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Personal Details:-

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Member Of:-

College Committees	Other Committees
1. Earn and Learn Scheme	

Research Done:

<p>Ph.D Topic: Bifunctional Nanoparticles based on semiconductor quantum dots: Synthesis & Applications</p> <p>Synthesis, characterizations and applications of various nanomaterials such as Semiconductor quantum dots (CdTe, CdS and CdSe), magnetic nanoparticles (Fe_3O_4), binary and ternary metal oxides (ZnO, TiO_2, Zn_2SnO_4), graphitic carbon nitride ($g-C_3N_4$), metal nanoparticles (Au, Ag) as well nanocomposites based on these nanoparticles such as $Fe_3O_4/CdTe$, $CdTe/ZnS$, $CdTe-TiO_2$, $ZnO/CdTe$, ZnO/Au, $g-C_3N_4/CdSe$ etc. These nanocomposites are explored for biomedical applications such as bioimaging, bioseparation, protein detection, antibacterial, inhibition of bacterial biofilm formation and Energy applications such as photocatalytic hydrogen evolution by water splitting.</p>

Area of Interest in Research:

Nanocomposite materials based on Semiconductor nanostructures for Biomedical (Such as Bioimaging, Bioseparation, Protein detection, inhibition of bacterial biofilm formation) applications
Nanocomposite materials based on Semiconductor nanostructures for Energy related (Such as Photocatalytic Hydrogen Evolution by Water Splitting)

Research publications:

1. Quantum dots conjugated Zinc oxide nanosheets: An agent impeding microbial growth and biofilm, Rajendra Patil, Haribhau Gholap , Sambhaji Warule, Arun Banpurkar, Gauri Kulkarni and Wasudeo Gade, <i>Applied Surface Science</i> 326 (2015) 73–81
2. Fluorescent CdTe QDs Embedded Chitosan Nanoparticles : a stable, biocompatible preparation for bioimaging, Vandana Ghormade, Haribhau Gholap , Sonia Kale, Vaishnavi Kulkarni, Suresh Bhat, Kishore Paknikar, <i>J Biomater Sci Polym Ed.</i> 2015 Jan;26(1):42-56. (cited by: 1)
3. Synthesis and bio-film inhibition activity of Betulinan C and its analogs, Narayan Firke, Anil G. Markandeya, Rajendra Patil, Haribhau Gholap , Rajendra Konde Deshmukh, Shirish Pingale, <i>Research J. Pharm. and Tech.</i> 8(1): January 2015, page 54-58.
4. CdTe-TiO ₂ nanocomposite: An impeder of Bacterial Growth and Biofilm Haribhau Gholap , Rajendra Patil, Prasad Yadav, Arun Banpurkar, Satishchandra Ogale and Wasudeo Gade, <i>Nanotechnology</i> 24 (2013) 195101pp (cited by: 6)
5. Quantum dot bio-conjugate: as a western blot probe for highly sensitive detection of cellular proteins Sonia Kale, Anup Kale, Haribhau Gholap , Abhimanyu Rana, Rama Desai, Arun Banpurkar, Satishchandra Ogale, Padma Shastry <i>J Nanopart Res</i> (2012) 14:732.(cited by: 8)
6. Magnetite/CdTe magnetic–fluorescent composite nanosystem for magnetic separation and bio-imaging Anup Kale, Sonia Kale, Prasad Yadav, Haribhau Gholap , Renu Pasricha, J P Jog, Benoit Lefez, Béatrice Hannoyer, Padma Shastry and Satishchandra Ogale , <i>Nanotechnology</i> 22 (2011) 225101 (12pp) (cited by : 13)

Seminars and Workshops Attended:-

1. Innovation- 2015 Regional Conference for Pune University College Teachers, BCUD, Savitribai Phule Pune University at Fergusson College, Pune-4 on 17th & 18th June 2015 .
2. National Conference on “Ancient Science and Technology: Retrospection and Aspiration (ASTRA-2015) organized by Deccan Education Society, Pune on 10-11 Jan 2015 .
3. One day workshop on Restructuring T.Y.B.Sc. Physics Syllabus (Theory) organized by BCUD, Savitribai Phule Pune University, Pune and Department of Physics, Baburaoji Gholap College, Sangavi, Pune-27 on 28 Jan 2015 .
4. Quality Faculty Development Programme National Seminar on “ Integrating Physics and Chemistry for Rediscovering Biotechnology ” organized by BCUD, Savitribai Phule Pune University, Pune and IBB, Savitribai Phule Pune University, Pune on 25-27 Feb 2015 .

5. One day workshop on **“Driven Soft matter and Biological Systems”** 2015 at Department of Physics, Savitribai Phule Pune University, Pune-7 on **18th March 2015**.
6. 2nd International Symposium on Physics and Technology of Sensors (**ISPTS-2**) held at YASHDA, Pune on **March 8-10, 2015**.
7. International Conference on Recent Advances in Nanoscience and Nanotechnology (**ICRANN**)-2014 held at Jawaharlal Nehru University, New Delhi on December **15-16, 2014**.
8. **Innovation- 2014** Regional Conference for Pune University College Teachers, BCUD, University of Pune at H. V. Desai College, Pune during **April 26, 2014**.
9. National Conference on ‘Advances in Chemical Sciences with Special References to Molecular spectroscopy, Materials Science and Organic Electronics’ (**NCACS-2014**) sponsored by University Grant Commission (UGC), New Delhi at **Department of Chemistry, Fergusson College, Pune-4 on December 19-20, 2014**.
10. State level workshop on Entrepreneurship Developments Amongst in Youths in India sponsored by BCUD, Savitribai Phule Pune University of Pune and Skill Development Center, Savitribai Phule Pune University, Pune on **23 Dec 2014**.
11. International Conference of Materials for Advanced Technology (**ICMAT-2013**), held at Suntech, Singapore during **June 30-July 5, 2013**.
12. International Workshop on Nanotechnology and Advanced Functional Materials (**NTAFM-2013**), held at National Chemical Laboratory (NCL) Pune, India during **July 24-25, 2013**.
13. National Conference on Functional Nanomaterials: Synthesis, Characterization and Applications at Department of Physics, University of Pune on **31 Jan to 2 Feb 2013**.
14. Raman Memorial Conference (**RMC- 2013**) at Department of Physics, University of Pune in association with IPA, Pune Chapter during **Feb 22-23, 2013**.
15. One day Workshop on **“ Revision of M.Sc I Physics Syllabus (Credit System)** sponsored BOS of Physics and BCUD , University of Pune and Department of Physics, Fergusson College, Pune-4 on **5 March 2013**.
16. Two days workshop on **“Experimental Physics”** at IISER, Pune on **13-14 May 2015**.
17. Three days National Seminar on” Nanomaterials Avenue” sponsored by BCUD, University of Pune and K.T.H.M college, Nashik on **21-23 Oct 2013**.
18. Two days state level seminar on” Future Energy” sponsored by BCUD, University of Pune and Asian College of Science and Commerce, Narhe, Pune-41 on **27-28 Oct 2013**.
19. Indo-US workshop on “ Frontiers of Excellence in photovoltaic Science & Technologies (**IUSSTF**) at IIT Bombay, Mumbai on **15-17 Jan 2012**.
20. 1st International Symposium on physics and Technology of Sensors sponsored by MRSI India, DST, C-MET, Pune held at YASHADA, Pune on **8-10 March 2012**.
21. **Innovation- 2012** Regional Conference for Pune University College Teachers, BCUD, University of Pune at Bhartiya Jain Sanghtana College Wagholi, Pune during on **26-27 March, 2012**.
22. Raman Memorial Conference (RMC), **“RMC 2012”** Dept. of Physics, University of Pune, pune-411007 on **March 2-3, 2012**.
23. National Science day at National Chemical Laboratory (NCL), **Feb 27-28, 2012**.

24. Two Days National Workshop on “Recent Advances in Materials Engineering and Technologies (MET-2012)” at Sinhgad Institute of Technology and Science, Lonavala, Pune on 2-3 May 2012.
25. One Day Workshop on “Interaction of Physics Teacher with DST committee at Department of Physics, University of Pune, Pune-411007 on **15 Sept 2012**.
26. National Seminar on “Developments in thin film processing and characterization Technology” at Yashwantrao Mohite College, Pune on **8-9 October 2012**.
27. One day events ACS on Campus sponsored by ACS, USA and National Chemical Laboratory (NCL), Pune on **10 Oct 2012**.
28. Workshop on Entrepreneurship Cell at University of Pune, Pune-411007 on **27 Oct 2012**.
29. National Seminar on “Nanoscience and Technology: Frontiers in Science and Technology” Department of Chemistry and Physics, Baburaoji Gholap College, Sangvi, Pune-27 on **7-9 Feb 2011**.
30. National Seminar on Scanning Probe Microscopy at Department of Physics, University of Pune, Pune – 411007 on **11-12 March 2011**.
31. International Symposium on Materials Education (ISME 2011) sponsored by IISER, NCL, C-MET Pune at YASHADA, Pune on **26-28 March 2011**.
32. National Seminar on “**NANOSCIENCE**” sponsored by University Grant Commission (UGC) G.M.D and B.V Arts, Science and Commerce College, Sinner, Dist. Nashik **21-23 Jan 2010. (First Prize for presentation)**.
33. **Innovation- 2010** Regional Conference for Pune University College Teachers, BCUD, University of Pune at H.V Desai College Pune-2 during **22-23 November 2010**.
34. International Workshop and Symposium on the “Synthesis and Characterization of Glass/Glass Ceramics (**IWSSCGGC 2010**) at C-MET, Pune-8 on **7-10 July 2010**
35. National Seminar on Nanomaterials for Devices Characterization and applications at Department of Physics, University of Pune and Department of Applied Physics, Defence Institute of Advanced Technology Pune on **24-26 June 2010**.
36. Avishkar 2010 Zonal Level Research Project Competition at Fergusson College, Pune-4 on **6-7 Dec 2010**.

Seminars and Workshops Organized:-

Two days Science Academies’ Lecture Workshop on “**Nanotechnology: Energy & Health**” held at Fergusson College, Pune during October 10-11, 2014 for PG students and teachers of interdisciplinary subjects physics, chemistry, botany, biotechnology, microbiology .

Other Accomplishments:-

1. Course **Co-ordinator** for Department of Biotechnology (DBT), Science and Technology India **STAR College Scheme** programme on “**Introduction to Nanomaterials & Nanoscience**” held at Fergusson College, Pune during December 18-26, 2014.
2. **Co-ordinator** for Science Academies’ Lecture Workshop on “**Nanotechnology: Energy & Health**” held at Fergusson College, Pune during October 10-11, 2014.
3. Jawaharlal Nehru Center for Advanced Scientific Research (JNCASR), Bangalore

awarded **“Visiting Research Fellowship”** for three months under guidance of Dr.Ranjan Datta.

4. Indian Academy of Science, Bangalore **awarded research fellowship** for two months (May-June 2014) at International Center of Materials Science (ICMS), Jawaharlal Nehru Center for Advanced Scientific Research (JNCASR), Bangalore under guidance of Dr.Ranjan Datta.
5. University Grant Commission (UGC), New Delhi awarded **“Teacher Fellowship”**: 2011-2013.
6. Prof.P.S.Damble Prize for the **“Best Oral Presentation”** in Raman Memorial Conference (RMC) in 2012 at Department of Physics, University of Pune.
7. **“Best Poster Presentation”** award in National Level Seminar on Nanoscience at Sinnar, Nashik in 2010.
8. PG Teacher Recognition
9. M. Phil Guideship Recognition

Membership of Scientific Bodies:

1. **Life member: Indian Physics Association (Pune chapter)** (*Poo/LM/12710*)
2. **Life member: Indian Association of Physics Teachers** (*R.No. 6664*)
3. **Life member: Material Research Society of India (MRSI, India)** (*LMB1191*)
4. **Member of Materials Research Society, USA** for the Period: 2009-2010: (*Membership ID: 290582*)
5. **Member of Materials Research Society, Singapore** from June 2013: (*Membership ID: 2486*)
6. **Life member: Indian Biophysical Society** (*Membership ID: 880*)