

CURRICULUM VITAE

Dr.CHAKRADHAR B

H.NO.1-11-56/50

Devaru Colony

Raichu-584101.

Karnataka, India.

Email: chakradhar.lvd@gmail.com

Contact No: +91- 9845479341



EDUCATION QUALIFICATION:

- **Ph.D** in Physics from Gulbarga University, Kalaburagi. Awarded in the year 2016.
- **Master of Science (M.Sc)** in physics from Gulbarga University, Gulbarga in the year 2010.
- **Bachelor of Science (PCM)** from Gulbarga University, Gulbarga in the academic year 2005.

EXPERIENCE

- 5 Years teaching experience as Associate Professor in AMC Engg. College, Bangalore.
- 3 Years teaching experience as Assistant Professor in MSS Degree College, Gulbarga.

Research Experience:

➤ **Research Specialization:**

1. Synthesis of Conducting Polymers and its Composites – Understanding the electrical properties of the materials at Nano Size.
2. Sensing behaviors of various conducting polymers exposed to gas.

➤ **Area in which Ph.D is Pursued:**

Studies on conducting polymer-NanoMetal oxide composites

Synthesis of Nanometal oxide and impregnate them in a few representative class of conducting polymers to generate conducting polymer metal oxide nanocomposite (Nanostructured Materials) for their possible application as gas sensor materials has been done in the present Ph.d work, The materials to be studied in this are Nanostructured Materials, with structure on length scale from 50-100 nm and such materials often have unique physical properties including Electrical, Chemical structural & Sensor properties. The motivation of doing this work is that these materials have potential application such as information storage, Color imaging, Bio-processing, Magnetic refrigeration, Ferro fluids

quantum dots as well as humidity and gas sensor material. Nanostructured Materials exhibit a unique type of disorder, with very low energy regions (crystallites) existing at the expense of higher energy boundary interface or surface regions. These are called as heterogeneous disorder, in the contrast to the homogeneous disorder of structural glasses. In addition to their application as gas sensor material in sensing the gases such as H₂O, NH₃, CH₄, (LPG), & Ethanol have been investigated. The sensing behavior can be understood by the morphology as well as its electrical properties. Among the conducting polymers, Polyaniline is selected as it is promising due to its ease of preparation high environmental stability and its special properties such as humidity and gas sensing which would be investigated in my work.

RESEARCH PUBLICATIONS

1. "Synthesis, Spectral Characterization, and Antibacterial and Antifungal Studies of PANI/V₂O₅ Nanocomposites", **Chakradhar Sridhar B**, Nagesh Gunvanthrao Yernale, and M. V. N. Ambika Prasad, Hindawi Publishing Corporation, International Journal of Chemical Engineering, (2016) Article ID 3479248
2. "Synthesis, characterization, Electrical and Sensor Behavior of PANI/In₂O₃ Nano Composites", **Chakradhar Sridhar B**, Sasikala M, Jakeer Husain, M.V.N, Pradeep and M.V.N. Ambika Prasad, Ferroelectrics, 506(2016)
3. "Impedance and Dielectric Properties of PANI/V₂O₅ Nano Composites", **Chakradhar Sridhar B** and M.V.N. Ambika Prasad, Journal of Advanced Physics.
4. "Studies on DC Conductivity and LPG Sensing Behavior of PANI/V₂O₅ Nanocomposites", **Chakradhar Sridhar B**, Jakeer Husain and M.V.N. Ambika Prasad; IJAET, 7(2014) 532-543.
5. "Electrical and Sensor Behavior of Polyaniline /Neodymium Composites", **Chakradhar Sridhar B**, Joshi Purushottam V, M V N Ambika Prasad, IJSR, 5(2016)1174.
6. "Synthesis, Characterization and DC Conductivity Studies on Polyaniline/ZnO Composites", G.K. Vinayak, **Chakradhar Sridhar B**, Jakeer Hussain and M. V. N. Ambika Prasad, **Ferroelectrics**, 486(2015) 106–113.

7. "Characterization and DC Conductivity of Novel ZnO Doped Polyvinyl Alcohol (PVA) Nano-Composite Films Chivukula Srikanth , **B.Chakradhar Sridhar**, M. V. N. Ambika Prasad , and R. D. Mathad: Journal of Advanced Physics 5(2016) 1–5.
8. "Synthesis, Characterization and Dielectric Behaviour of Polyaniline/In₂O₃ Composites", G. K. Vinayak, **B. Chakradhar Sridhar**, Jakeer Hussain, and M. V. N. Ambika Prasad; Journal of Advanced Physics 5(2016) 1–5
9. "Synthesis, Characterization and Electrical Properties of Polypyrrole-NiO Composites Syeda Seema, **B. Chakradhar Sridhar**, and M. V. N. Ambika Prasad, Journal of Advanced Physics, 5(2015)1–4.
10. "Synthesis, Characterization, Electrical and Sensing Properties of Polyaniline/Zinc Oxide Nanocomposites Jakeer Husain , Aashis S. Roy, **B.Chakradhar Sridhar**, M. Sasikala, and M. V. N. Ambika Prasad, Journal of Advanced Physics, 4(2015) 1–7.
11. "Studies on Properties and Fabrication of Polyaniline/Zinc Ferrite Nanocomposites; Jakeer Husain, **B. Chakradhar Sridhar**, and M. V. N. Ambika Prasad, Journal of Advanced Physics, 4(2015)1–6.
12. "Synthesis, Sensing and Magnetic Properties of Polyaniline/Nickel Oxide Nanocomposites, Jakeer Husain, **Chakradhar Sridhar B**, M.V.N.Ambika Prasad, IJAET , 7(2014)620-626.
13. "Studies on Electrical and sensing properties of Polyaniline/Iron oxide (Y-Fe₂O₃) Nanocomposites", Jakeer Husain, **Chakradhar Sridhar B**, M.V.N.Ambika Prasad, IJERA, .4(2014)198-202.
14. "Characterization and DC Conductivity of novel NiO doped Polyvinyl Alcohol (PVA) Nano-composite films", Chivukula Srikanth, **Chakradhar Sridhar B**, B.M.Nagabhushana and R.D.Mathad, IJAIEEM, 03(2014)200-208.
15. "Characterization and DC Conductivity of Novel CuO doped Polyvinyl Alcohol (PVA) Nano-composite Films", Chivukula Srikanth, **Chakradhar Sridhar B**, B.M.Nagabhushana and R.D.Mathad, IJERA, 4(2014)38-46.

16. "DC conductivity Studies on Polyaniline/Copper Oxide Composite", Jakeer Husain, **Chakradhar Sridhar B**, M. V. N. Ambika Prasad, IJARBAS, 1(2014).
17. "Synthesis, Characterization and Transport Properties of PANI with CdO Composites, Manjula V T, Basavaraja Sannakki, MVN Ambika Prasad and **Chakradhar Sridhar**: International Journal of Science, Technology & Management , 04(2015).
18. "AC Conductivity and dielectrical property of ZnO doped Polyaniline composite: Manjula V T, Sannakki Nagaraj, **Chakradhar Sridhar**, Sharanabasamma M Ambalagi, M V N Ambika Prasad and Basavaraja Sannakki; International Research Journal of Natural and Applied Sciences , 2(2015).
19. "Synthesis, Characterization and DC Conductivity Studies of NaCF₃SO₃ -PEO Doped Polyaniline Complexes", Joshi Purushottam V, **Chakradhar Sridhar B**, M. V. N. Ambika Prasad, S. Ramana Murthy, P. S. Naik, . Int. Journal of Engineering Research and Applications, 5(2015)129-133.
20. "Dielectric and AC Conductivity Studies of NaCF₃SO₃ - PEO Doped Polyaniline Complexes", Joshi Purushottam V, **Chakradhar Sridhar B**, M V N Ambika Prasad, P S Naik, IJSR, 4(2015)1618-1621.
21. "Characterization and AC Conductivity of novel ZnO doped Polyvinyl Alcohol (PVA) Nano-composite films", Chivukula Srikanth , **B.Chakradhar Sridhar** and R. D. Mathad, IJCPS, 4(2015)78-88.
22. "AC conductivity studies of polyaniline/cuo composites": Hajeebaba k Inamdara, Sasikala.Mb, **Chakradhar Sridhar B**, Basavarajasannakki and M.V.N..Ambika Prasad; Indian J.Sci.Res. ISSN: 2250-0138(Online) 17(1) :(2017)30-33.
23. "Synthesis and Dc Conductivity Studies of Polyaniline/Cuo Composites", Hajeebaba k Inamdara, Sasikala.M, **Chakradhar Sridhar B**, and M.V.N.Ambika Prasad: Trends in Advanced Materials and their Application (TAMA-2017), 30.11.2017, ISBN No.978-93-82694-44-1 Page No.42-43.

24. “SYNTHEISIS, CHARACTERIZATION AND AC CONDUCTIVITY STUDIES OF POLYANILINE/NIO NANOCOMPOSITES”Hajeebaba K Inamdar1, B.Chakradhar Sridhar, Srikanth Chivukula, Vinayak G K, Manjunatha.B , M.Sasikal and M.V.N. AmbikaPrasad,International Journal of Recent Innovation in Engineering and Research Volume: 03 Issue: 04 April – 2018 (IJRIER).
25. “Structural and Optical Properties of Polypyrrole/NiO Doped Nanocomposites”,Hajeebaba K. Inamdar, **B. Chakradhar Sridhar**, M. Sasikal, M.V.N. Ambika Prasad,J. Nanosci. Tech. - Volume 4 Issue 3 (2018) 400–401.

Seminar/workshop/ConferenceParticipated&Paper Presented at National and International Conference level.

- [1].**Participated** in the Three Days Workshop on Research Methodology held at Gulbarga University, Gulbarga from 2nd to 4th January 2014.
- [2].**Participated** in Two days KSTA Regional Conference on Science & Technology for Development, organized by school of Earth Science, Central University of Karnataka, Gulbarga during 30th& 31st January 2014.
- [3].**Attended** the complimentary seminar on MATLAB®& Simulink® for Engineering Education on 18th February 2014.
- [4].**Participated** in National Seminar on “Radiation Physics” organized by the Department of Physics, Gulbarga University, Gulbarga during 25th& 26th March 2014.
- [5].**Participated:** International Seminar on “Frontiers of Ceramic and Material Technologies for Cement Industries”, Held on 17th&18th November 2014 at PDA college of Engineering, Gulbarga.
- [6].**Participated:** Karnataka Science and Technology Academy Conference on” Science and Society”, on 16th& 17th January 2015, atVeerashaivaCollege,Ballari.
- [7].**Participated** in the UGC& KSTA Sponsored Two days National Conference on Adavanced Nanotechnology and its Application (NCOANA 2015) held at Maharani’s Science College for women, palace Road, Banglore-560001 on 22nd& 23rd January 2015.

And paper **presented** entitled Dielectric properties of PANI/V₂O₅ Nano composites.

- [8]. **Participated** in Two days KSTA Conference on Science & Technology for Disaster Management, organized by school of Earth Sciences, Central University of Karnataka, Kadaganchi, Kalaburagi on 22nd & 23rd January 2015.
- [9]. **Participated** in UGC Sponsored Two days National Seminar on Advance in soft Matter and Low Dimensional Materials held at P.C. Jabin Science College, Hubballi, Karnataka on 20th and 21st February 2015.
- [10]. **Paper presented** in Recent advances in Materials science & manufacturing Engg. held on Jan 30th-31st 2015 in the department of Mechanical Engineering, Gethajali college of Engineering & Technology.
- [11]. **Participated** in the celebration of International Year of Crystallography 2014 held on March 27th & 28th 2015 at Gulbarga University, Kalburagi .
- [12]. **Paper presented** in the National Conference on Advanced “Drug Discovery and Development in Chemistry-Applications in Pharma Industry-(DDDC-2015)” held at Department of Chemistry, Sri Venkateswara University, Tirupati on 14th & 15th September 2015. And paper presented entitled “Synthesis, Characterization and Biological studies of Vanadium pentoxide/Polyaniline Nanocomposites”.
- [13]. **Participated** in the 8th KSTA Annual Conference on Science and Technology for GenNext Urban Space, Jointly organized by Karnataka science and Technology and Bangalore Institute of Technology held at the Bangalore Institute of Technology on 5th and 6th November, 2015.
- [14]. **Attended:** One day National Symposium on “Advances in Chemical Sciences”, held at the Gulbarga University, Kalaburagi-585106, on 11th March 2016.
- [15]. **Attended:** KSTA conference on “Energy, Climate Change and Environment” Organized by the school of earth science, Central University of Karnataka, Kadaganchi on 29th & 30th January 2016.

- [16]. **Participated:** A Three day faculty development programme on “Scope of Nanoscience in Engineering and Technology-2017” (SNET-2017):, Held at BMS Institute of Technology & Management, Bengaluru from 30th Jan to 1st Feb 2017.
- [17]. **Paper Presented:** Two-Day National Conference on “Recent Advances in Physical and Mathematical Science”:(RAPMS-2018), organized by the Department of Physics and Mathematics under IQAC, Held on 26th&27th March 2018 at Government First Grade College Afzlpur-585301.1.Paper: “Sensor Behavior of Pani/Ga2O3 Nano Composites”.
2. Paper: “Electrical Behavior of PANI/MgO Composites” .3.Paper: “Synthesis, Characterization and AC Conductivity Studies of Polyaniline/NIO Nanocomposites”.
- [18]. **Attended:** Work Shop on “**New Model Curriculum for First year BE/B.Tech-CBCS Detailed Syllbus (2019-19) As Per Outcome –Based Educatio (OBE) format incuding course Outcomes (CO) and Bloom’s Taxonomy**” Under Bord held on 05/07/2018 at BIT Bengaluru Organized by Visvesvaraya Technological University, Belagavi.
- [19]. **Attended :** Faculty Development Programme on NBA Awareness &Quiklrn Enabled TLP on 02, March 2019 at AMC Engineering College, Bengaluru.
- [20]. **Attended:**Six-days AICTE sponsored FDP on “Computational Science in Engineering at RV College of Engineering during 15th to 20th July 2019

PERSONAL PROFILE

Name	:	Dr.Chakradhar B
Father’s Name	:	Sridhar B
Sex	:	Male
Nationality	:	Indian
Marital Status	:	Married
Date of Birth	:	30 –Oct- 1984
Languages Known	:	Kannada, English, Hindi and Telugu.