

**Dr. Kailash B. Sapnar**

**A-23, UGC quarters, Fergusson College Campus, Pune-4**

**Personal Details:-**

<b>Name</b>	<b>SAPNAR</b>	<b>KAILASH</b>	<b>BALIRAM</b>
	<i>SURNAME</i>	<i>FIRST NAME</i>	<i>MIDDLE NAME</i>
<b>Department</b>	<b>PHYSICS</b>		
<b>Designation</b>	<b>Asst. Professor</b>		
<b>Qualification(s)</b>	<b>MSc., B.Ed., Ph.D.</b>		
<b>Certification(s)/Professional Courses/Exams</b>			
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**Member Of:-**

<b>College Committees</b>	<b>Other Committees</b>
<b>NAAC Committee</b>	<b>I/C Theory and Projects T. Y. B. Sc.</b>
	<b>Dead Stock committee</b>

**Research Done:**

<b>Material Science</b>
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**Area of Interest in Research:**

<b>Material science, Semiconductor devices,</b>
<b>Biomedical applications of Nanomaterials in different area</b>

**Books Published: Nil**

**Research publications:**

- [1] **K.B.Sapnar**. L.A. Ghule, S.V. Bhoraskar, K.M. Garadkar, S.D.Dhole and, V.N. Bhoraskar<sup>1\*</sup>  
Photocatalytic activity of 6.5 MeV electron irradiated ZnO-nanorods”  
Radiation Effects and Defects in Solids. 28-Nov-2010, GRAD-2010-0225.

- [2] **K.B.Sapnar**, L.A. Ghule, Veenu Sisodia, K.M. Garadkar, V.N. Bhoraskar and S.D. Dhole “Electron-irradiation induced changes in the phases and photocatalytic activity of TiO<sub>2</sub> nanoparticles”  
Nuclear Instruments and Methods in Physics Research B 276: 7-13 (2012)
- [3] **K.B.Sapnar**, L.A. Ghule, K.M. Garadkar, V.N Bhoraskar and S.D.Dhole, ‘Effects of 6 MeV electron irradiation on ZnO nanoparticles synthesized by microwave method’  
Proceeding of (2166 – 2168) PAC-2011.Newyork.USA
- [4] L. A. Ghule. **K. B. Sapnar**. S. D. Dhole. P. P. Hankare. K. M. Garadkar, ”Preparation of zinc oxide nanorods by microwave assisted technique using ethylene glycol as a stabilizing agent”  
J Mater Sci: Mater Electron DOI 10.1007/s10854-010-0270-0.
- [5] L. A. Ghule. **K. B. Sapnar**. S. D. Dhole. K. M. Garadkar. Photocatalytic degradation of methyl orange using ZnO nanorods.  
Toxicological & Environmental Chemistry, Vol. 93, No.4, April 2011, 623–634.
- [6] Veenu Sisodia, **K.B. Sapnar** and S.D. Dhole “ Ti silicite formation by interfacial mixing using swift heavy ion irradiation”  
Archives of Physics Research, Vol 2, No. 1, April 2011, 54-67.
- [7] **K.B.Sapnar**, Veenu Sisodia and S.D. Dhole, “Ti silicide formation by interfacial mixing using swift heavy ion irradiation”  
Archives of Physics Research,2 (1): 54-67 (2011)
- [8] **K.B.Sapnar**, V.N. Bhoraskar and S.D. Dhole “Antimicrobial activity of 6.5 MeV energy electron irradiated ZnO nanoparticles synthesized by microwave method”  
Journal of Colloid and Interface Science
- [9]**K.B.Sapnar**, K.M. Garadkar, S.D. Dhole and V.N. Bhoraskar “Antimicrobial Activity of 6.5 MeV electron- irradiated ZnO Nanoparticles synthesized by microwave-assisted method”  
International Journal of Green Nanotechnology, 4: 477-483 (2012)

### Seminars and Workshops Attended:-

Sr. No.	Name and Details of the Conference	Participation Details
1.	National Workshop on Recent Advances in Materials Engineering and Technologies (MET- 2012) during 2 <sup>nd</sup> -3 <sup>rd</sup> May 2012	Participated and Presented a Paper
2.	University Level Seminar on Applications of Nano- Technology organized by Department of Physics, Balasaheb Jadhav Arts, Commerce and Science College, Junnar, Pune-412411 on 16 <sup>th</sup> Feb, 2012	
3.	International Workshop on Nanotechnology and Advanced Functional Materials at National Chemical Laboratory, Pune(India) held from 9 <sup>th</sup> to 11 July 2009	Presented a Poster

4.	Indo – Russian Workshop on nanotechnology and Laser Induced Plasma -2009 (IRNANO-2009) held at University of Delhi, Delhi, India during November 24-26, 2009	Presented paper on” Effect of ---Microwave assisted method
5.	International Conference on Lasers and Advanced Materials (ICLAM-2010) held at Department of Physics, Abasaheb Garware College, Pune on March 6-8, 2010	
6.	Raman Memorial Conference 2010, held on 24 <sup>th</sup> -25 <sup>th</sup> Feb 2010 at Department of Physics, university of Pune, Pune-411007	
7.	International Workshop on Frontiers in Electronic Structure Calculations , Techniques and Applications held at Department of Physics, University of Pune, Pune -411007 on February 15 <sup>th</sup> to 17 <sup>th</sup> 2010	
8.	International Conference on Biology Beyond Borders(ICBBB) held at University of Pune during 4 <sup>th</sup> and 5 <sup>th</sup> March 2010	
9.	National Conference on Nanobiotechnology: Applications and Prospects held at Department of Microbiology, Abeda Inamdar senior College, on 8 <sup>th</sup> to 10 <sup>th</sup> Oct 2009	
10.	International Conference on Nanomaterials & Nanotechnology held at the University of Delhi, Delhi, India, during 18-21 December 2011	Attended and Delivered Talk
11.	National Seminar Frontiers in Physics- V held at Department of Physics, Fergusson College, Pune-411004 on 17 <sup>th</sup> -19 <sup>th</sup> Jan 2012	
12.	Raman Memorial Conference 2011, held on 25 <sup>th</sup> -26 <sup>th</sup> Feb 2011 at Department of Physics, University of Pune, Pune-411007	
13.	Nanomaterials for Devices: Characterization and Applications held at Department of Physics, University of Pune and Defence during June 24-26, 2010.	
14.	One Day Workshop to Frame the Syllabus of M.Sc. Physics under University of Pune held at Department of Physics, Fergusson College, Pune-411004 on 16 <sup>th</sup> January 1999	
15.	National Level Seminar of National Children Science Congress - 2001, Department of Science and Technology , Govt. of India, Awarded to acknowledge as his contribution to NCSC as Judge , NCSC 2001 held at MIT Engineering College, Pune during 27 <sup>th</sup> - 31 December 2001.	
16.	One Day Workshop on Revised Syllabus of B.Sc. Physics of University of Pune , Pune conducted at Abasaheb Garware College, Pune on 9 <sup>th</sup> March 2003	
17.	Two day’s State Level Seminar on “ Impact of Liberalization on Commerce Education” held at Shiv Chatrapati Arts & Commerce College, Pune- 411041 on 15 <sup>th</sup> and 16 <sup>th</sup> Feb 2008	
18.	One Day University Level Workshop on Syllabus Revision of M.Sc. (Physics) course of University of Pune, Pune held on 10 <sup>th</sup> dec 2007 at the Department of Physics, Fergusson college, Pune.	

19.	One Day National Seminar on Applications of Particle Accelerators held at the Department of Physics, University of Pune , Pune on 11 <sup>th</sup> May 2007	
20.	One Day University Level Workshop on Syllabus Revision of B.Sc. (Physics) course of University of Pune, Pune held on 20 <sup>th</sup> Jan 2007 at the Department of Physics , Karmaveer Ramraoji Aher Arts , Science and Commerce College, Nashik, Maharashtra, India	
21.	One Day National Seminar on Biophysics held at Department of Biotechnology, Fergusson College, Pune-411004 on 31 <sup>st</sup> Oct 2006	
22.	One Day National Workshop on Nanoscience of DST Unit on Nanoscience , CAS , Materials Research Society of India held at Department of Physics , University of Pune , Pune -411004 on 4 <sup>th</sup> Feb 2006	
23.	One Day State Level Seminar on “ Remembering Einstein” held at Department of Physics, Baburaoji Gholap College, Sangavi, Pune on 21 <sup>st</sup> January 2006	
24.	One Day University Level Workshop on Syllabus Revision of B.Sc. (Physics) course of University of Pune, Pune held on 17 <sup>th</sup> Jan 2004 at the Department of Physics, Fergusson College, Pune - 411004.	
25.	One Day University Level Workshop on Syllabus Revision of B.Sc. (Physics) course of University of Pune, Pune held on 10 <sup>th</sup> Oct 2003 at the Department of Physics ,B.J.A.C.S. College, Ale & Sponsored by University of Pune, Pune-411004	
26.	National Level Workshop on “ Nanoworld 2008” held at Ror\tory Club of Pune singhad Road, Pune on 22 <sup>nd</sup> March 2008	
27.	National Conference on “Renewable Energy For Youth Empowerment In Rural Area”(NCORE-2008) held at Department of Physics , S.N. Arts , D.J. Malpani Commerce & B.N. Sarda Science College, Sangamner, Ahmadnager, Maharashtra on 23 <sup>rd</sup> to 25 <sup>th</sup> March 2008	
28.	Refresher Course in Physics conducted at Department of Physics, University of Pune , Pune from 26/03/2004 to 15/04/2004 under the UGC – Academic Staff College, Scheme, University of Pune, Pune -411007	
29.	Refresher Course in Physics conducted at Department of Physics, University of Pune , Pune from 28/11/2003 to 25/12/2003 under the UGC – Academic Staff College, Scheme, University of Pune, Pune -411007	
32	Refresher Course in Physics conducted at Department of Physics, University of Pune , Pune from 26/03/2004 to 15/04/2004 under the UGC – Academic Staff College, Scheme, University of Pune, Pune -411007	

33	Refresher Course in Physics conducted at Department of Physics, University of Pune , Pune from 07/09/2009 to 27/09/2009 under the UGC – Academic Staff College, Scheme, University of Pune, Pune -411007	
34	Refresher Course in Physics conducted at Department of Physics, University of Pune , Pune from 03/03/2009 to 03/03/2009 under the UGC – Academic Staff College, Scheme, University of Pune, Pune -411007	

### **Seminars and Workshops Organized:-**

One day workshop organized for “Revision and Restructuring of M.Sc. Physics Part- I Choice Based Credit System Syllabus on Mar.05, 2013.

Member of organizing committee of National conference at Fergusson college Pune on 19-20 Dec 2014

### **Other Accomplishments:-**

BIONANO FRONTIER Journal of Science and Technology, (ISSN 0974-0678) Awarded Dr. K. B. Sapnar as Senior Scientist for his contribution in the field of Material Science dated 08/03/2010

Indo – Russian Workshop on nanotechnology and Laser Induced Plasma -2009 (IRNANO-2009) held at University of Delhi, Delhi, India during November 24-26, 2009, awarded the best paper presentation award.