

CURRICULUM VITAE

Prof. Dr. Rajendra Shankarrao Patil

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Correspondence Address:

P. S. G. V. P. Mandal's S I Patil
Arts, G B Patel Science and STKVS
Commerce College Shahada, Dist.
Nandurbar.
Pin- 425409

Permanent Address:

21, Ganeshnagar, Shahada
Dist. Nandurbar (M. S.).
Pin- 425409

PROFESSIONAL SYNOPSIS

- Thirty four years of experience in academia and research, backed by M. Phil (Physics) in 1995 and Ph. D. (Physics) in 2006.

ACADEMIC DETAILS

Examination Passed	Board/ University	Group/ Subject	Percentage Secured	Class	Year of Passing
Ph. D.	Shivaji University, Kolhapur	Physics Thin Film	---	--	2006
M. Phil.	North Maharashtra University, Jalgaon	Physics Solid State	---	A Grade	1995
M. Sc.	Pune University, Pune	Physics	---	Second Class	1984
B. Sc.	Pune University, Pune	Physics	67 %	First Class	1982

THESIS / DISSERTATION TITLE

Ph. D. Thesis : "Physico-chemical Characterization of Chemically Deposited Nanocrystalline PbS, HgS and $Pb_{1-x}Hg_xS$ Films"

M. Phil. Dissertation : "Synthesis and Characterization of Hydrated Potassium Nickel Sulphate Single Crystals"

PROFESSIONAL EXPERIENCE

UG: 34 years, PG: 20 Years, Research: 20 years				
Sr. No.	Organization Name	Designation	From Date	To Date
1	P. S. G. V. P. Mandal's Arts, Science and Commerce Junior College Shahada, Dist. Nandurbar	Junior College Teacher	10-8-1984	9-6-1985
			8-7-1985	16-9-1985
2	P. S. G. V. P. Mandal's S I Patil Arts, G B Patel Science and STKVS Commerce College Shahada, Dist. - Nandurbar (M. S.)	Lecturer	17-9-1985	16-9-1993
		Lecturer (Senior Scale)	17-9-1993	26-7-1998
		Lecturer (Selection Grade)	27-7-1998	31-12-2005
		Associate Professor	1-1-2006	15-8-2013
		Professor	16-8-2013	9-8-2016
		Principal	10-08-2016	Till this date

ACADEMIC AND ADMINISTRATIVE RESPONSIBILITIES

- 1) **Principal**, PSGVPM's ASC College Shahada (Since 10-08-2016).
- 2) **Head**, Department of Physics, PSGVPM's ASC College Shahada.
- 3) **Chairman**, IQAC, PSGVPM's ASC College Shahada (Since 10-08-2016).
- 4) **Coordinator**, IQAC, PSGVPM's ASC College Shahada (2008-2016).
- 5) **Coordinator, NAAC Steering Committee during Reaccreditation:**
PSGVPM's ASC College, Shahada, Dist. Nandurbar.
- 6) **Coordinator, YCM Open University Nashik,**
Study Centre - PSGVPM's ASC College Shahada , Dist. Nandurbar.
 - a) B. A. / B. Com. (2000-2010) : 10 years,
 - b) M. B. A. (2008-2014): : 05 years,
- 7) **NSS Program Officer**, PSGVPM's ASC College Shahada :NSS Unit (1995-99),
- 8) **Director**, PSGVPM ASC College Staff Credit Society Shahada (2000-2010).
- 9) **Director, Y. C. M. Open University Nashik,**
Study Centre - PSGVPM's ASC College Shahada , Dist. Nandurbar.
 - a) B. A. / B. Com. : Since 1st January 2017,
 - b) M. B. A. : Since 1st January 2017.

BOOKS, PATENTS, PUBLICATIONS, CONFERENCES & WORKSHOPS

▪ Books	:-	18	
▪ Patents	:-	--	
▪ Publications (International)	:-	50	
▪ International Level Conferences	:-	11	
▪ National Level Conferences	:-	30	
▪ Workshops/Seminar	:-	20	
▪ Google Citation	:-	303	<i>h-index:- 12 i10 -index:- 14</i>
▪ Research Gate (RG) Score	:-	20.02	
▪ Research Gate Citations	:-	375	

BOOKS

A) Reference books: LAP LAMBERT Academic Publications

1. Chemical Deposition Route, Gas Sensors and Thin film Characterizations ISBN: 978-3-659-63290-7
2. SYNTHESIS, CHARACTERIZATION AND ANALYSIS OF CHEMICALLY DEPOSITED Cu₂O THIN FILMS

B) Text books: 30 (FYBSc = 15 SYBSc = 15)

PUBLICATIONS

- 1) **R. S. Patil**, C. D. Lokhande, R. S. Mane, H. M. Pathan, Oh-Shim Joo and Sung-Hwan Han, “ Successive ionic layer adsorption and reaction (SILAR) trend for nanocrystalline mercury sulfide thin films growth” ELSEVIER’S Materials Science and Engineering B; 129 (2006) 59–63. [Impact Factor: 2.17] [ISSN 0921-5107]
- 2) **R. S. Patil**, H. M. Pathan, T. P. Gujar and C. D. Lokhande, “Characterization of Chemically deposited Nanocrystalline PbS Thin Films”, SPRINGER’S Materials Science Letters; 41 (2006) 5723-5725. [Impact Factor: 2.307] [ISSN 0022-2461]
- 3) **R. S. Patil**, H. M. Pathan, T. P. Gujar and C. D. Lokhande, “Photoelectrochemical Studies of Chemically deposited Nanocrystalline p-type HgS Thin Films.” ELSEVIER’S Solar Energy; 81(2007)648-652. [Impact Factor: 3.47] [ISSN 0038-092X]
- 4) **R. S. Patil**, C.D. Lokhande, R.S. Mane, T.P. Gujar and Sung-Hwan Han, “Room temperature PbS nanoparticle growth, incubation in porous TiO₂ electrode for photosensitization application.” ELSEVIER’S Journal of non-crystalline solids; 353 (2007) 1645-1649. [Impact Factor: 1.77] [ISSN 0022-3093]
- 5) P. B. Ahirrao and **R. S. Patil**, “Studies on growth and characterization of copper iodide thin

films deposited by modified chemical method” Asian Journal of Physics 18 (2009) 321-326.

[ISSN 0791-3093]

- 6) P. B. Ahirrao, D. R. Patil, Sanjay S. Sonawane, M. S. Shinde and **R. S. Patil**, “Structural, Optical and Electrical properties of nanocrystalline cuprous oxide thin film deposited by Chemical method” Journal of Scientific Review, Volume 2, Issue 2, (2010) 86-90.

[ISSN 0975-0754]

- 7) P. B. Ahirrao, B. R. Sankapal and **R. S. Patil**, “Nanocrystalline p-type-cuprous oxide thin films by room temperature chemical bath deposition method” ELSEVIER’S Journal of Alloys and Compounds, 509 (2011) 5551–5554.

[Impact Factor: 2.99]

[ISSN 0925-8388]

- 8) P. B. Ahirrao, S. R. Gosavi, D. R. Patil, M. S. Shinde and **R. S. Patil**, “Photoluminescence properties of modified chemical bath deposited Copper Oxide thin film” Scholars Research Library, Archives of Applied Science Research, 2011, 3 (2):288-291.

[ISSN 0975-508X]

- 9) M. S. Shinde, P. B. Ahirrao and **R. S. Patil**, “Structural, Optical and Electrical Properties of Nanocrystalline ZnS thin films Deposited by Novel Chemical Route” Scholars Research Library, Archives of Applied Science Research, 2011, 3 (2):311-317.

[ISSN 0975-508X]

- 10) I. J. Patil, N.B.Patil, P.B. Ahirrao, P.P. Jagtap and **R. S. Patil**, “Edge Dislocation by Etchant on Cleavage Planes of Glycine Potassium Sulphate (GPS) Crystal” Scholars Research Library, Archives of Physics Research, 2011, 2 (1): 169-175.

[ISSN 0976-0970]

- 11) I. J. Patil, P.P. Jagtap, J. B. Chaudhari and **R. S. Patil**, “Topographical Studies of Ferro-Electric domains in Glycine Potassium Sulphate (GPS) Crystals ” Scholars Research Library, Archives of Physics Research, 2011, 2 (3): 86-90.

[ISSN 0976-0970]

- 12) M. S. Shinde, P. B. Ahirrao, I. J. Patil and **R. S. Patil**, “Studies on Nanocrystalline ZnS thin films prepared by modified Chemical bath deposition method” NISCAIR’s Indian Journal of Pure and Applied Physics, Vol. 49, Nov. 2011, 765-768.

[Impact Factor: 0.77]

[ISSN 0019-5596]

- 13) P. B. Ahirrao, S. R. Gosavi, S. S. Sonawane and **R. S. Patil**, “Wide band gap nanocrystalline CuSCN thin film deposited by modified chemical method” Archives of Physics Research, 2011, 2 (3):29-33.

[ISSN 0976-0970]

- 14) P. B. Ahirrao, N. O. Girase, D. R. Patil and **R. S. Patil**, “Photoelectrochemical (PEC) solar cell

- studies on chemically deposited p-CuI thin film” *Invertis Journal of Renewable energy*, Vol. 1, No. 3 (2011) 1-6. **[ISSN 2231-3419]**
- 15) U. M. Jadhav, S. R. Gosavi, S. N. Patel and **R. S. Patil**, “Studies on Characterization of Nanocrystalline Silver Sulphide Thin Films Deposited by Chemical Bath Deposition (CBD) and Successive Ionic Layer Adsorption and Reaction (SILAR) method” *Archives of Physics Research*, 2011, 2 (2):27-35. **[ISSN 0976-0970]**
- 16) S.G. Bachhava, **R.S. Patil**, P.B. Ahirrao, A.M. Patil, D.R. Patil, “Microstructure and magnetic studies of Mg–Ni–Zn–Cu ferrites” *Materials Chemistry and Physics* 129 (2011) 1104– 1109 . **[Impact Factor: 2.259]** **[ISSN: 0254-0584]**
- 17) **R. S. Patil** and C. D. Lokhande, “Photo electrochemical Characterization of Chemically Deposited Nanocrystalline Pb_{0.2}Hg_{0.8}S Thin Films” *Invertis Journal of Renewable energy*, vol. 1, No. 4 (2011) 174-178. **[ISSN 2231-3419]**
- 18) M. S. Shinde and **R. S. Patil**, “Studies on Structural, Optical and Electrical Properties of Nanocrystalline Cu₂S thin films Deposited by Novel Chemical Route” *International Journal of Material Science and Electronics Res.*, Vol. 2 (2011) 17-24. **[ISSN: 0976-6111]**
- 19) M. S. Shinde, P.B. Ahirrao, I. J. Patil and **R. S. Patil**, “Thickness Dependant Electrical and Optical Properties of Nanocrystalline Copper sulphide (Cu₂S) thin films Grown by Simple Chemical Route” *NISCAIR’s , Indian Journal of Pure & Applied Physics*, Vol. 50, (2012) 657-660. **[Impact Factor: 0.77]** **[ISSN 0019-5596]**
- 20) M. S. Shinde, P. B. Ahirrao, I. J. Patil, S. K. Disawal and **R. S. Patil**, “Studies on Physical properties of nanocrystalline Cu₂S thin films prepared by MCBD method” *International Journal of Nanoelectronics and materials*, 6, (2013) 29-35. **[ISSN: 1985-5761]**
- 21) U. M. Jadhav, S. N. Patel and **R. S. Patil**, “Room Temperature Deposition of Nanocrystalline CdS Thin Film by Successive Ionic Layer Adsorption and Reaction (SILAR) Method” *ISCA’s Research Journal of Material Science*, Vol. 1(1), February (2013), 21-25. **[ISSN 2320-6055]**
- 22) U. M. Jadhav, P. K. Baviskar, S. N. Patel and **R. S. Patil**, “Interconnected High Surface Area Fibrous Network of Chemically Grown CdS Films Towards Solar Cell Application” *Invertis Journal of Renewable energy*, vol. 3, No. 1 (2013) 15-25. **[ISSN 2231-3419]**
- 23) U. M. Jadhav, S. N. Patel and **R. S. Patil**, “Chemical synthesis of Nanocrystalline Silver sulphide thin films for Solar Cell Applications” *Invertis Journal of Renewable energy*, vol. 3, No. 1 (2013) 45-51. **[ISSN 2231-3419]**
- 24) U. M. Jadhav, S. N. Patel and **R. S. Patil**, “Synthesis of Silver Sulphide Nanoparticles by

Modified Chemical Route For Solar Cell Applications” ISCA’s Research Journal of Chemical Science, Vol. 3(7), July (2013), 69-74. [ISSN 2231-606X]

25) M. S. Shinde, D. R. Patil and **R. S. Patil**, “Ammonia Gas Sensing Property of Nanocrystalline Cu₂S thin films” NISCAIR’s, *Indian Journal of Pure & Applied Physics*, Vol. 51, (Oct. 2013) 713-716.

[Impact Factor: 0.77]

[ISSN 0019-5596]

26) U. M. Jadhav, S. N. Patel, M. S. Shinde and **R. S. Patil**, “Structural, Optical and Electrical properties of nanocrystalline Cadmium Sulphide thin films deposited by Novel chemical route” NISCAIR’s, *Indian Journal of Pure & Applied Physics*, Vol. 52, (Jan. 2014) 39-43.

[Impact Factor: 0.77]

[ISSN 0019-5596]

27) M. S. Sonawane and **R. S. Patil**, “Studies of Physical Properties of Nanocrystalline Nickel Sulphide Thin Films Grown by Simple Chemical Route” Scholars Research Library, Archives of Physics Research, 2014, 5 (2):32-37.

[ISSN: 0976-0970]

28) M. S. Sonawane, S. R. Gosavi and **R. S. Patil**, “Nanocrystalline CoS thin films Prepared by Modified Chemical Bath Deposition Method” *Journal of Chemical, Biological and Physical Sciences*, Vol. 51, (May-July 2014) 2416-2423.

[Impact Factor: 0.723]

[ISSN 2249- 1929]

29) M. S. Sonawane and **R. S. Patil**, “Characterization of Chemically Deposited Nanocrystalline Cobalt Sulphide Thin Films” *International Journal of Advanced Scientific and Technical Research*, Issue 4, Vol. 3, (May-June 2014) 57-64.

[ISSN: 2249-9954]

30) M. S. Sonawane, M. S. Shinde, A. N. Kulkarni and **R. S. Patil**, “Studies on Fabrication Techniques of Hetero-junction ‘CdS-CdTe’ Thin Filmolar cell” *Journal of Shivaji Univ. (S & T)*, Vol. 41 (2), 2014-15.

[ISSN: 0250-5347]

31) M. S. Shinde and **R. S. Patil**, “Gas Sensitivity of Cu₂S thin films by CBD Route” *International Journal of Chemical & Physical Sciences*, Vol. 3, (2015) 34-43.

[ISSN: 2319-6602]

32) Anil N. Kulkarni, Sandee A. Arote, Habib M. Pathan, **Rajendra S. Patil**, “Time dependent synthesis of crystalline Bi₂S₃ and its application as a sensitizer in SnO₂ based solar cells” *Int. J. Mater. Res. (formerly Z. Metallkd.)* 106 (2015) 314-316.

[Impact Factor: 0.723]

[ISSN: 1862-5282]

33) Smt. Swapna Samanta, M. S. Shinde and **R. S. Patil**, “Studies on Characterization of Cadmium Sulphide Films Deposited by Chemical Bath Deposition and Successive Ionic Layer Adsorption

- and Reaction (SILAR) Method” International Journal of Thin Films Science and Technology, 4, No. 2, 1-5 (2015). **[ISSN: 2090-9519]**
- 34) Anil N Kulkarni, Sandeep A Arote, Habib M Pathan And **Rajendra S Patil**, “Room temperature synthesis of crystalline Sb_2S_3 for SnO_2 photoanode-based solar cell application” SPRINGER’S Bull. Mater. Sci., Vol. 38, No. 2, (April 2015), 493–498. **[ISSN: 0250-4707]**
- 35) P. B. Ahirrao, M. S. Shinde, I. J. Patil and **R. S. Patil**, “Photoelectrochemical (PEC) Studies on Chemically Deposited CuSCN Thin Film by Simple Chemical Route” *Chem Sci Rev Lett* 2015, 4(13), 285-291. **[ISSN 2278-6783]**
- 36) I. J. Patil, M. S. Shinde, P.P. Jagtap ,P.B. Ahirrao and **R. S. Patil**, “Thermal Decomposition of Ferroelectric Glycine Potassium Sulphate Crystal” *Chem Sci Rev Lett* 2015, 4(13), 349-353. **[ISSN 2278-6783]**
- 37) Anil N. Kulkarni, M. B. Rajendra Prasad, Ravi V. Ingle, Habib M. Pathan, Gaber E. Eldesoky, Mu. Naushad , And **Rajendra S Patil**, “Structural and optical properties of nanocrystalline Sb_2S_3 films deposited by chemical solution deposition” Elsevier’s Optical Materials 46 (2015) 536–541. **[Impact Factor: 1.981]** **[ISSN: 0925-3467]**
- 38) Anil N. Kulkarni, Sandeep Arote, Habib M. Pathan, and **Rajendra S Patil**, “ Sb_2Se_3 sensitized heterojunction solar cells” SPRINGER’S Mater Renew Sustain Energy (2015) 4:15 **[ISSN: 2194-1467]**
- 39) M. S. Sonawane, M. S. Shinde and **R. S. Patil**, “Characterization of Nickel Sulphide Thin Films by modified chemical method” ” NISCAIR’s, *Indian Journal of Pure & Applied Physics*, Vol. 53, (Oct. 2015) 686-690. **[Impact Factor: 0.77]** **[ISSN 0019-5596]**
- 40) J. S. Suryawanshi, S. R. Gosavi and R. S. Patil, “Fabrication and Characterization of SnS Thin Films Prepared by SILAR Method” *Nano Vision*, Vol. 5(3), (March 2015), 31-38. **[ISSN 2319-7633]**
- 41) Smt. Swapna Samanta, M. S. Shinde, Dipak Salunke and **R. S. Patil** , “Studies on growth and characterization of CdTe thin films deposited by chemical bath deposition technique” Scholars Research Library’s Archives of Applied Science Research, 2015, 7 (11):10-15. **[ISSN 0975-508X]**
- 42) Smt. Swapna Samanta, M. S. Shinde and R. S. Patil “Synthesis and Characterization of Cadmium Selenide Nanocrystalline Thin Films Prepared Using Novel Chemical Approach” *J. Nano. Adv. Mat.* **4**, No. 2, (2016) 33-44. **[ISSN 2090-9608]**

- 43) A Kulkarni, S Arote, H Pathan, M Naushad and **R Patil**, "Bismuth sulphide sensitized tin oxide photoelectrode for solar cell Application" SPRINGER's Indian Journal of Phys; (19 Feb. 2016) 1-9. **[ISSN 0973-1458]**
- 44) M. S. Sonawane, P. K. Baviskar and **R. S. Patil**, " Synthesis Of Cobalt Sulphide Thin Film Electrode By Modified Chemical Bath Deposition Route And Its Supercapacitors Performance" Int. J. Adv. Res. 4 (12), 679-686. **[ISSN: 2320-5407]**
- 45) R. A. Wagh, D. B. Salunke, S. R. Gosavi and **R. S. Patil**, " Effect of Uniform Decoration of Ag₂S Nanoparticles on Physical Properties of Granular TiO₂" *Journal of Nano- and Electronic Physics*; Vol. 8 No 4 (2), (2016) 1-5. **[ISSN: 2077-6772]**
- 46) R. A. Wagh, S. P. Roy and **R. S. Patil**, " Synthesis and Characterisation of TiO₂ thin film prepared by Spin Coating Technique", International Journal of Innovative Research in Science, Engineering and Technology; Vol. 6, Issue 1, (January 2017) 471-476. **[ISSN: 2347-6710]**
- 47) Swapna Samanta, D. B. Salunke, S.R. Gosavi and R.S. Patil, "Structural and Optoelectronic Properties of Nanocrystalline CdTe Thin Films Synthesized by Using SILAR Technique", *Journal Of Nano- And Electronic Physics*, Vol. 9 No 5, 05028 (2017). **[ISSN: 2306-4277]**
- 48) M. S. Shinde and **R. S. Patil**, "Gas Selectivity in sensing by Modified Chemically Bath Deposited ZnS Films" *International Journal of Chemical & Physical Sciences*, Vol. 7, (2018) 654-658. **[ISSN: 2319-6602]**
- 49) Rahul Wagh, Anil N. Kulkarni, Prashant Baviskar, Habib M. Pathan, and Rajendra S Patil, "Fabrication of titanium dioxide (TiO₂) and mercury sulfide (HgS) heterojunction for photoelectrochemical study" SPRINGER'S Mater Renew Sustain Energy (2018) 7:13 **[ISSN: 2194-1467]**

CONFERENCES/WORKSHOP/SEMINAR

INVITED LECTURES IN CONFERENCES/WORKSHOP/SEMINARS:

- 1) Rajendra S. Patil invited talk on "Synthesis of Nanostructure Semiconductors Using Novel Chemical Route for Solar Cell Applications" at International Photovoltaic Solar Energy Conference (Solar Asia-2015) Organized by Savitribai Phule Pune University Pune, (M. S.) India, on 29 July - 1 August, 2015.
- 2) R. S. Patil, invited talk on "Synthesis of Nanomaterials Using Novel chemical Route" at National Seminar on "Advances in Nano Structured Materials and their Applications" organized by Department of Physics, CHC Arts, SGP Commerce and BBJP Science College Taloda Dist. Nandurbar on 22-23, January 2013.

- 3) R. S. Patil, invited talk on “Synthesis of Nanostructured Semiconductors Using SILAR Route for gas Sensors” at National Seminar *on Advanced Materials and its Applications* organized by Department of Physics, S. V. S ‘s Arts, and Science College Dondaicha Dist. Dhule on 1-2, February 2013.
- 4) R. S. Patil, invited talk on “Energy crisis and Global warming”, Invited Talk at National Conference on Recent Trends in Applied Sciences Organized by M. J. College Jalgaon, on 30-31 January 2015.
- 5) R. S. Patil, invited talk on “Choice Based Credit System: Opportunities and Challenges”, Invited Talk at National Conference on Higher Education: SWOT Organized by Vasantnao Naik Arts and Science college Shahada, Dist. Nandurbar on 13-14 August 2015.
- 6) Rajendra S. Patil invited talk on “Synthesis and Characterization of Nanomaterials deposited by Simple Chemical methods for PEC Solar Cell Applications” National conference on Recent development in Nanomaterials and their Applications (NCRDNMA 2016) Organized by G. T. Patil College Nandurbar, (M. S.) India, on 5-6 February, 2016.
- 7) R. S. Patil, Invited talk at NAAC Sponsored National seminar on curriculum Planing and implementation (NSCPI-2017) organized by SSVPS Dr. P. R. Ghogrey Science college Dhule on 17th January 2017.
- 8) R. S. Patil, invited talk on “Choice Based Credit System: Evaluation and Grading”, Invited Talk at State level Seminar on State examination board and reforms in examination Organized by M. D. Palesha Commerce college, Dhule on 27 February 2015.

PAPER PRESENTED IN CONFERENCES/WORKSHOP/SEMINARS:

(I) International Conferences / Seminars / Symposia:

- 1) **R. S. Patil**, H. M. Pathan, T. P. Gujar and C. D. Lokhande, “Preparation and Characterization of Chemically Deposited Nanocrystalline PbS Thin Films”, International Symposium on Advanced Materials and Processing (ISAMAP2K4), I. I. T., Kharagpur, India, 6-8 Dec. 2004.
- 2) **R. S. Patil**, H. M. Pathan, T. P. Gujar and C. D. Lokhande, “Preparation and Characterization of Chemically Deposited Nanocrystalline HgS Thin Films”, International Symposium on Advanced Materials and Processing (ISAMAP2K4), I. I. T., Kharagpur, India, 6-8 Dec. 2004.
- 3) **R. S. Patil**, and C. D. Lokhande, “Synthesis and Study of Physico-chemical properties of nanocrystalline mercury sulphide thin films” International Conference on Materials for Advanced Technologies (ICAMA- 2007), Shivaji University, Kolhapur (M.S.), India, 15-17 Nov. 2007.

- 4) **R. S. Patil** and C. D. Lokhande, "Synthesis and characterization of nanocrystalline $Pb_{1-x}Hg_xS$ thin films" International Conference on Nanomaterials and Applications (ICNAMA- 2008), Shivaji University, Kolhapur (M.S.), India, 9-11 Dec. 2008.
- 5) M. S. Shinde, M. S. Sonawane, P. B. Ahirrao, and **R. S. Patil**, "Studies on Ammonia Gas Sensing properties of nanocrystalline Cu_2S Thin Films Deposited by Novel Chemical route" 1st International Conference on Physics of Materials and Material based Device Fabrication (ICPM-MDF- 2012), Shivaji University, Kolhapur (M.S.), India, 17-19 Jan. 2012.
- 6) **R. S. Patil**, M. S. Shinde and D. R. Patil, "Studies on Chlorine (Cl_2) gas sensing properties of nanocrystalline ZnS thin films Deposited by Chemical Route " 2nd International Conference on Physics of Materials and Material based Device Fabrication (ICPM-MDF- 2014), Shivaji University, Kolhapur (M.S.), India, 13-15 Jan. 2014.
- 7) **R. S. Patil**, and M. S. Shinde "Gas Sensitivity of Nanofibrous Cu_2S thin Films Deposited by Novel Chemical Route" International Conference on Global Opportunities for Latest Developments in Chemistry and Technology (GOLD CT 2014), organized by School of Chemical Science, North Maharashtra University, Jalgaon on 6-8, Feb. 2014.
- 8) **Rajendra S. Patil** and P. B. Ahirrao, "Synthesis of Nanocrystalline Cadmium Sulphide Thin films for Photoelectrochemical Solar Cell" International Conference on Recent Trends and Challenges in Science and Technology (RTCST-2014), Organized by PRES's Padmashri Vikhe Patil College of Arts, Science and Commerce Pravaranagar-Loni, Tal- Rahata (M. S.) 20-22 August, 2014.
- 9) **Rajendra S. Patil** "Synthesis of Nanostructure Semiconductors Using Novel Chemical Route for Solar Cell Applications" International Photovoltaic Solar Energy Conference (Solar Asia-2015) Organized by Savitribai Phule Pune University Pune, (M. S.) India, on 29 July - 1 August, 2015.
(Invited Talk)
- 10) **R. S. Patil** P. B. Ahirrao, and S. S. Sonawane, "Synthesis and Photoluminescence properties of Copper Iodide deposited by chemical method" International Symposium cum workshop on Luminescence Materials (ISWLM- 2015), M. S. University, Baroda (Gujrat), India, 18-20 Dec. 2015.
- 11) **R. S. Patil** and Jitendra Suryawanshi " Tin Selenide ($SnSe$) thin films deposited by SILAR method as a H_2S gas Sensor " International Conference on Nanotechnology Addressing the Convergence of Materials Science, Biotechnology and Medical Science Organized by D. Y. Patil University, Kolhapur, on 09th-11th November, 2017.

(II) National Conferences / Seminars / Symposia:

- 1) R. R. Ahire, **R. S. Patil**, H. M. Pathan and C. D. Lokhande, "Photoelectrochemical Characterization of Bi_2Se_3 Thin Films", National Symposium on Recent Advances in

Renewable Energy Technologies (RARE-T), Shivaji University, Kolhapur (MS), India, 13-15 August 2002.

- 2) **R. S. Patil**, H. M. Pathan and C. D. Lokhande, "Growth of lead sulphide thin films by SILAR method" at 14th AGM and Theme Symposium on Novel Polymeric materials of MRSI, India during Feb. 11-13, 2003 held at BARC Mumbai.
- 3) **R. S. Patil**, T. P. Gujar and C. D. Lokhande, "Photoelectrochemical characterization Nanocrystalline p-type HgS Thin Films Deposited by M-CBD method", National Seminar on Materials for Advanced Technologies (NASMAT- 2006), Shivaji University, Kolhapur (M.S.), India, 23-25 Jan. 2006.
- 4) **R. S. Patil** and C. D. Lokhande, "Growth of Nanocrystalline $Pb_{1-x}Hg_xS$ Thin Films by Novel Chemical arrested route" at *National Conference on Current Trends in Materials Research for Advanced Technologies (NCMRAT- 2007)*, Physics department, Dr. B. A. M. University Aurangabad (M.S.), India, 29-31Jan. 2007.
- 5) M. S. Shinde, P. B. Ahirrao, I. J. Patil and **R. S. Patil**, "Studies on Nanocrystalline ZnS thin films prepared by Chemical Bath Deposition Method" at Theme Symposium on Advanced Material: Monoliths to Composites organized by Dept. Of Material Science, Sardar Patel University Vallabh Vidyanagar-388 120 (INDIA) during 8-11 February 2010.
- 6) S. K. Tayade and **R. S. Patil**, "Restructuring in Higher Education and present status of Private Higher Education Institutes in Maharashtra" at National Seminar on *Restructuring and Privatisation of Higrer Education: inclusiveness and Access* organized by N-MUCTO and MFUCTO at North Maharashtra Unioversity, Jalgaon on 19-21 November 2010.
- 7) M. S. Shinde, P. B. Ahirrao and **R. S. Patil**, "Thickness dependant Electrical and Optical properties of Nanocrystalline Copper Sulphate thin films deposited by simple Chemical route" at *National level Conference on Recent Advances in material Synthesis and Characterization (NCRAMS-2011)*" organized by Dadasaheb D. N. Bhole College Bhusawal, Dist. Jalgaon on 22-23 January 2011.
- 8) P. B. Ahirrao and **R. S. Patil**, "Synthesis and photo luminance properties of Cu_2O deposited by modified chemical method" at *National Conference on Luminescence and its Applications*, jointly organized by Pt. Ravishankar Shukla University, Raipur, Luminescence Society of India and Disha Institute of Management & Technology, Raipur on 7-9 Feb. 2011.
- 9) P. B. Ahirrao and **R. S. Patil**, "Photoelectrochemical characterization of Cu_2O thin films deposited by modified chemical bath deposition", at National Conference on Materials & Devices for Future Technology, organized by School of Physical Sciences, North Maharashtra University, Jalgaon on 7th March, 2011.
- 10) P. B. Ahirrao and **R. S. Patil**, "Synthesis and characterizations of wide band gap p-type

semiconductor materials”, at National Conference on Nanostructures & Nanomaterials organized by Department of Chemical Technology, North Maharashtra University, Jalgaon on 19th March, 2011.

- 11) U. M. Jadhav, S. N. Patel and **R. S. Patil**, “Characterization of Nanocrystalline Ag₂S Thin Films Deposited by Novel Modified Chemical Bath Deposition Method”, at National Conference on Nanomaterials, Industrial Polymers and Eco-friendly Coatings-Perspective and Challenges (NIPEC-2012) organized by Department of Chemical Science and UDCT, North Maharashtra University, Jalgaon on 18th February, 2012.
- 12) M. S. Shinde, P. B. Ahirrao, I. J. Patil, D. R. Patil and **R. S. Patil**, “Gas sensing properties of Nanocrystalline Cu₂S thin films deposited by Chemical route” at National Conference *on Lasers and it's Applications (NCLAM-2012)*” organized by Physics Dept., Sant Gadage Baba University, Amrawati on 29-30, May 2012.
- 13) M. S. Shinde, P. B. Ahirrao, I. J. Patil, D. R. Patil and **R. S. Patil**, “Hydrogen Gas Sensing Performance of ZnS Nanocrystals Grown by Novel Chemical route” at National Conference *on Indian Development in Recent and Ideal Semiconductor for Novel Applications (NC IDRIS-2012)*” organized by Department of Physics, Arts, Commerce and Science College Navapur Dist. Nandurbar on 6-7, October 2012.
- 14) **R. S. Patil** “Synthesis of Nanomaterials Using Novel chemical Route” **Invited Talk** at National Seminar *on Advances in Nano Structured Materials and their Applications* organized by Department of Physics, CHC Arts, SGP Commerce and BBJP Science College Taloda Dist. Nandurbar on 22-23, January 2013.
- 15) **R. S. Patil** “Synthesis of Nanostructured Semiconductors Using SILAR Route for gas Sensors” **Invited Talk** at National Seminar *on Advanced Materials and it's Applications* organized by Department of Physics, S. V. S ‘s Arts, and Science College Dondaicha Dist. Dhule on 1-2, February 2013.
- 16) U. M. Jadhav, S. B. Patil, I. J. Patil, S. N. Patel and **R. S. Patil**, “Characterization of Nanocrystalline CdS-Ag₂S Thin Films Deposited by Novel Chemical Bath Deposition Method”, at National Conference on Recent Advances In Chemical Sciences and Technology (RACST-2013) organized by Department of Basic Sciences, UICT, North Maharashtra University, Jalgaon on 21st September, 2013.
- 17) P. Z. Zambre, P. B. Ahirrao, O. H. Mahajan and **R. S. Patil**, “Luminescent properties of Er³⁺ and Eu³⁺ co-activated Sr₂CeO₄ phosphor prepared by modified solid state diffusion method”, at National Seminar on Industrial Important Materials organized by VSR and NVR autonomous college Tenali, Andhra Pradesh on 6th November 2014.
- 18) P. Z. Zambre, P. B. Ahirrao, O. H. Mahajan and **R. S. Patil**, “Luminescent and colorimetric

- studies of RE³⁺ activated Sr₂CeO₄ phosphor prepared by modified solid state diffusion method”, at National Seminar on Display Materials (NSDM-14) organized Department of Physics by PBN college Nidubrolu, Andhra Pradesh on 7-8, November 2014.
- 19) M. S. Sonawane and **R. S. Patil**, “Growth of Nickel Sulphide thin films using Novel Chemical Route”, at National conference on Emerging trends in Nanoscience and Nano technology organized by Department of Physics, MVPS’s Arts, Commerce and Science College Ozar, Dist. Nashik on 23- 24 Dec. 2014.
 - 20) M. S. Shinde, D. T. Tayade, I. J. Patil and **R. S. Patil**, “LPG Gas Sensing Performance of nanocrystalline ZnS thin films deposited by Novel Chemical route” at National Conference *on Material Advances for better future*” organized by Department of Chemistry and Physics, Jijamata college of Science and Arts, Bhende, Tal. Newasa, Dist. Ahamadnagar on 16-17, January 2015.
 - 21) **R. S. Patil**, “Energy crisis and Global warming”, **Invited Talk** at National Conference on Recent Trends in Applied Sciences Organized by M. J. College Jalgaon, on 30-31 January 2015.
 - 22) P. B. Ahirrao and **R. S. Patil**, “Luminescent study of CuI deposited by modified chemical method”, at National Conference on Recent Trends in Applied Sciences organized M. J. College Jalgaon, on 30-31 January 2015.
 - 23) **R. S. Patil**, “Choice Based Credit System: Opportunities and Challenges”, **Invited Talk** at National Conference on Higher Education: SWOT Organized by Vasantao Naik Arts and Science college Shahada, Dist. Nandurbar on 13-14 August 2015.
 - 24) **Rajendra S. Patil** “Synthesis and Characterization of Nanomaterials deposited by Simple Chemical methods for PEC Solar Cell Applications” National conference on Recent development in Nanomaterials and their Applications (NCRDNMA 2016) Organized by G. T. Patil College Nandurbar, (M. S.) India, on 5-6 February, 2016. (**Invited Talk**)
 - 25) **R. S. Patil**, “Synthesis, characterization and optoelectronics properties of TiO₂/Ag₂S nanocomposit films”, at National conference on electronic materials thin films and its applications (NCEMTFA-2016) organized Dept. of Electronics and Physics, JDMVP Arts and Science college Jalgaon, Dist. Jalgaon on 9-10 December 2016.
 - 26) **R. S. Patil**, “Invited talk and session chairman at NAAC Sponsored National seminar on curriculum Planing and implementation (NSCPI-2017) organized by SSVPS Dr. P. R. Ghogrey Science college Dhule on 17th January 2017
 - 27) Chairman, National conference RETPS - 2017 organized by PSGVPM ASC College Shahada on 23 September 2017.
 - 28) Expert for Avishkar 2017 (Phase I) organized by SPDM College Shirpur, Dist. Dhule.

- 29) Chairman, National level work shop on NET/SET in Physical sciences organized by PSGVPM ASC College Shahada on 4-5, January 2018.
- 30) **R. S. Patil**, “Gas sensing response of SnO₂ thin films” at National conference on Non renewable energy sources for rural development of India organized by Uttamrao Patil college, Dahivel, Dist.- Dhule on 6th Jan. 2018.

(III) State level Conferences / Seminars / Symposia:

- 1) J. S. Bhamare, I.J.Patil and **R. S. Patil**, “Studies on preparation and electrical characterization of zinc oxide films Deposited by Successive Ionic Layer Adsorption and Reaction (SILAR) method” State Level Seminar on Recent Advances In Nanocrystalline Materials And Applications (RAINMAA-2009), P. S. G. V. P. Mandal’s ASC College, Shahada , 06-07 Feb 2009.
- 2) P. B. Ahirrao, S. S. Sonawane, D. R. Patil and **R. S. Patil**, “Preparation and Charactreization of nanocrystalline p-CuSCN thin film by Chemical Method” at State level Seminar on Advances in Science and Technology of Nanomaterials organized by S. G, Patil ASC College Sakri, Dist. Dhule during 8-9 March 2010.
- 3) S. D. Sindkhedkar, **R. S. Patil**, S. K. Tayade and A. S. Patil, “The Global Change in Higher Education: An Overview” at State level Seminar on “*Status of Higher Education in the present Scenario and the Role of Teachers*” organized by P. T. E. Society’s M. M. Arts, Science and Commerce College Pachora, Dist. Jalgaon on 19 February 2011.
- 4) **R. S. Patil**, “Choice Based Credit System: Evaluation and Grading”, **Invited Talk** at State level Seminar on State examination board and reforms in examination Organized by M. D. Palesha Commerce college, Dhule on 27 February 2015.
- 5) **Coordinator**, District level Avishkar-2015, Organized by PSGVPM’s ASC College Shahada.
- 6) **Chairman**, Yuva rang 2017-18, district level Yuvak Mahotsav organized by PSGVPM ASC College Shahada on 29th, January 2018.

Participation in Conferences/Workshop/Seminars:

A) International :

- 1) International Symposium on Advanced Materials And Processing (ISAMAP-2004) Organized by Indian Institute of Technology Kharagpur, India, 6 - 8 Dec. 2004.
- 2) International Conference on Materials for Advanced Technologies (ICAMA- 2007), Shivaji University, Kolhapur (M.S.), India, 15-17 Nov. 2007.
- 3) International Conference on Nanomaterials and Applications (ICNAMA- 2008), Shivaji University, Kolhapur (M.S.), India, 09-11, Dec 2008.
- 4) International Conference on Physics of Materials and Material based Device Fabrication (ICPM-MDF- 2012), Shivaji University, Kolhapur (M.S.), India, 17-19 Jan. 2012.

- 5) International Conference on Physics of Materials and Material based Device Fabrication (ICPM-MDF- 2014), Shivaji University, Kolhapur (M.S.), India, 13-15 Jan. 2014.
- 6) International Conference on Global Opportunities for Latest Developments in Chemistry and Technology (GOLD CT 2014), organized by School of Chemical Science, North Maharashtra University, Jalgaon on 6-8, Feb. 2014.
- 7) International Conference on Recent Trends and Challenges in Science and Technology (RTCST-2014), Organized by PRES's Padmashri Vikhe Patil College of Arts, Science and Commerce Pravaranagar-Loni, Tal- Rahata (M. S.) on 20-22, August 2014.
- 8) International Photovoltaic Solar Energy Conference (Solar Asia-2015) Organized by Savitribai Phule Pune University Pune, (M. S.) India, on 29 July - 1 August, 2015.
(INVITED TALK)
- 9) International Symposium cum workshop on Luminescence Materials (ISWLM- 2015), M. S. University, Baroda (Gujarat), India, 18-20 Dec. 2015.
- 10) International Conference on Nanotechnology Addressing the Convergence of Materials Science, Biotechnology and Medical Science Organized by D. Y. Patil University, Kolhapur, on 09th-11th November, 2017.

B) National:

- 1) National Symposium on Recent Advances in Renewable Energy Technologies (RARE-T 2002) at School of Energy studies, Dept of Physics, Shivaji University Kolhapur during August 13-15, 2002.
- 2) 14th AGM and Theme Symposium on Novel Polymeric materials of MRSI, India during Feb. 11-13, 2003 held at BARC Mumbai.
- 3) National Seminar on materials for Advanced Technologies (NASMAT-2006) Organized by Department of Physics, Shivaji University, Kolhapur (India) during 23 to 25 December 2006.
- 4) National Conference on Current Trends in Materials Research for Advanced Technologies (NCMRAT- 2007), Physics department, Dr. B. A. M. University Aurangabad (M.S.), India, 29-31 Jan. 2007.
- 5) Theme Symposium on Advanced Material: Monoliths to Composites organized by Dept. Of Material Science, Sardar Patel University Vallabh Vidyanagar-388 120 (INDIA), 8-11 February 2010.
- 6) National Seminar on Restructuring and Privatization of Higher Education: inclusiveness and Access organized by N-MUCTO and MFUCTO at North Maharashtra University, Jalgaon on 19-21 November 2010.
- 7) National level Conference on Recent Advances in material Synthesis and Characterization

- (NCRAMS-2011)” organized by Dadasaheb D. N. Bhole College Bhusawal, Dist. Jalgaon on 22-23 January 2011.
- 8) National Conference on Luminescence and its Applications, jointly organized by Pt. Ravishankar Shukla University, Raipur, Luminescence Society of India and Disha Institute of Management & Technology, Raipur on 7-9 Feb. 2011.
 - 9) National Conference on Materials & Devices for Future Technology, organized by School of Physical Sciences, North Maharashtra University, Jalgaon on 7th March, 2011.
 - 10) National Conference on Nanostructures & Nanomaterials organized by Department of Chemical Technology, North Maharashtra University, Jalgaon on 19th March, 2011.
 - 11) National Seminar on Gandhi Thoughts: The only Solution for corruption and terrorism organized by P. S. G. V. P. Mandal’s SIP Arts, GBP Science and STSKVS Commerce College Shahada (M. S.) on 23-24 December 2012.
 - 12) National Conference on Nanomaterials, Industrial Polymers and Eco-friendly Coatings-Perspective and Challenges (NIPEC-2012) organized by Department of Chemical Science and UDCT, North Maharashtra University, Jalgaon on 18th February, 2012.
 - 13) National Seminar on “Recent Advances in Polymer Science” organized by P. S. G. V. P. M. College of Pharmacy Shahada (M. S.) on 24-25 February 2012.
 - 14) National Conference on Nanostructures and Nanomaterials (NCNN-2012) organized by Department of Chemical Technology, North Maharashtra University, Jalgaon at Ekalavya Study Centre Nandurbar on 28th March, 2012. (**SESSION CHAIRMAN**)
 - 15) National Conference on Lasers and its Applications (NCLAM-2012)” organized by Department of Physics, Sant Gadage Baba Amrawati University, Amrawati on 29-30, May 2012.
 - 16) National Conference on Indian Development in Recent and Ideal Semiconductor for Novel Applications organized by Department of Physics, Arts, Commerce and Science College Navapur Dist. Nandurbar on 6-7, October 2012. (**SESSION CHAIRMAN**)
 - 17) National Seminar on Advances in Nano Structured Materials and their Applications organized by Department of Physics, CHC Arts, SGP Commerce and BBJP Science College Taloda Dist. Nandurbar on 22-23, January 2013. (**INVITED TALK**)
 - 18) National Seminar on Advanced Materials and its Applications organized by Department of Physics, S. V. S ‘s Arts, and Science College Dondaicha Dist. Dhule on 1-2, February 2013. (**INVITED TALK**)
 - 19) National Conference on Recent Emerging Trends in Plant Sciences (RETPS-2013) organized by P. S. G. V. P. Mandal’s SIP Arts, GBP Science and STSKVS Commerce College Shahada (M. S.) on 6-7 September 2013.

- 20) National Conference on Recent Advances In Chemical Sciences and Technology (RACST-2013) organized by Department of Basic Sciences, UICT, North Maharashtra University, Jalgaon on 21st September, 2013.
- 21) National Workshop on Advances In Material processing organized by School of Physical Sciences, North Maharashtra Univ., Jalgaon on 8th March, 2014.
- 22) National Seminar on Industrial Important Materials organized by VSR and NVR autonomous college Tenali, Andhra Pradesh on 6th November 2014.
- 23) National Seminar on Display Materials (NSDM-14) organized Department of Physics by PBN College Nidubrolu, Andhra Pradesh on 7-8, November 2014.
- 24) National conference on Emerging trends in Nanoscience and Nano technology organized by Department of Physics, MVPS's Arts, Commerce and Science College Ozar, Dist. Nashik on 23- 24 December 2014.
- 25) National Conference *on Material Advances for better future*” organized by Department of Chemistry and Physics, Jijamata college of Science and Arts, Bhende, Tal. Newasa, Dist. Ahamadnagar on 16-17, January 2015.
- 26) National Conference on Recent Trends in Applied Sciences Organized by M. J. College Jalgaon, on 30-31 January 2015.
(Invited talk and Session chairman)
- 27) National Conference on Higher Education: SWOT Organized by Vasanttrao Naik Arts and Science college Shahada, Dist. Nandurbar on 13-14 August 2015. **(Invited talk and Session chairman)**
- 28) National Seminar on Recent Trends in Environment Protection: Concern and Challenges, Organized by Arts, Commerce and Science college Songir, Dist. Dhule on 5 October 2015. **(Session chairman)**
- 29) National conference on Organized by G. T. Patil College Nandurbar, (M. S.) India, on 5-6 February, 2016. **(Invited Talk)**
- 30) National conference on electronic materials thin films and its applications (NCEMTFA-2016) organized Dept. of Electronics and Physics, JDMVP Arts and Science college Jalgaon, Dist. Jalgaon on 9-10 December 2016.
(SESSION CHAIRMAN)
- 30) **R. S. Patil**, “Invited talk and session chairman at NAAC Sponsored National seminar organized by SSVPS Dr. P. R. Ghogrey Science college Dhule on 17th January 2017
- 31) Chairman, National conference RETPS - 2017 organized by PSGVPM ASC College Shahada on 23 September 2017.
- 32) Expert for Avishkar 2017 (Phase I) organized by SPDM College Shirpur, Dist. Dhule.

- 33) Chairman, National level work shop on NET/SET in Physical sciences organized by PSGVPM ASC College Shahada on 4-5, January 2018.
- 34) **R. S. Patil**, “Gas sensing response of SnO₂ thin films” at National conference on Non renewable energy sources for rural development of India organized by Uttamrao Patil college, Dahivel, Dist.- Dhule on 6th Jan. 2018.

C) State / University Level:

- 1) Conference on Curriculum Development in Physics held at RS Mahavidyalaya Latur during 2 -3 May 2002.
- 2) NAAC sponsored State level workshop on “Post Accreditation Agenda” held on Nov. 29, 2003 at KET’s Vaze College, Mumbai.
- 3) Workshop on “Curriculum development in Physics (WCDP-2004)”, held at PSGVPM’s ASC College, Shahada during March 19-20, 2004 (**Convener**).
- 4) Workshop of Exam Reforms held at YCMOU, Nashik on April 28, 2004.
- 5) University level workshop on Syllabus framing for S. Y. B. Sc. Physics at Rashtriya ASC College Chalisgaon.
- 6) Workshop on Question Bank preparation for F. Y. B. Sc. Physics at North Maharashtra University Jalgaon.
- 7) Workshop on Question Bank preparation for S. Y. B. Sc. Physics at North Maharashtra University Jalgaon.
- 8) University Level Workshop for “*Reconstructing of the Syllabi for Physics at T.Y.B.Sc*” held on March 15-16, 2009 at Shri V.S. Naik Arts, Commerce & Science College, Raver
- 9) Workshop of Study Center coordinators and Directors at Y. C. M. Open University Nashik on 22-23 December 2009.
- 10) Workshop on “National Knowledge Commission’s Recommendations” at Bendale Mahila Mahavidyalaya, Jalgaon held on 16th January 2010.
- 11) Workshop on “*Innovative Experiments and Technological Advances at Under graduate Course in Physics*” held on 29th January 2010 at Moolji Jaitha College, Jalgaon.
- 12) Workshop on “*Visit to laboratories for exploring current trends & career opportunities in Physics*” held at NMU, Jalgaon on 23 Feb. 2010.
- 13) UGC sponsored State Level Seminar on “*Advances in Science and technology on Nanomaterials*” held at V. V. M’s S. G. Patil College, Sakri on 08-09 March 2010.
- 14) UGC sponsored State level Seminar on “*Status of Higher Education in the present Scenario and the Role of Teachers*” held at P. T. E. Society’s M. M. Arts, Science and Commerce College Pachora, Dist. Jalgaon on 19 February 2011.
- 15) University Level Workshop on “*First Year B. Sc. PHYSICS Syllabi revision* ” held at S. G.

- Patil Arts, Commerce & Science College, Sakri, Dist. Dhule on 27 March 2012.
- 16) University Level Workshop on “*Second Year B. Sc. PHYSICS Syllabi revision*” held at G. D. M. Arts, K. R. N. Commerce & M. D. Science College, Jamner, Dist. Jalgaon on 10th February 2013.
 - 17) University Level Workshop on “*Third Year B. Sc. PHYSICS Syllabi revision*” held at R. C. Patel Arts and Science College Shirpur during 23-24 February 2014.
 - 18) University Level Workshop on “*M. Sc. PHYSICS Syllabi revision*” held at Pratap College Amalner, Dist. Jalgaon on 29 April 2014.
 - 19) University Level Workshop on “*First Year B. Sc. PHYSICS Syllabi revision*” held at S. S. V. P. S. Dr. P. R. Ghogare Science College, Dhule, Dist. Dhule on 17 January 2015.
 - 20) University Level Workshop on “*Third Year B. Sc. PHYSICS Practicals*” held at Rashtriya NYNC Arts, Science and Commerce College Chalisgaon, Dist. Jalgaon on 27 January 2015.
 - 21) **Invited Talk** at State level Seminar on State examination board and reforms in examination Organized by M. D. Palesha college of commerce, Dhule on 27 February 2015.
 - 22) **Coordinator**, Nandurbar district Avishkar-2015 organised by PSGVPM’s Arts, commerce and science college, Shahada, dist.-Nandurbar on 22 Nov. 2015.
 - 23) University Level Workshop on “*Second Year B. Sc. PHYSICS Syllabi revision*” held at Arts and Science College, Dahivel, Dist. Dhule on 14th January 2016.
 - 24) University Level Workshop on “*Third Year B. Sc. PHYSICS Syllabi revision*” held at PSGVPM Arts, Commerce and Science College, Shahada, Dist. Nandurbar on 25th January 2016.
 - 25) University Level Workshop on “*Indian Patenting and filing procedures*” held at North Maharashtra University, Jalgaon on 23 August 2016
 - 26) University Level Workshop on “*first Year M. Sc. PHYSICS Syllabi revision*” held at R. C. Patel Arts and Science College, Shirpur Dist. Dhule on 23rd February 2017.
 - 27) University Level Workshop on “*Maharashtra Public University Act -2016*” organized by JDMVP ASC College Jalgaon on 21 March 2017.
 - 28) University Level Workshop on “*First Year B. Sc. PHYSICS Syllabi revision as per CBCS*” held at Arts, Commerce and Science College, Taloda, Dist. Nandurbar on 30 June 2018

RESERCH ACTIVITES

- **RESEARCH SPECIALIZATION**

- Nanotechnology and nanomaterial synthesis,
- Synthesis and Characterization of Nanomaterials,
- Electrochemical photovoltaic cell,

- Semiconductor sensitised solar cell,
- Nano sensors, Super capacitors,
- Chemical bath deposition and SILAR deposition.

• **RESEARCH PROJECTS**

(Sponsored projects (MRP/VCRMS/Other) & Consultancy Projects)

Sr No.	Title of Project	Name of Sponsoring Agency	Period	Amount in Lakhs	Status of completion
1	“Gel growth and Characterization of Ammonium Nickel Sulfate Single Crystals.”	WRO, UGC, New Delhi	June 2001 to May 2003.	0.32	Completed
2	“Preparation and Characterization of Chemically Deposited Nanocrystalline PbS and HgS thin films.”	WRO, UGC, New Delhi	June 2005 to May 2007	0.63	Completed
3	“Characterization of Nanocrystalline CuI and Cu ₂ O thin films Deposited by Modified Chemical Method.”	WRO, UGC, New Delhi	August 2009 to August 2011	1.10	Completed

• **RESEARCH GUIDANCE**

Sr. No.	Name of Student with date of registration	Ph.D / M.Phil.	Thesis Title	Status
01	Mr. Ahirrao Prakash B. DOR: 12-05-2008	Ph. D.	Studies on growth and characterisation of chemically deposited CuI, Cu ₂ O and CuSCN thin films	Awarded 27-12-2011
02	Mr. Shinde Mahendra S. DOR: 23-01-2009	Ph. D.	Studies on gas sensing properties of chemically deposited Nano crystalline Copper sulphide and Zinc sulphide thin films	Awarded 08-04-2013
03	Mr. Jadhav Uddhav M. DOR: 12-05-2008	Ph. D.	Studies on chemical synthesis and characterisation of Nanocrystalline CdS, Ag ₂ S and CdS-Ag ₂ S thin films	Awarded 10-05-2014
04	Mr. Kulkarni Anil N. DOR: 22-02-2011	Ph. D.	Synthesis of Bismuth and Antimony Chalcogenides for solar cell applications	Awarded 13-02-2016
05	Mr. Sonawane Milind S. DOR: 22-02-2011	Ph. D.	Studies on chemical synthesis and characterisation of Cobalt sulphide and Nickel sulphide thin films for supercapacitor	Awarded 17-05-2016
06	Smt. Samanta Sapana DOR: 20-01-2012	Ph. D.	Studies on synthesis and Photoelectrochemical characterisation of chemically deposited Nanocrystalline CdX (X = S, Se and Te) thin films.	Awarded 15-12-2017

07	Mr. Wagh Rahul A. DOR: 06-05-2013 DOA:	Ph. D.	Studies on synthesis and characterization of nanocrystalline HgS and Ag ₂ S thin films onto TiO ₂ for PEC solar cell	Submitted
08	Mr. Surywanshi Jitendra S. DOR: 23-01-2009 DOA:	Ph. D.	Studies on gas sensing properties of chemically deposited Tin sulphide, Tin selenide and Tin oxide thin films	Ongoing
09	Mr. Baviskar Vijay S. DOR: 23-01-2009 DOA:	Ph. D.	Synthesis and characterization of Bismuth selenide and Copper sulphide thin films onto TiO ₂ for PEC Solar cell	Ongoing
10	Mr. Wagh Snehal S. DOR: 23-01-2009	Ph. D.		Ongoing
11	Mr. Shinde Abhiraje DOR: 23-01-2009	Ph. D.		Ongoing
12	Mr. Padwal Sachin DOR: 23-01-2009	Ph. D.		Ongoing

MEMBERSHIP OF NATIONAL SCIENTIFIC PROFESSIONAL BODIES

- 1) Material Research Society of India, New Delhi,
- 2) Indian Association of Physics Teachers, Bangalore,
- 3) Bhaskaracharya Research Institute, Dhule,
- 4) Asian Journal of Chemical and Environmental Research (AJCER),
- 5) Luminescence Society of India, Baroda.

FELLOWSHIPS AND AWARDS RECEIVED

FELLOW -

Associated member of Institute of Physics, London

AWARD -

Best teacher award from North Maharashtra University Jalgaon (2005).

MEMBERSHIP OF UNIVERSITY AUTHORITIES

- 1) Member of Senate, North Maharashtra University Jalgaon [November 1995 to October 2000, November 2010 to October 2015 and 19th Sept. 2016 onwards],
- 2) Member, Board Of Studies in Physics, North Maharashtra University Jalgaon [November 2000 to October 2005, November 2005 to October 2010 and November 2010 to October 2015]
- 3) Chairman, Board Of Studies in Physics, North Maharashtra University Jalgaon [November 2005 to October 2010].
- 4) Member, Examination Unfair means Inquiry Committee, North Maharashtra University Jalgaon [April 2006 to March 2011],
- 5) Member, BUTR, North Maharashtra University Jalgaon [November 2005 to October 2010],

- 6) Member, Research Recognition Committee, North Maharashtra University Jalgaon [November 2005 to October 2010],
- 7) Member, Academic Council, North Maharashtra University Jalgaon [November 2005 to October 2010],
- 8) Member, Grievances' Redressal Cell, North Maharashtra University Jalgaon [November 2010 to October 2015].
- 9) Member, Admission committee (Centralized Admission Process), North Maharashtra University Jalgaon (AY 2013-14 to 2018-19)
- 10) Member, Research and Recognition Committee, Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon (AY 2018-19 to 2022-23)
- 11) Member, Board of examination and Evaluation, Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon (AY 2018-19 to 2022-23)
- 12) Member, Board of Research, Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon (AY 2018-19 to 2022-23)
- 13) Member, Academic audit committee, Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon (AY 2018-19)

DEVELOPMENT OF E-LEARNING DELIVERY PROCESS/MATERIAL

Sr. No.	e-learning delivery process/material	Title of the process/material	Details of the website	No of modules developed
1	Lecture Video	Laser and Its Applications	www.psgvpasc.ac.in	02
2	Lecture Video	Solar Energy	www.psgvpasc.ac.in	01
3	Lecture Video	Solar cell	www.psgvpasc.ac.in	01
2	Practical E-manual	B. Sc. I, II and III	www.psgvpasc.ac.in	03

CO-CURRICULAR AND EXTENSION ACTIVITIES

Co-curricular activities:

- Organization of National level workshop for PG students (Mathematical and Physical Sciences)
- Organization of National level Seminar/workshop for teachers and PG students.

Extension activities:

- Participation in Superstition Eradication awareness programs of ANIS, Mumbai.

PERSONAL INFORMATION

Date of Birth : 1st February 1962
 Sex : Male
 Marital Status : Married
 Language Known : English, Hindi and Marathi
 Local Address : 21, Ganeshnagar, Shahada
 Maharashtra, India (425409)

CV Updated upto 01/11/2018