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VINOD SURESH KALYAMWAR

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Present position:

- Assistant Professor, Department of Physics, Bharatiya Mahavidyalaya, Rajapeth, Amravati.

Educational Details:

Sr. No.	Degree	Specialization /Subjects	Board / University	Year
1	**M.Sc.**	Physics (Condense Matter Physics)	SGB Amravati University Amravati	2005
2	**Ph.D.**	Physics, Title ' Synthesis & Gas Sensing performance of nanostructure Zinc Oxide.'	SGB Amravati University Amravati	2013
3	**SET**	Physical Science	Pune University	2006
4	**B.Sc.**	Physics, Mathematics, Chemistry	SGB Amravati University Amravati	2003
5	**H.S.C.**	General Science	Amravati Board	2001
6	**S.S.C.**	General	Amravati Board	1999

Experience:

Teaching Experience: **UG: 12 years 3 Month** **PG: 01 years**

- One year four month teaching experience at Shrankarlal Khandelwal Arts, Science & Commerce College, Akola as Assistant Professor (Graduate Level) form 13th Aug 2007 to 19th Des 2008.
- As Assistant Professor (Graduate Level) form 20th Des 2008 onward at Bharatiya Mahavidyalaya, Amravati.

- One year at Vidyabharati Mahavidyalaya, Amravati as CHB Lecturer (Post-Graduate level) 2005-2006.
- One Year at Shivramji Moghe Arts, Commerce & Science College, Pandharkawada as CHB Lecturer (Graduate Level) 2006-2007.

Research Experience:

- **07** years

Research Guide Experience:

- **No of M.Sc. Project - 01**

Research Project:

Title of the Project	Status	Funding Agency Lett. No. Remark
Synthesis and gas sensing characters of ZnO Nanoparticles with porous Morphology	**Completed**	**UGC File No. 47-1266/09 (WRO)**
Gas sensing properties of Pure and Surface activated nanostructured Zinc Oxide based Thick Films	**Ongoing**	**UGC File No.47-1065/14 (WRO)**

Current Area of Research:

- Synthesis and Characterization of nanostructure materials for Gas Sensors.
- Synthesis and Characterization of Conducting polymers.

Place of Research

- Dept. of Physics, Bharatiya Mahavidyalaya, Amravati.

Foreign country Visit:

- China, Wuhan to present the research paper in 12th Asian conference on Solid State Ionics during May, 2010.

Publications in International Journals:

1. **Zinc Oxide Nanostucture Thick Films as H_2S Gas Sensors at Room Temperature, Journal of Sensor Technology, 2013, Vol. 3, Pages 31-35.**

2. **TiO_2 modified ZnO thick film resistors as ammonia gas sensors, Advance Materials Letters, 2013, Vol. 4, Issue 12, Pages 895-898.**
3. **Zn_2SnO_4 modified ZnO thick film resistors as LPG sensor, International Journal of Basic and Applied Research, 2013, Vol. 4, Pages 289-296.**
4. **Electrical Conductivity of Surface Activated Nanostructure ZnO Thick Films, International Journal of Basic and Applied Research, 2013, Vol. 4, Pages204-207.**
5. **Synthesis of nanocrystalline mg0.5cd0.5al2o4 for lpg sensing, 2017, multilogic Science Vol.6 Issue XIX**
6. **CuO modified ZnO thick film resistors for H_2S sensing operable at room temp, International Journal for engineering application and technology,2016, Issue 2 vol. 3 pages 82-85**
7. **Synthesis of Nano structure Zinc Oxide by Spray Pyrolysis and its Characterization for Gas Sensing Application, 2015, International Journal of Electrical Engineering Issue 2 Vol. 3 pages 12-17**
8. **Study of Ammonia gas sensor based on SnO2 and ZnO nanoctrystalline composite Material, International Journal of current engineering and scientific research, Volume 5, Issue 1, 2018 pages 199-208**
9. **Preparation & Characterization of FE2O3 Modified Nan crystalline Cr2O3 Based Thick Films, International Journal of current engineering and scientific research, Volume 5, Issue 1, 2018 pages 320-323**
10. **Synthesis and Chracterization of SnO2 –ZnO composites nano particles, International Journal of Scientific Research in Science and Technology, Volume 4, Issue 1, 2018 pages 286-289**
11. **Synthesis and characterization of Nanocrystalline Zn doped Magnesium ferrite via sol-gel route, , International Journal of Scientific Research in Science and Technology, Volume 4, Issue 1, 2018 pages339-343.**
12. **Synthesis & Characterization of CdO-CuO nanocomposite by sol-gel method, , International Journal of Scientific Research in Science and Technology, Volume 4, Issue 1, 2018 pages 344-346.**
13. **Synthesis and characterization of CdO nanopoarticles by microwave assisted irradiation technique, International Journal of current engineering and scientific research, Volume 5, Issue 1, 2018 pages 128-130**
14. **Characterization of pure nanostructure ZnO and its application as gas sensor, Journal of Pure Applied and Industrial Physics, Volume 5, Issue 2, 2015, pages 47-56**

Paper Presentation in National & International conferences:

1. ***Effect of Temperature of Polymerization on Conductivity and morphology of polyaniline***, 12th Asian conference on solid state ionics, Wuhan, China (2010) 11
2. ***Synthesis, Characterization and ac electrical conductivity of polyaniline***, 11th Asian conference on solid state ionics, Coimbatore, India (2008) 661

3. ***Synthesis, characterization and electrical conductivity of polyaniline/fly ash composites***, 11th Asian conference on solid state ionics, Coimbatore, India (2008) 621.
4. ***Synthesis, characterization and electrical conductivity of polyaniline***, 11th Asian conference on solid state ionics, Coimbatore, India (2008) 519.
5. ***Influence of reaction time on the morphologies of synthesized nanostructure Zinc oxide***, national conference on material science: trends & future, Vidyabarati Mahavidyalaya, Amravati (2010) 59.
6. ***Effect of temperature of polymerization on conductivity of polyaniline***, national conference on material science: trends & future, Vidyabarati Mahavidyalaya, Amravati (2010) 71.
7. ***Effect of surface activation on electrical conductivity of nanostructure zinc oxide thick film***, National conference on material science: trends & future, Vidyabarati Mahavidyalaya, Amravati (2010)101.
8. ***Variation of electrical conductivity of polyaniline with HCl as a dopant***, International conference on Advance materials and application, Kolhapur, India (2007) 212.
9. ***Variation of electrical conductivity of different polymers with temperature***, International conference on Advance materials and application, Kolhapur, India (2007) 319.
10. **Reduced Graphene Oxide- ZnO Composites based gas sensors: A Review, 2nd International Conference on Condensed Matter and Applied Physics (ICC2017), 2017**
11.

Personal Details:

- Date Of Birth : 4th May, 1981
- Sex : Male
- Nationality : Indian
- Mother Tongue : Marathi
- Languages Known : English, Hindi, Marathi & Telagu.

Signature

(Dr. V. S. Kalyamwar)