPER PRESENTED/ATTENDED IN SYMPOSIA/ WORKSHOP:

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1. **G. N. Chaudhari**, S. N. Sardesai, S. D. Sathaye, S. Badrinarayan, A. B. Mandale, P. Sing, and V. J. Rao, Growth, Morphology and Electronic structures of ZnSe/GaAs heterostructure. Paper presented at first AGM of material Research Society of India, Pune (1990).
2. Attended workshop on "Surfaces and Interfaces at Centre for advanced studies in Materials Science and Solid State Physics", Department of Physics, University of Pune, Pune, India, 2-11th Jan, 1991.
3. **G. N. Chaudhari** and V. J. Rao, Epitaxial growth of lattice matched $Ca_{0.43}Sr_{0.57}F_2$ on GaAs (100) Paper presented at III AGM of Materials Research Society of India, Bangalore. (1992)
4. **G. N. Chaudhari**, S. Manorama, S. Roy, and V. J. Rao, Structural properties of epitaxial GaN thin films deposited on Si and GaAs

- Paper presented at III, AGM of Materials Research Society of India, Bangalore (1992).
5. **G.N. Chaudhari** and S.M. Chore, Structural and electrical properties of BN on GaAs(100), Paper presented at International Congress of Chemistry and Environment , 16th- 18th December 2001, Indore,
 6. Attended one day workshop on Assessment and Accreditation of Colleges held on 28th Feb 2002 at S.N.D.T. Women's University, Mumbai
 7. **G.N. Chaudhari** and U.S. Khandekar, Effect of additives on metal oxide for gas sensor application, Paper presented in 14th AGM of Materials Research Society of India at BARC, Mumbai ,11-13th Feb,2003.
 8. **G.N. Chaudhari** and D. R. Bambole, Structural properties of TiO₂ based gas sensor, Paper presented in "Emerging trends in Chemical Sciences in the New Millennium" at Shri Shivaji Science College, Amravati, 5-7th Feb, 2003.
 9. D. R. Bambole, A. B. Bodade and **G.N. Chaudhari**, Improvement of TiO₂ based H₂S Gas Sensor , Paper presented in 15th AGM of Materials Research Society of India at National Chemical Laboratory, Pune 10-12th Feb,2005
 10. S. S. Patil, **G. N. Chaudhari** and V. S. Sapkal , Chemically Modified TiO₂ based CO sensor, Paper presented in 15th AGM of Materials Research Society of India at National Chemical Laboratory, Pune,10-12th Feb,2005
 11. P. R. Padole, Minaz Alvi, **G. N. Chaudhari**, S.V. Manorama Sensitivity and Selectivity of CO Sensor based SnO₂:Bi₂O₃, Paper presented in 15th AGM of Materials Research Society of India at National Chemical Laboratory, Pune, 10-12th Feb, 2005
 12. S. M. Kemdeo and **G. N. Chaudhari** Preparation and Physicochemical Characterization of Cobalt Oxide Supported ZrO₂-TiO₂ Mixed Oxide Catalysts ,Paper presented in 15th AGM of Materials Research Society of India at National Chemical Laboratory, Pune, 10-12th Feb,2005.
 13. D.R. Bambole, A.B. Bodade and **G.N. Chaudhari**, Gas sensing behaviour of nanocrystalline BaTiO₃ -based LPG sensors, Paper presented in International conference on MEMS and semiconductor nanotechnology at Indian Institute of Technology, Kharagpur, India, December 20-22,2005, pp 199.
 14. A.V. Kadu and **G.N. Chaudhari**, Hydrogen Sulphide Based Ba₂CrMoO₆ Nanocrystalline Thick Film Semiconductor Gas Sensor, Paper presented at 15th AGM of "Material Research Society of India (MRSI)" Symposium held on 12-14 Feb. 2007 at NPL, New Delhi.
 15. **G.N. Chaudhari**, A.V. Kadu , S.V. Jagtap , A.B. Bodade ,N.N.Gedam CO₂ Sensing Mechanism of modified nanosized SmCoO₃ sensor, Paper presented at National conference on "Green Chemistry and its Perspective"

held on Feb.11-12 2008 at Dept. of chemistry, S.G.B.Amravati University, Amravati.

16. **G.N. Chaudhari**, A.V. Kadu, M.J. Pawar, S.V. Jagatap, A.B. Bodade Acetone sensing characteristics of nanosized $\text{Cr}_{2-x}\text{Ti}_x\text{O}_3$ sensors, Paper presented at National conference on "Green Chemistry and its Perspective" held on Feb.11-12 2008 at Dept. of chemistry S.G.B.Amravati University, Amravati.
17. A.V.Kadu and **G.N.Chaudhari**, Ethanol gas-sensing properties of spinel type $\text{Zn}_{0.6}\text{Mn}_{0.4}\text{Fe}_2\text{O}_4$ Nanomaterials, Paper presented at International Conference on "Nanomaterials and Applications" held on 9-11 Dec. 2008 at Shivaji University, Kolhapur.
18. A.V. Kadu, K. S. Choudhari and **G. N. Chaudhari**, LPG- sensing properties of Nickel doped Copper Chromite **Nanomaterials by Sol-Gel citrate method**, Paper presented at International Symposium of Material Chemistry held on 2-6 Dec. 2008 at BARC Mumbai.
19. N.N.Gedam and **G.N.Chaudhari**, Preparation and characterization of nanocrystalline $\text{Sr}_2\text{Fe}_{0.6}\text{Ni}_{0.4}\text{MoO}_6$ thick film based hydrogen sulfide gas. Paper presented at International Conference on "Nanomaterials and Applications" held on 9-11 Dec. 2008 at Shivaji University, Kolhapur.
20. S.V.Jagtap and **G.N.Chaudhari**, Sol-gel synthesized semiconducting $\text{LaCo}_{0.8}\text{Fe}_{0.2}\text{O}_3$ based powder for thick film NH_3 gas sensor, Paper presented at International Conference on "Nanomaterials and Applications" held on 9-11 Dec. 2008 at Shivaji University, Kolhapur.
21. A.V.Kadu, A.B. Bodade and **G. N. Chaudhari** Structural and gas sensing properties of $\text{Zn}_{0.6}\text{Mn}_{0.4}\text{Fe}_2\text{O}_4$ nanomaterial, Paper presented at International Conference on Nanomaterials held on 5-8th Jan, 2008 at Allahabad University, Allahabad
22. **G.N. Chaudhari**, et al., Sol gel synthesized nanocrystalline $\text{La}_{0.85}\text{Sr}_{0.15}\text{Mn}_{1-x}\text{Ni}_x\text{O}_3$ based ammonia gas sensor , Paper presented at National conference on Matrics: Atom to Molecule, 16th December 2011 Science College, Congress Nagar, Nagpur
23. **G.N. Chaudhari**, et al., Structural and Electrical characterizations of the LaMnO_3 nanocomposites thick films, Paper presented at National Workshop on Nanostructured Materials for Energy Devices and Environment, 17-18 August, 2011 Department of Physics, University of Mumbai
24. **G. N. Chaudhari**, et al., Synthesis and characterizations of Nanocrystalline CoFe_2O_4 Based H_2S Sensor, Paper presented at National Workshop on Nanostructured Materials for Energy Devices and Environment, 17-18 August, 2011, Department of Physics, University of Mumbai
25. **G. N. Chaudhari**, et al., Synthesis and Electrical characterization of GaN thin films on Si(100) Paper presented at Workshop on Nanostructured

Materials for Energy Devices and Environment, 17-18 August, 2011
Department of Physics, University of Mumbai

26. **G.N. Chaudhari**, et al., A.C. Conductivity studies in conducting polyaniline (PANI) composite film at low temperature, Paper presented at National Conference on Nano Science and Technology (NCNST-2011), February, 21-22, 2011 Department of Physics, Shri Shivaji Science College Nagpur
27. **G.N. Chaudhari**, et al., Studies of uni-bivalent ion exchange reactions using strongly acidic cation exchange resin Amberlite IR-120, Paper presented at National Conference on Emerging Trends in Nanoscience and Nanotechnology(NCNT), at Rajiv Gandhi college of Engineering and Research Nagpur on 20-21st December 2011
28. **G.N. Chaudhari**, et al., Structural and Electrical characterizations of the LaMnO₃ nanocomposites thick films. Workshop on Nanostructured Materials for Energy Devices and Environment, 17-18 August, 2011, at Department of Physics, University of Mumbai.
29. **G.N. Chaudhari**, et al., Sol gel synthesized nanocrystalline La_{0.85} Sr_{0.15} Mn_{1-x}Ni_xO₃ based ammonia gas sensor, National conference on Materials: Atom to Molecule, 16th December 2011, at Science College, Congress Nagar, Nagpur.
30. **G.N. Chaudhari**, et al., Electrical characteristics of nanocomposite Sr₂CoO₄ based Ammonia gas sensor PP-2, National Conference on Emerging Trends in Nanoscience and Nanotechnology (NCNT), 20-21st December 2011, at Rajiv Gandhi college of Engineering and Research Nagpur.
31. **G.N. Chaudhari**, et al., Structural and electrical conduction mechanism of nanocrystalline Cd doped LaFeO₃, Paper presented at National Conference on Technological innovations with environmental Integrity at HVPM Mandal College of engineering and Technology, Amravati on 28th February 2012,
32. **G.N. Chaudhari**, et al., Analysis of polluted water of the morna river. Akola District. Maharashtra, National conference on Watershed Management for sustainable development, Department of Geology, Shri Shivaji Science College, Amravati
33. **G.N. Chaudhari**, et al., Structural and electrical Characterization of sol gel synthesized MnO₂ based mixed oxides for supercapacitor applications, National Conference on Nanomaterials: New Horizon for Betterment of Mankind, Science College, Nagpur
34. **G.N. Chaudhari**, et al., Studies of uni-bivalent ion exchange reactions using strongly acidic cation exchange resin Amberlite IR-120, National seminar on Recent innovation in role of free radical on Global warning on 31st March 2012, at Mahatma Fule Arts, Commerce and Sitaramji Chaudhari Science Mahavidyalaya, Warud, Dist Amravati

35. **G.N. Chaudhari**, et al., Structural and electrical conduction mechanism of nanocrystalline Cd doped LaFeO_3 , Technological innovations with environmental Integrity 28th February 2012, at HVPM Mandal College of engineering and Technology, Amravati.
36. **G.N. Chaudhari**, et al., Synthesis and Characterization of PVA- $\text{Bi}_2\text{FeNiO}_6$ nanobiocomposites as urea sensor, National Conference on Frontier Area in Chemistry on 23-25 October 2013, at Shri Shivaji Science College Amravati
37. **G.N. Chaudhari**, et al., Synthesis and characterization of chitosan- PbO_2 nanobiocomposite as peroxide sensor, National Seminar on Trends in Nanobiotechnology on 4th January 2013 at Dept of Chemistry, Sant Gadge Baba Amravati University Amravati
38. **G.N. Chaudhari**, et al., Synthesis and Characterization of Cu doped ZnFe_2O_4 nanoparticles and their antimicrobial activity against human pathogens, Paper presented at National Seminar on Nanotechnology and Nanoengineering held on 29th September 2016 at Arts, Commerce and Science College, Kiran Nagar, Amravati
39. **G.N. Chaudhari**, et al., Glucose Biosensor based on Immobilization of glucose oxidase in lead titanate chitosan modified gold electrode for direct electrochemistry and glucose sensing, National conference on Chemical Sciences: Emerging scenario and challenges (NCCS-2016), Department of Chemistry at Sant Gadge Baba Amravati University, Amravati
40. **G.N. Chaudhari**, et al., Synthesis and antimicrobial activity of some novel complex of benzathiozole derivatives, Paper presented in National conference on Novel synthesis of advanced materials and their applications at Art's, commerce and Science College, Maregaon(Road) on 16th Feb. 2015
41. N. H. Bansod, **G. N. Chaudhari**, A.B.Bodade, Synthesis, Characterization of nano structured Co doped nickel oxide for the application glucose biosensor, Paper presented in 5th International conference on Engineering Technology, Science and Management Innovation on 30th April 2017.

