

## Teacher Profile



### 1. Personal Details:

Name : Dr. S. R. Patil  
Designation : Professor,  
Department of Chemistry  
Shivaji University, Kolhapur-  
416004  
Date of Birth : 12-10-1955  
E-mail Address : [srp\\_fsl@rediffmail.com](mailto:srp_fsl@rediffmail.com)  
[srp\\_chem@unishivaji.ac.in](mailto:srp_chem@unishivaji.ac.in)  
(M) 09850092720  
(O) 0231-2609164  
Permanent Address : Swapnapurti, Vidyanagar, Survey no.12,  
Plot No.4, Morewadi, Kolhapur-416013.

### 2. Academic Details:

Qualification : M.Sc.; M.Phil.; Ph.D.  
Specialization : Physical Chemistry  
Position : Professor of Physical Chemistry  
Department of Chemistry,  
Shivaji University

### 3. Research Specialization :

Fluorescent Probe for analytical applications,  
Materials Chemistry,  
X-ray Crystallography and Optoelectronic  
Properties of doped organic  
luminophors,

4. Teaching Experience : Total 34 years  
 U.G. : 15 years  
 From 17 July 1979 to 2<sup>nd</sup> May 1994  
 At  
 KrishnaMahavidya  
 laya, Rethare, BK.  
 Tk. Karad  
 P.G. : 19 years  
 From 3<sup>rd</sup> May 1994 to date  
 in Shivaji University, Kolhapur

5. Research Guidance :  
 M.Sc. Projects : 60 students  
 M.Phil. : 04 students  
 Ph.D. : 07 students

6. Research Publications :  
 National & Regional : 14  
 International ; 46  
**Total 60**

**Google Scholar**

| <u>Citation Indices</u> | <u>All</u> | <u>Since 2009</u> |
|-------------------------|------------|-------------------|
| Citations               | 316        | 298               |
| h-index                 | 10         | 9                 |
| i10-index               | 11         | 8                 |

**Scopus Papers : 49**

**Scopus Citations : Period : 2009-2014**

| <b>Year</b>  | <b>Citations</b> |
|--------------|------------------|
| 2009         | 07               |
| 2010         | 14               |
| 2011         | 39               |
| 2012         | 48               |
| 2013         | 65               |
| 2014         | 64               |
| <b>Total</b> | <b>237</b>       |

**Research Gate Score : 26.15**

**Most Cited Research Paper : Citation: 43 times**

- ❖ Bhattar S. L., Kolekar, G. B and S. R. Patil  
 Fluorescence resonance energy transfer between perylene and riboflavin in micellar solution and analytical applications on determination of vitamin B2  
 J.Lumin. 128(3) (2008)306-310

7. Conferences Attended :

|               |   |    |
|---------------|---|----|
| National      | : | 16 |
| International | ; | 09 |
| Invited Talk  | : | 14 |

8. Research Project :

| Sr. No. | Title of the project  | Funding Agency                                   | Period       | Grant sanctioned/<br>Amount mobilize | Status    |
|---------|---|--|--------------|--------------------------------------|-----------|
| 1       | Major Research Project Synthesis and characteriation of organoluminophos for Light Emitting Devices                                       | Department of Atomic Energy, Government of India | 1999 To 2003 | 10,27,000=00                         | Completed |
| 2       | Preparation and characterization of organic nanoparticles for fluorescence resonance energy transfer studies and analytical applications. | University Grants Commission, New Delhi          | 2012 To 2015 | 10,45,000=00                         | Ongoing   |
| 3       | Nano materials as analytical probes for sensing applications (Co-investigator)  | University Grants Commission, New Delhi          | 2013-2016    | 10,88,800=00                         | Ongoing   |

9. Membership/Other Charges:

- A) Head, Department of Chemistry : 2009 to 2012
- B) Co-ordinator, : 2007 to 2010  
Industrial Chemistry Course

- C) Member, : 2009-2012  
SENATE,  
Shivaji University, Kolhapur
- D) Member, : 1989-91 & 1991-94.  
Board of Studies in Chemistry and  
Biochemistry,  
Shivaji University, Kolhapur
- E) Member, : 1991-94.  
Faculty of Science,  
Shivaji University, Kolhapur
- F) Member, : 2008-10  
Board of Studies in Chemistry,  
Solapur University, Solapur.
- G) Life Member, : 2006  
Indian Society for Radiation and  
Photochemistry.
- H) Life Member, 2006  
Luminescence Society of India  
.
- I) Solapur  
University Teacher  
Selection Committee,
- J) Member, : 2004 to date.  
Technical Committee,  
Shivaji University, Kolhapur
- K) Member, : 2007 to date  
Academic Committee,  
Shivaji University, Kolhapur
- L) Member, : 2011-13  
Board of Studies in Chemistry,  
Maharashtra State Secondary and  
Higher Secondary Education, Pune
- M) Managing Editor : 2014 to date  
Journal of Shivaji University  
(Science & Technology)

10. Honors /Rewards :

a) Visiting Professor : Department of Chemistry,  
Hanyang University,  
Seoul, South Korea.  
Tenure: March, 2010 to June, 2010.  
Under MoU of University.

b) Reviewer  
For International Research Journals

: Journal of  
Luminescence Journal  
of Fluorescence  
Luminescence  
Spectrochemica Acta  
Journal of Physical Chemistry (A)  
Journal of Chemical & Engg. Data  
Journal of Photochem.  
Photobio. Talanta

c) Reviewer for international journals and currently Member of the Editorial Board of “Journal of Luminescence and Applications” an international Journal of Columbia International Publishing USA

### **List of Publications:**

1. Polyvinyl pyrrolidone capped fluorescent anthracene nanoparticles for sensing of fluorescein sodium in aqueous solution and analytical application for ophthalmic sample.  
Accepted Manuscript: Dec-2014  
Luminescence: The Journal of Biological and Chemical Luminescence
2. Turn-on fluorescence probe for selective and sensitive detection of D-penicillamine by CdS quantum dots in aqueous media: Application to pharmaceutical formulation.  
Sensors and Actuators B (<http://dx.doi.org/doi:10.1016/j.snb.2014.12.064>)  
Samadhan P. Pawar Anil H. Gore Laxman S. Walekar Prashant V. Anbhule Shivajirao R. Patil Govind B. Kolekar.

3. Pyrene nanoparticles as a novel FRET probe for detection of rhodamine 6G: spectroscopic ruler for textile effluent.

Dhanaji P. Bhopate, Prasad G. Mahajan, Kalyanrao M. Garadkar, Govind B. Kolekar  
RSC Adv., 2014, 4, 63866d Shivajirao R. Patil.

4. Microwave-assisted rapid synthesis of highly porous TiO<sub>2</sub> thin films with nanocrystalline framework for efficient photoelectrochemical conversion.

V.V. Kondalkar, S.S. Mali, N.B. Pawar, R.M. Mane, S. Choudhury, C.K. Hong, P.S. Patil, S.R. Patil, P.N. Bhosale, J.H. Kim.  
Electrochimica Acta 143 (2014) 89–97.

5. Photoelectrocatalysis of Cefotaxime Using Nanostructured TiO<sub>2</sub> Photoanode:

Identification of the Degradation Products and Determination of the Toxicity Level

Vijay V. Kondalkar, Sawanta S. Mali, Rahul M. Mane, P. B. Dandge, Sipra Choudhury,  
Chang K. Hong, Pramod S. Patil, Shivajirao R. Patil, Jin H. Kim, and Popatrao N.  
Bhosale .

Ind. Eng. Chem. Res. 2014, 53, 18152 –18162.

6. Study of energy transfer between riboflavin (vitamin B<sub>2</sub>) and AgNPs Vidya V. Mokashi •

Vidya V. Mokashi, Laxman S. Walekar, Prashant V. Anbhule, Sang Hak Lee, Shivajirao  
R. Patil, Govind B. Kolekar.

J Nanopart Res (2014) 16:2291 DOI 10.1007/s11051-014-2291-8.

7. Cetyltrimethylammonium bromide capped 9-anthraldehyde nanoparticles for selective recognition of PO<sub>4</sub><sup>3-</sup> ion in aqueous solution based on fluorescence quenching and application to analysis of chloroquine

Mahajan P. G., Desai N. K., Dalavi D. K., Bhopate D. P., Kolekar G. B., Patil S. R.

J Fluoresc. DOI 10.1007/s10895-014-1451-7.

8. Fluorescence quenching studies of CTAB stabilized perylene nanoparticles for the

determination of Cr(VI) from environmental samples : Spectroscopic approach

Dalavi D. K., Bhopate D. P., Bagwan A. S., Gore A. H., Desai. N. K., Kambale A. A., Mahajan. P. G., Patil. S. R.

Analytical Methods, 6 (2014) 6948-6955.

9. A novel FRET probe for selective and sensitive determination of Vitamin B12 by functionalized CdS QDs in aqueous media : Application to pharmaceutical and biological analysis

Gore A.H., Kale M. B., Anbhule P. V., Patil S. R., Kolekar G. B

RSC Advances, 4 (2014) 683-692.

10. Study of energy transfer between riboflavin (vitamin B12) and AgNPs

Mokashi V. V., Walekar L. S., Anbhule P. V., Lee S. H., Patil S. R., Kolekar G. B.

Journal of Nnanoparticle Research 16 (2014)

11. Off-On fluorescent polyanthracene for recognition of ferric and fluoride ions in aqueous acidic media: Application to pharmaceutical and environmental analysis.

Netaji K. Desai, Govind B. Kolekar and Shivajirao R. Patil

New J. Chem., RSC Adv., 4 (2014) 683

12. Cetyltrimethylammonium bromide stabilized perylene nanoparticles for fluorimetric estimation of bicarbonate ( $\text{HCO}_3^-$ ) anion: spectroscopic approach.

Dhanaji P. Bhopate, Govind B. Kolekar, Kalyanrao M. Garadkar and Shivajirao R. Patil

Anal.methods ,5 (2013)5324.

13. A novel colorimetric probe for highly selective recognition of  $\text{Hg}_2^+$  ions in aqueous media based on inducing the aggregation of CPB-capped AgNPs: accelerating direct detection for environmental analysis.

Laxman S. Walekar, Anil H. Gore, Prashant V. Anbhule, V. Sudarsan, Shivajirao R. Patil, Govind B. Kolekar.

Analytical Methods DOI: 10.1039/c3ay40827b

14. Fluorescence enhancement effect in pyrene and perylene doped nanoporous polystyrene films: Mechanistic and morphology.

N. K. Desai, M. K. Gupta, G. B. Kolekar, and S. R. Patil.

Phys. Status Solidi A, 1–7 (2013)/ DOI 10.1002/pssa.201329163

15. A novel pyrimidine derivative as a fluorescent chemosensor for highly selective detection of Aluminum (III) in aqueous media.

Vishwas D. Suryawanshi, Anil H. Gore, Pravin R. Dongare, Prashant V. Anbhule, Shivajirao R. Patil, Govind B. Kolekar.

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 114 (2013) pp 681–686.

16. Solvatochromic fluorescence behavior of 2-amino-6-hydroxy-4-(3, 4-dimethoxyphenyl)- pyrimidine-5-carbonitrile: A sensitive fluorescent probe for detection of pH and water composition in binary aqueous solutions.

Vishwas D. Suryawanshi, Anil H. Gore, Laxman S. Walekar, Prashant V. Anbhule, Shivajirao R. Patil, Govind B. Kolekar.

Journal of Molecular Liquids 184 (2013) pp 4–9.

17. Direct detection of sulfide ions [S<sup>2-</sup>] in aqueous media based on fluorescence quenching of functionalized CdS QDs at trace levels: Analytical applications to environmental analysis

Gore, A. H., Vatre, S.B., Anbhule, P.V., Han, S.-H., Patil, S.R., Kolekar, and G.B.

Analyst 138 (5), pp. 1329-1333, 2013.



18. A spectral deciphering the perturbation of model transporter protein (HSA) by antibacterial pyrimidine derivative: Pharmacokinetic and biophysical insights Suryawanshi, V.D., Anbhule, P.V., Gore, A.H., Patil, S.R., Kolekar, G.B.  
Journal of Photochemistry and Photobiology B: Biology 118, pp. 1-8, 2013.
19. Highly selective and sensitive recognition of cobalt (II) ions directly in aqueous solution using carboxyl-functionalized CdS quantum dots as a naked eye colorimetric probe: Applications to environmental analysis  
Gore, A.H., Gunjal, D.B., Kokate, M.R., Sudarsan, V., Anbhule, P.V., Patil, S.R., Kolekar, G.B.  
ACS Applied Materials and Interfaces 4 (10) , pp. 5217-5226, 2012.
20. Micellar-mediated binding interaction between proflavine hemisulfate and salicylic acid: Spectroscopic insights and its analytical application  
Patil, D.T., Mokashi, V.V., Kolekar, G.B., Patil, S.R.,  
Luminescence, 2012.
21. Preparation and characterization of anthracene doped p-terphenyl polycrystalline powders for scintillation application  
N. K. Desai, G. B. Kolekar and S. R. Patil  
International Journal of Luminescence and its applications Volume 2(I), 09/08/2012,  
ISSN 2277 – 6362
22. Evaluation of interparticle interaction between colloidal Ag nanoparticles coated with trisodium citrate and safranin by using FRET: Spectroscopic and mechanistic approach  
Vidya V. Mokashi, Anil H. Gore, V. Sudarsan , Madhab C. Rath, Sung H. Han, Shivajirao R. Patil, Govind B. Kolekar\*  
Journal of Photochemistry and Photobiology B: Biology 113 (2012) 63–69

- 23.** Spectroscopic Investigation on the Interaction of Pyrimidine Derivative, 2-Amino-6-hydroxy-4-(3,4-dimethoxyphenyl)-pyrimidine-5-carbonitrile with Human Serum Albumin: Mechanistic and Conformational Study  
Vishwas D. Suryawanshi, Prashant V. Anbhule, Anil H. Gore, Shivajirao R. Patil, and Govind B. Kolekar\*  
I & EC Research 51 (2012) 95-102
- 24.** Gore. A. H., Mote U. S., Tele S. S., Anabhule P. V., Chandra Rath M., Patil S. R., Kolekar G. B.  
A novel method for ranitidine hydrochloride determination in aqueous solution based on fluorescence quenching of functionalized CdS QDs through photo induced charge transfer process : spectroscopic approach  
Analyst 136 (2011) 2606-2612.
- 25.** Tele S. S., Gadkari T. V., Patil S. R., Kolekar G. B.  
Validated stability indicating LC method for carprofen : Characterization of degradation products by MS.  
Journal of Chromatographic Science, 49 (2011) 434-438.
- 26.** M. S. Khot, N. K. Desai, G. B. Kolekar and S. R. Patil  
Fluorescence enhancement effect for the determination of adenosine 5'-monophosphate with 9-anthracene carboxylic acid-cetyl trimethyl ammonium bromide  
Journal of Fluorescence 21 (2011) 1997
- 27.** Vishalkumar R. More, Prashant V. Anbhule, Sang H. Lee, Shivajirao R. Patil and Govind B. Kolekar  
Fluorimetric study on the interaction between norfloxacin and proflavine hemisulphate.  
Journal of Fluorescence 21 (2011) 1789-1796.
- 28.** U.S. Mote, S.R. Patil, S.H. Bhosale, S.H. Han, G.B. Kolekar

Fluorescence resonance energy transfer from tryptophan to folic acid in micellar media and deionised water

Journal of Photochemistry and Photobiology B: Biology 103 (2011) 16–21

**29.** D. T. Patil, S. L. Bhattar, G. B. Kolekar and S. R. Patil

Spectrofluorimetric Studies on Interaction between Quinine sulphate and Riboflavin

Journal of Solution Chemistry 40 (2011) 211

**30.** S. L. Bhattar, G. B. Kolekar and S. R. Patil

Fluorescence Resonance Energy Transfer between Anthracene and Proflavine Hemisulphate in micellar solution and Analytical application on determination of Proflavine Hemisulphate

Journal of Dispersion science and Technology 32 (2011) 23-27.

**31.** M. S. Khot, S. L. Bhattar, G. B. Kolekar and S. R. Patil

Spectrofluorimetric Determination of 5-Fluorouracil by Fluorescence Quenching of 9-Anthracenecarboxylic Acid

Spectrochimica Acta Part A 77 (2010) 82–86.

**32.** S. L. Bhattar, G. B. Kolekar and S. R. Patil

The fluorescence resonance energy transfer from Proflavin hemisulphate to rose Bengal in aqueous Micellar solution

Indian J. of Chemistry A (Vol. 49A, July 2010, pp. 896-900)

**33.** U. S. Mote, S. L. Bhattar, S. R. Patil and G. B. Kolekar

Interaction between felodipine and bovin serum albumin: fluorescence quenching study

Luminescence: Biological and Chemical Luminescence 25(2010)1-8

**34.** Shailaja R. Patil, Umesh S.Mote, Shivajirao R. Patil, Sang-Hak Lee and

Govind B. Kolekar

Fluorimetric study of the interaction between ATP and ciprofloxacin  $Y^{3+}$  complex and its application. Journal of Rare Earths 28 (2010) 329.

- 35.** Umesh S. Mote, Shivajirao R. Patil, Govind B. Kolekar  
Fluorescence spectroscopic studies on interaction between carprofen and triton X-100 micelle  
Journal of Molecular Liquids 157 (2010)102-104
- 36.** Bhattar S L., Kolekar, G. B and S. R. Patil  
Spectroscopic studies on the Molecular Interaction between Salicylic Acid and Riboflavin (B<sub>2</sub>) in micellar solution,  
Journal of Luminescence 130 (2010) 355-359.
- 37.** U. S. Mote, Sung-Hwan Han, S. R. Patil and G.B. Kolekar  
Effect of temperature and pH on interaction between bovine serum albumin and cetylpyridinium bromide: fluorescence spectroscopic approach  
Journal of Luminescence 130 (2010) 2059-2064.
- 38.** V. R. More, U. S. Mote, S. R. Patil, and G. B. Kolekar  
Fluorescence quenching studies on the interaction between Riboflavin and Norfloxacin and Analytical application on determination of vitamin B<sub>2</sub>  
Journal of Solution Chemistry 39(2010) 97
- 39.** Lad S. N., Mote U. S., Bhattar S. L., Anbhule P. V., Patil S. R., Kolekar G. B.  
Synthesis and photophysical studies on 5-ethoxycarbonyl-4-cinnamyl-6-methyl-3, 4-dihydropyrimidine-2(1H)-one in various solvents  
Bulletin of Chemical Society of Ethiopia (2009) 23 (2) 1-8
- 40.** U. S. Mote, S. L. Bhattar, S. R. Patil and G. B. Kolekar  
Interaction of fluorescein with felodipine: Spectrofluorometric and thermodynamic study  
Journal of Solution Chemistry 38(2009) 619–6281.
- 41.** Shailaja R. Patil, Umesh S. Mote. Shivajirao R. Patil and Govind B Kolekar  
Determination of Heparin Using Norfloxacin-cerium complex as a Fluorescence Probe by Spectrofluorimetry

- Bull. Korean Chem. Soc. 30 (2009) 12.
42. M. N. Gharge, S. L. Bhattar, G. B. Kolekar and S. R. Patil  
Effect of polar dopants on structure of crystalline anthracene powders  
Indian journal of Chemistry. 48A (2009) 1383-1387
43. Spectroscopic Studies on the Interaction Between Norfloxacin And P-Amino Benzoic Acid: Analytical Application on Determination of Norfloxacin  
Spectrochimica Acta Part A 74 (2009) 771.
44. Bhattar S. L., Kolekar, G. B and S. R. Patil  
Fluorescence resonance energy transfer between perylene and riboflavin in micellar solution and analytical applications on determination of vitamin B<sub>2</sub>  
J.Lumin. 128(3) (2008)306-310
45. Gharage. M. N., Bhattar. S. L., Kolekar. G. B., and Patil S. R  
Structural and Physical aspects of Perylene doped Anthracene crystalline powders prepared by Microwave Heating  
Indian Journal of Chemistry, 47(A) (2008) 1642-1648
46. Patil M. P., Bhattar S. L., Patil S. R.  
Fluorescence studies of salicylic acid in solution and polymeric film  
Asian Journal of Chemistry, 20 (2008) 3961-3966
47. S.R. Pujari, P.N. Bhosale, P.M.R. Rao & S.R. Patil  
Photophysical Studies of N-Phenylanthranilic Acid in polymer films  
Indian J. Chem. Tech., 10,251(2003)
48. S.R. Pujai, P.N. Bhosale, P.M.R. Rao & S.R. Patil  
Microwave assisted synthesis and characteization of organo-luminophors for light emitting devices .  
Indian Association of Nuclear Chemists & allied Scientists(INSCA),  
Vol- II,No.1,70(2003)

- 49.** S.R. Pujari, P.N. Bhosale, P.M.R. Rao & S.R. Patil  
Structural and Optical studies of perylene doped polymer thin films  
Indian journal of chemical technology, 10 (2003) 251-256
- 50.** S.R. Pujari, P.N. Bhosale, P.M.R. Rao & S.R. Patil  
Sensitized monomer fluorescence and Excitation energy transfer in perylene doped phenanthrene in crystalline and in polymer matrix  
Materials Research Bulletin USA, 37, 439 (2002).
- 51.** S.R. Pujari, M.D. Kambale, P.N. Bhosale, P.M.R. Rao & S.R. Patil  
Optical properties of pyrene doped polymer thin films  
Materials Research Bulletin USA, 37, 1641 (2002)
- 52.** Patwari S. B., Baseer M. A., Vartale S. P., Patil S. R.  
X-Ray diffraction study of organic mixed crystals  
Asian Journal of chemistry 14 (2002) 57-61
- 53.** S.R. Pujari, S.A. Jadhav, P.N. Bhosale, P.M.R. Rao & S.R. Patil  
Fluorescence Studies of Biphenyl doped by Pyrene and Perylene  
Indian J Pure & Appl Phys, 40, 115 (2002).
- 54.** S.A.Jadhav, S.R.Pujari & S.R.Patil,  
Tuning of Exciplex emission of pyrene and perylene in fluorene Matrix.  
Indian J. Chem., 40A, 933(2001)
- 55.** S. A. Jadhav, S. R. Pujari & S. R. Patil  
Photophysics of exciplex emission of crystalline biphenyl doped by Pyrene  
Indian J. Pure & Appl. Phys., 38, 43, (2000)
- 56.** S.A.Jadhav & S. R. Patil,  
Sensitization of Fluorescence of crystalline fluorine by anthracene  
Materials Chem. & Phys., 60,204 (1999)
- 57.** S.B.Patwari & S.R.Patil,

Red Shift in fluorescence of naphthalene doped by anthracene and perylene. J.

Luminescence, 82,115(1999)

58. S. R. Patil

Some new aspects of luminescence in perylene doped pyrene.

Indian J. Chem., 34A, 102(1995)

59. S.B.Patwari & S. R. Patil

Quenching of excimer fluorescence of crystalline pyrene by doped anthracene.

Indian J. Chem., 36A, 792(1997).

60. S. R. Patil & V.S.Kulkarni

Luminescence Studies of pyrene doped anthracene powder.

Indian J. Pure & Appl. Phys., 32, 69,691(1994).

**Details on the participation in the Conferences/Symposia/workshops:**

| Sr. No. | Title of the Paper   | Title of Conferences   | Whether National / state/regional |
|---------|--|--|-----------------------------------|
| 1       | Characterization of fluorescent pyrene nanoparticles prepared by reprecipitation method  | National Conference on Frontiers in Physical, Chemical and Biological Sciences, organized by Department of Chemistry, University of Pune, Pune during 4-6, October 2013  | National                          |
| 2       | Study of interaction between quinine sulphate and riboflavin in aqueous micellar solution and analytical application on determination of riboflavin. | 3 <sup>rd</sup> International Conference and Exhibition on Analytical and Bioanalytical Techniques organized by OMICS Publishing Group(USA) at International Convention Centre, Hyderabad during 22-24, November 2012. | International                     |
| 3       | A novel Fluorimetric method for determination of ATP by perylene nano particles as a probe   | 2 <sup>nd</sup> International Conference on Emerging Trends in Chemical Sciences (ETCS-2012 held during 2-2, November 2012 in the Solapur University, Solapur  | International                     |

|    |  |   |               |
|----|--|---|---------------|
| 4  | Preparation and characterization of anthracene doped p-terphenyl polycrystalline powders for scintillation application | 4 <sup>th</sup> International conference on Luminescence and its applications(ICLA-2012) organized by Indian Institute of Technology, Hyderabad during 7-10, February 2012.   | International |
| 5  | Studies on molecular interactions between drug and biomolecules using Fluorescence Resonance Energy Transfer           | 3 rd Asian Pacific symposium on Radiation Chemistry and Trombay Symposium on Radiation and Photochemistry (APSRC-TSRP-2010) held at Treasure Island Resorts, Lonavala, India during 14-17 <sup>th</sup> September 2010 organized by Radiation and Photochemistry Division BARC,Mumbai | International |
| 6  | Participated in “Discussion meeting on Chemical Reaction in Unusual Media”   | National Chemical Laboratory Pune on 8-9 <sup>th</sup> October 2009   | State Level   |
| 7  | Attended International Symposium on Drug Discovery and Process Research, (DDPR-2003)                                   | Department of Chemistry, Shivaji University Kolhapur during 23-25 <sup>th</sup> , January 2003  | International |
| 8  | Participated in “ An International Conference Fluorescence in Biology -2009  | Organized by Tata Institute of Fundamental Research, Mumbai, during 16-19 <sup>th</sup> , March 2009  | International |
| 9  | Participated in workshop on 2 <sup>nd</sup> annual Global forum on Innovation Creativity and Intellectual Property     | Organized by US Chamber of Commerce , The US-India Business Council and The Confederation of Indian industries during 26 – 27 <sup>th</sup> February 2008 , held at Hyat Hotel, Mumbai  | International |
| 10 | Attended and participated in International symposium on Materials Chemistry ISMC-2006                                  | Bhabha Atomic Research Centre, Mumbai, 4-8 <sup>th</sup> December 2006.   | International |
| 11 | Participated and   | Trombay Symposium on  | National      |



|    |  |   |          |
|----|--|---|----------|
|    | Presented paper on "photoinduced proton transfer studies of Salicylic acid doped in Polymer Film"  | Radiation and Photochemistry (TSRP-2006) held at BARC, Mumbai during 5-9 <sup>th</sup> , January 2006   |          |
| 12 | Participated in the workshop on Organometallic Chemistry   | Organized by Chemistry group Bhabha Atomic Research Centre, Mumbai, during 18-20 <sup>th</sup> April 2005   | National |
| 13 | Participated and Presented paper on "Sensitization of Fluorene fluorescence by doped anthracene" in the Thirty Fifth Annual Convention of Chemists | Organized by Indian Chemical Society, at department of chemistry, Karnataka University, Dharwad during 4-7 <sup>th</sup> November 1998  | National |
| 14 | Presented paper entitled "sensitization of fluorine of pyrene by doped anthracene"   | 7 <sup>th</sup> National convention/conferences of electrochemists (NCE-) organized by Department of Physics, Shivaji University, Kolhapur and Society of Advancement of Electrochemical Sciences and Technology, Karaikud during 18-20 <sup>th</sup> November 1996 | National |
| 15 | Photophysics of exciplex in doped organic semiconducting crystalline powders   | National Symposium on Solid State Chemistry and Advanced Materials, organized by Department of Chemistry, University of Gorakhpur, Gorakhpur during 21-23 <sup>rd</sup> December, 1996  | National |
| 16 | Participation in the discussion on Research in Photoinduced Phenomenon and Application   | IFCPAR- Pune University Workshop on Radiation and Photochemistry organized by Pune University during 18-20 <sup>th</sup> January 2000   | National |
| 17 | Preparation and Optical studies of perylene doped polymer  | DAE-BRNS Workshop on thin film multilayers, organized at BARC, Mumbai during 6-8 octomber 1999  | National |
| 18 | Presented paper entitled "Photophysical Studies of N-Phenylanthranilic Acid in Polymer Films"  | National Symposium on Radiation and Photochemistry held at Roorkee University, Roorkee during 21-23 <sup>rd</sup> Feb. 2001.  | National |
| 19 | Presented paper  | National Seminar on Current   | National |

|    |   |  |               |
|----|---|--|---------------|
|    | entitled "Microwave assisted preparation and luminescence studies of organo-luminophors   | trends in Phosphor Technology for Lamp Industries and Radiation National measurements organized by Luminescence Society of India at Dhanaji nana Mahavidyalaya, Faizpur of North Maharashtra University, Jalgaon during 20-21 <sup>st</sup> September 2001 |               |
| 20 | Participation in Organization in Science Exhibition on the National Science Day-2003  | Arranged at Department of Chemistry, Shivaji University Kolhapur during 24-28 <sup>th</sup> February 2003  | Regional      |
| 21 | Participated in One Day Workshop on Parent Awareness  | Workshop organized on 13 December 2002 University-Industry Interaction Cell of Shivaji University and Sponsored by Patent Facilitating Centre Technology Information, Forecasting and Assessment Council, Department of Science and Technology, New Delhi  | Regional      |
| 22 | Presented on contributed paper entitled "Electron Transfer Singlet Quenching and Exciplex in the photoreaction of chloroanthracene with N,N-Dimetyl aniline in different solvents." | International Conference on Luminescence & its Applications, Sponsored by Luminescence Society of India, held at B. A. R. C., Mumbai, February, 9-12, 2004.  | International |
| 23 | Attended seminar on recent advances in Chemistry  | Department of Chemistry, Shivaji University, Kolhapur during 28-30 November, 1988.   | Regional      |
| 24 | Participated and Presented paper (49)   | 75 <sup>th</sup> Session of knknknf Science Congress Association held at University of Pune, Pune during 7-12  | National      |

|    |                                       |  |          |
|----|---------------------------------------|--|----------|
|    |                                       | January 1988   |          |
| 25 | Participated and Presented paper (40) | Tenth Annual Conference of the Indian Council of Chemists, held at Goa University Goaduring 28-30October 1991. | National |

### Details of Invited Talks, Sessions Chaired, Expert Reviewer

| Sr. No | Title of the lecture/ Academic session  | Title of the conference/ seminar etc.                           | Organized by  | Whether International/National |
|--------|---|---|---|--------------------------------|
| 1      | Invited talk on " Fluorescent Probe for Analytical Application  |   |   | National                       |
| 2      | Chaired Poster presentation session in  | International conference on Nanoscience and nanotechnology-2011 | School of Physical sciences, Swami RamanandTeerthMarathwada University, Nanded during 11-13 January 2010                        | International                  |
| 3      | Invited lecture on " Chemistry in Our Lives"  | International Year of Chemistry-2011                            | Department of Chemistry, Smt. KasturbaiWalchand College, Sangli on 23 <sup>rd</sup> Dec. 2011                                   | Regional                       |
| 4      | Invited talk on Revised of syllabus of B.Sc. Part II in Chemistry for College Teacher of Shivaji University, Kolhapur | Workshop  | Vivekanand College, Kolhapur on 10 <sup>th</sup> August 2011  | Regional                       |
| 5      | Invited talk on " Scope of Research in Green Chemistry"   | State Level Seminar on Frontiers of Research in Green Chemistry | Department of Chemistry, Arts, Science and Commerce College Ramanandnagar, Palus, Dist- Sangli on 25 <sup>th</sup> January 2011 | State Level                    |
| 6      | Delivered an invited lecture on " Research in fluorescence spectroscopy"  | National Conference on research in Chemical Sciences            | Department of Chemistry, Milliya, Arts, science and Management Science College, Beed during 1-2 <sup>nd</sup> February 2011     | National                       |

|    |   |   |  |             |
|----|---|---|--|-------------|
| 7  | Chaired Session on Invited talks                              | “National Conference on Commercialization of Renewable Energy Technology (CRET-2009) A Multimega event” | D.Y. Patil University Kolhapur (M.S.) on 21-23, October 2009   | National    |
| 8  | Invited Lecture “Career Opportunities After B.Sc. graduation” | Career Opportunities After B.Sc. graduation   | YashwantraoChavanMahavidyalayaW arana, 6 <sup>th</sup> February 2009   | Regional    |
| 9  | Chairman  | National Science Day-2011 Science Exhibition  | Shivaji University Kolhapur during 28 <sup>th</sup> February 2011 sponsored by His Excellency Chancellor’s office, Government of Maharashtra | Regional    |
| 10 | Chairman of Organization Committee                            | International Year of Chemistry   | Sponsored by UGC Delhi Feb 2011 to Dec.2011  | Regional    |
| 11 | Co-ordinator  | PG Avishkar 2011 Research Competition   | Shivaji University, Kolhapur   | Regional    |
| 12 | Co-ordinator  | Interuniversity Avishkar 2011   | Shivaji University, Kolhapur   | Regional    |
| 13 | Expert and Reviewer   | Research Competition 1-2 Dec, 2009  | Solapur University Solapur   | Regional    |
| 14 | Expert and Reviewer   | Interuniversity Research Competition Avishkar Festival 2009-10 11-13 January 2010                       | Solapur University Solapur   | State Level |
| 15 | Invited Talk  | Understanding Nanoscience   | ShahajirajeMahavidyalaya, Khatav during 24 <sup>th</sup> to 25 <sup>th</sup> February 2007   | Regional    |
| 16 | Expert  | Avishkar, 2008-2009, 12-13 December 2008  | Vivekananda College Kolhapur   | Regional    |