

Curriculum Vitae



1. Name Dr. Sambhaji Shivaji Shinde
2. Present Address Department of Physics,
Shivaji University, Kolhapur
Pin- 416004, India
3. Permanent Address At- Wadgaon, Post- Bibi,
Tal- Phaltan, Dist- Satara,
Pin- 415537, India
4. Date of Birth 03-07-1985
5. Religion/Caste Hindu/Maratha
6. Gender Male
7. Languages Known English, Marathi and Hindi
8. Nationality Indian
9. Specialization Solid State Physics
10. Marital Status Unmarried
11. Passport holder Yes
12. E-mail Address physics.sambhaji2006@gmail.com,
physics_sambhaji2006@yahoo.com
13. Cell No. +91-8805230764
14. Educational Qualification

Name of Examination	Institution	Percentage of Marks	Class Obtained
Ph. D (Physics)	Shivaji University, Kolhapur	Awarded	Awarded
M.Sc. (Physics)	Shivaji University, Kolhapur	70.75	Distinction
B. Sc (Physics)	Shivaji University, Kolhapur	75.86	Distinction
H.S.C	Pune Board	69.33	First Class
S.S.C.	Pune Board	73.46	First Class

15. Career objective: To pursue research oriented career in a Research or Research & Development Laboratory that will utilize my knowledge and expertise in the field of Materials science.

16. Research Experience

1. Successfully completed the project entitled “**Studies on structural, optical and electrical properties of spray deposited indium and fluorine doped zinc oxide**” for partial Fulfillment of M. Sc degree.
2. Successfully completed the project entitled “**Studies on synthesis and characterization large area transparent conductive oxide semiconductor thin films**” funded by Defense Research and Development Organization (DRDO), New Delhi.
3. **Thesis Title:** Photoelectrocatalytic degradation of wastewater using spray deposited zinc oxide thin films

17. Publications

- A. Papers published in National/International Journals - 55
- B. Papers presented in National/International – 38

18) Books published

1. Photocatalysis: An Environmental Approach, Lambert Academic Publishing, Co., Germany
2. Photocatalysis: Ferric Oxide Nanomaterials, Lambert Academic Publishing, Co., Germany

19) Extracurricular activities

1. Member of the International Nanoscience Community
2. Organizing Committee member of National Seminar on Advanced Materials (NSAM-2010), 17-18 March, 2010
3. Organizing Committee member of XXIII Refresher Course in Experimental Physics, 5-20 October, 2010
4. Organizing Committee member of National Seminar on Physics of Materials and Materials Based Device Fabrication (NSPM-MDF-2011), 16-17 February, 2011
5. Organizing Committee member of 1st International Conference on Physics of Materials and Materials Based Device Fabrication (ICPM-MDF-2012), 17-19 January, 2012

20) Awards

1. Dr. B.S. Patil prize standing first in the subject Physics at Bachelor of Science degree
2. Eklavya Maharashtra government Merit Scholarship for Master of Science degree
3. Junior Research Fellowship, Project entitled “Studies on synthesis and characterization of large area transparent conductive oxide thin films” funded by Defense Research and Development Organization (DRDO), Govt. of India
4. Senior Research Fellowship, Project entitled “Studies on synthesis and characterization of large area transparent conductive oxide thin films” funded by Defense Research and Development Organization (DRDO), Govt. of India

21) Top 25 Hottest Articles

1. **S.S. Shinde**, P.S. Shinde, S.M. Pawar, A.V. Moholkar, C.H. Bhosale and K.Y. Rajpure

Physical properties of transparent and conducting sprayed fluorine doped zinc oxide thin films, Solid State Sciences 10 (2008) 1209-1214, selected as a 13th hottest article during October to December 2008

2. A.V. Moholkar, **S.S. Shinde**, A.R. Babar, K.U. Sim, Y. Kwon, K.Y. Rajpure, P.S. Patil, C.H. Bhosale, J.H. Kim

Development of CZTS thin films solar cells by pulsed laser deposition: Influence of pulse repetition rate, Solar Energy, 85 (2011) 1354-1363, selected as a 10th hottest article during April to June 2011

3. **S.S. Shinde**, C.H. Bhosale, K.Y. Rajpure

Photocatalytic activity of sea water using TiO₂ catalyst under solar light, Journal of Photochemistry and Photobiology B: Biology, 103 (2011) 111-117, selected as a 16th hottest article during April to June 2011

4. A.V. Moholkar, **S.S. Shinde**, A.R. Babar, K.U. Sim, Y. Kwon, K.Y. Rajpure, P.S. Patil, C.H. Bhosale, J.H. Kim

Development of CZTS thin films solar cells by pulsed laser deposition: Influence of pulse repetition rate, Solar Energy, 85 (2011) 1354-1363, selected as a 21th hottest article during July to September 2011

5. A.V. Moholkar, **S.S. Shinde**, A.R. Babar, K.U. Sim, H.K. Lee, K.Y. Rajpure, P.S. Patil, C.H. Bhosale, J.H. Kim

Synthesis and characterization of Cu₂ZnSnS₄ thin films grown by PLD: Solar cells, Journal of Alloys and Compounds, 509 (2011) 7439-7446, selected as a 16th hottest article during July to September 2011

6. **S.S. Shinde**, P.S. Shinde, C.H. Bhosale, K.Y. Rajpure

Zinc oxide mediated heterogeneous photocatalytic degradation of organic species under solar radiation, Journal of Photochemistry and Photobiology B: Biology, 104 (2011) 425-433, selected as a 3rd hottest article during July to September 2011

22) Referee for National and International Journals

- Applied surface science
- Indian Journal of Pure and Applied Physics
- Physica B: Condensed Matter
- Physical chemistry A
- Journal of Physics and Chemistry of Solids
- Journal of Alloys and compounds
- Solar Energy
- Solid State Sciences
- Materials chemistry and physics
- Catalysis today
- Journal of Photochemistry and Photobiology: B
- Journal of Luminescence

23. Complete List of Publications

A. Papers published in National/International Journals

1	S.S. Shinde , P.S. Shinde, S.M. Pawar, A.V. Moholkar, C.H. Bhosale and K.Y. Rajpure Physical properties of transparent and conducting sprayed fluorine doped zinc oxide thin films
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	Solid State Sciences 10 (2008) 1209-1214
2	S.S. Shinde , P.S. Shinde, C.H. Bhosale and K.Y. Rajpure Optoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films Journal of Physics D: Applied physics 41(2008)105109
3	S.S. Shinde , P.S. Shinde, C.H. Bhosale and K.Y. Rajpure Reply to comments on Optoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films Journal of Physics D: Applied physics 41(2008) 228002
4	V.S. Sawant, S.S. Shinde , R.J. Deokate, C.H. Bhosale, B.K. Chougule, K.Y. Rajpure Effect of calcining temperature on electrical and dielectric properties of cadmium stannate Applied surface science 255 (2009) 6675-6678
5	R.R. Sawant, S.S. Shinde , C.H. Bhosale, K.Y. Rajpure Influence of substrates on photoelectrochemical performance of sprayed n-CdIn ₂ S ₄ electrodes, Solar energy, 84 (2010) 1208-1215
6	S.S. Shinde , Prakash S. Patil, R.S. Gaikwad, R.S. Mane, B.N. Pawar, K.Y. Rajpure Influences in high quality zinc oxide films and their photoelectrochemical performance Journal of Alloys and Compounds, 503 (2010) 416-421
7	A.R. Babar, S.S. Shinde , A.V. Moholkar, S.M. Pawar, C.H. Bhosale, J.H. Kim, K.Y. Rajpure Structural and optoelectronic properties of antimony incorporated tin oxide thin films Journal of Alloys and Compounds, 505 (2010) 416-422
8	A.R. Babar, S.S. Shinde , A.V. Moholkar, S.M. Pawar, K.Y. Rajpure Electrical and dielectric properties of co-precipitated nanocrystalline tin oxide Journal of Alloys and Compounds, 505 (2010) 743-749
9	S.S. Shinde , R.A. Bansode, C.H. Bhosale, K.Y. Rajpure Physical properties of hematite α -Fe ₂ O ₃ thin films: Application to photoelectrochemical solar cells Journal of semiconductors, 31 (2010) 400-1-8
10	S.S. Shinde , P.S. Shinde, V.G. Sathe, S.R. Barman, C.H. Bhosale, K.Y. Rajpure Electron-phonon interaction and size effect study in catalyst based zinc oxide thin films Journal of Molecular Structure, 984 (2010) 186-193
11	S.S. Shinde , K.Y. Rajpure Investigation of structural, morphological, luminescent and thermal properties of combusted aluminium-based iron oxide Journal of Solid State Chemistry, 183 (2010) 2886-2894
12	V.M. Nikale, S.S. Shinde , A.R. Babar, C.H. Bhosale, K.Y. Rajpure (Photo) electrochemical investigations on spray deposited n-CdIn ₂ Se ₄ thin film/polysulphide/c photoelectrochemical solar cell Applied Solar Energy, 46 (2010) 194-201
13	V.M. Nikale, S.S. Shinde , K.Y. Rajpure, C.H. Bhosale Influence of physical parameters on properties of spray deposited CdTe thin films Journal of Semiconductors, 32 (2011) 033001-7
14	R.R. Sawant, S.S. Shinde , C.H. Bhosale, K.Y. Rajpure Semiconductor-septum solar rechargeable storage cells Journal of Alloys and Compounds, 509 (2011) 1305-1309
15	V.M. Nikale, S.S. Shinde , A.R. Babar, C.H. Bhosale, K.Y. Rajpure Photoelectrochemical performance of sprayed n-CdIn ₂ Se ₄ photoanodes Solar Energy, 85 (2011) 325-333
16	D.B. Mahadik, S.S. Shinde , C.H. Bhosale, K.Y. Rajpure Physical properties of chemical vapour deposited nanostructured carbon thin films Journal of Alloys and Compounds, 509 (2011) 1418-1423
17	V.M. Nikale, S.S. Shinde , K.Y. Rajpure, C.H. Bhosale

	Structural, morphological and electrical properties of spray deposited CdIn ₂ Se ₄ thin films Journal of Alloys and Compounds, 509 (2011) 3116-3121
18	A.R. Babar, S.S. Shinde , A.V. Moholkar, C.H. Bhosale, K.Y. Rajpure Sensing properties of sprayed antimony doped tin oxide thin films: Solution molarity Journal of Alloys and Compounds, 509 (2011) 3108-3115
19	A.R. Babar, S.S. Shinde , A.V. Moholkar, C.H. Bhosale, J.H. Kim, K.Y. Rajpure Physical properties of sprayed antimony doped tin oxide thin films: Role of thickness Journal of semiconductors, 32 (2011)
20	S.S. Shinde , A.V. Moholkar, C.H. Bhosale, J.H. Kim, K.Y. Rajpure Structural, morphological, luminescent and electronic properties of sprayed aluminium incorporated iron oxide thin films Surface and Coatings Technology, 205 (2011) 3567-3577
21	S.S. Shinde , C.H. Bhosale, K.Y. Rajpure Studies on morphological and electrical properties of Al incorporated combusted iron oxide Journal of Alloys and Compounds, 509 (2011) 3943-3951
22	S.S. Shinde , K.Y. Rajpure X-ray photoelectron spectroscopic study of catalyst based zinc oxide thin films Journal of Alloys and Compounds, 509 (2011) 4603-4607
23	S.S. Shinde , Sher Singh Meena, S.M. Yusuf, K.Y. Rajpure Mossbauer, Raman, and Magnetoresistance Study of Aluminum-Based Iron Oxide Thin Films, Journal of Physical Chemistry C, 115 (2011) 3731-3736
24	S.S. Shinde , C.H. Bhosale, K.Y. Rajpure Photocatalytic activity of sea water using TiO ₂ catalyst under solar light Journal of Photochemistry and Photobiology B: Biology, 103 (2011) 111-117
25	V.M. Nikale, S.S. Shinde , A.R. Babar, C.H. Bhosale, K.Y. Rajpure The n-CdIn ₂ Se ₄ /p-CdTe heterojunction solar cells Solar Energy, 85 (2011) 1336-1342
26	A.V. Moholkar, S.S. Shinde , A.R. Babar, Kyu-Ung Sim, Ye-bin Kwon, K.Y. Rajpure, P.S. Patil, C.H. Bhosale, J.H. Kim Development of CZTS thin films solar cells by pulsed laser deposition: Influence of pulse repetition rate Solar Energy, 85 (2011) 1354-1363
27	A.V. Moholkar, S.S. Shinde , A.R. Babar, Kyu-Ung Sim, Hyun Kee Lee, K.Y. Rajpure, P.S. Patil, C.H. Bhosale, J.H. Kim Synthesis and characterization of Cu ₂ ZnSnS ₄ thin films grown by PLD: Solar cells Journal of Alloys and Compounds, 509 (2011) 7439-7446
28	A.R. Babar, S. B. Kumbhar, S.S. Shinde , A.V. Moholkar, J.H. Kim, K.Y. Rajpure Structural, compositional and electrical properties of co-precipitated zinc stannate Journal of Alloys and Compounds, 509 (2011) 7508-7514
29	S.S. Shinde , P.S. Shinde, C.H. Bhosale, K.Y. Rajpure Zinc oxide mediated heterogeneous photocatalytic degradation of organic species under solar radiation Journal of Photochemistry and Photobiology B: Biology, 104 (2011) 425-433
30	S.S. Shinde , K.Y. Rajpure Fast response ultraviolet Ga-doped ZnO based photoconductive detector Materials Research Bulletin, 46 (2011) 1734-1737
31	S.S. Shinde , K.Y. Rajpure High-performance UV detector based on Ga-doped zinc oxide thin films Applied Surface Science, 257 (2011) 9595-9599
32	S.S. Shinde , C.H. Bhosale, K.Y. Rajpure Photocatalytic oxidation of salicylic acid and 4-chlorophenol in aqueous solutions mediated by modified AlFe ₂ O ₃ catalyst under sunlight

	Journal of Molecular Catalysis A: Chemical 347 (2011) 65-72
33	A.R. Babar, S.S. Shinde , A.V. Moholkar, C.H. Bhosale, K.Y. Rajpure Structural and optoelectronic properties of sprayed Sb:SnO ₂ thin films: Substrate temperature, Nozzle to substrate distance Journal of semiconductors 32 (2011) 102001-9
34	R.T. Sapkal, S.S. Shinde , A.R. Babar, C.B. Jalkute, K.Y. Rajpure, K.D. Sonawane, C.H. Bhosale Photoelectrocatalytic purification of fecal, tap and E. Coli contained water using ZnO thin films: A comparative study In press, International Journal of Basic and Applied Research (2011)
35	R.T. Sapkal, S.S. Shinde , M.R. Sapkal, A.R. Babar, D.M. Sapkal, C.B. Jalkute, K.Y. Rajpure, P.S. Patil, K.D. Sonawane, C.H. Bhosale Photoelectrocatalytic Hydrolysis of Starch By Sprayed ZnO Thin Film Materials Science: An Indian Journal, 7 (4) (2011)
36	D.M. Sapkal, V.M. Nikale, S.S. Shinde , C.H. Bhosale, Effect of Substrate Temperature on the Structural Properties of Spray Deposited CdTe Thin Films Materials Science: An Indian Journal, 7 (3) (2011)
37	D.M. Sapkal, V.M. Nikale, S.S. Shinde , C.H. Bhosale, Concentration Dependant Structural and Optical Properties of Spray Deposited CdTe Thin Films Materials Science: An Indian Journal, 7 (3) (2011)
38	R.T. Sapkal, S.S. Shinde , A.R. Babar, K.Y. Rajpure, P.S. Patil, C.H. Bhosale Effect of Substrate Temperature and Concentration of Zinc Acetate on Spray Deposited Zinc Oxide Thin Films Accepted, Materials Science: An Indian Journal
39	R.T. Sapkal, S.S. Shinde , A.R. Babar, K.Y. Rajpure, P.S. Patil, K.D. Sonawane, C.H. Bhosale Structural, morphological, optical and photoluminescence properties of Ag-doped zinc oxide thin films Materials Express, 7 (4) (2011)
40	S.S. Shinde , C.H. Bhosale, K.Y. Rajpure N-doped ZnO based fast response ultraviolet photoconductive detector Solid State Electronics 68 (2012) 22-26
41	S.S. Shinde , K.Y. Rajpure Fabrication and performance of N-doped ZnO UV photoconductive detector Journal of Alloys and Compounds 522 (2012) 118-122
42	R.T. Sapkal, S.S. Shinde , K.Y. Rajpure, P.S. Patil, C.H. Bhosale Photo-corrosion inhibition and photoactivity enhancement with tailored zinc oxide thin films Journal of Photochemistry and Photobiology B: Biology 110 (2012) 15-21
43	R T Sapkal, S.S. Shinde , K Y Rajpure, C.H Bhosale Photoelectrocatalytic decolorization and degradation of textile effluent using ZnO thin films In press, Materials Research Innovations (2012)
44	S.S. Shinde , C.H. Bhosale, K.Y. Rajpure Structural, optical, electrical and thermal properties of zinc oxide thin films by chemical spray pyrolysis Journal of Molecular Structure 1021 (2012) 123-129
45	S.S. Shinde , C.H. Bhosale, K.Y. Rajpure Photocatalytic degradation of toluene using sprayed N-doped ZnO thin films in aqueous suspension Journal of Photochemistry and Photobiology B: Biology 113 (2012) 70-77

46	R T Sapkal, S.S. Shinde , T R Waghmode, S P Govindwar, A V Moholkar, K Y Rajpure, C.H Bhosale Photoelectrocatalytic decolorization and degradation of textile effluent using ZnO thin films In press, Journal of Photochemistry and Photobiology B: Biology (2012)
47	S.S. Shinde , P.S. Shinde, R.T. Sapkal, Y.W. Oh, D. Haranath, C.H. Bhosale, K.Y. Rajpure, Photoelectrocatalytic degradation of oxalic acid by spray deposited nanocrystalline zinc oxide thin films In press, Journal of Alloys and Compounds (2012)
48	S.S. Shinde , P.S. Shinde, Y.W. Oh, D. Haranath, C.H. Bhosale, K.Y. Rajpure Investigation of structural, optical, luminescent and thermal properties of sprayed N-doped zinc oxide thin films In press, Journal of Analytical and Applied Pyrolysis (2012)
49	S.S. Shinde , C.H. Bhosale, K.Y. Rajpure Structural, optoelectronic, luminescence and thermal properties of Ga-doped zinc oxide thin films In press, Applied Surface Science (2012)
50	S.S. Shinde , C.H. Bhosale, K.Y. Rajpure Heterogeneous photocatalysis of organic species in water under zinc oxide catalyst under solar radiation Accepted, Indian Journal of Engineering and Materials Sciences, (2012)
51	R.T. Sapkal, S.S. Shinde , M.R. Sapkal, A.R. Babar, D.M. Sapkal, K.Y. Rajpure, P.S. Patil, C.H. Bhosale Photoelectrocatalytic hydrolysis of starch by sprayed ZnO thin films Accepted, Indian Journal of Engineering and Materials Sciences, (2012)
52	S.S. Shinde , C.H. Bhosale, K.Y. Rajpure Hydroxyl radical's role in the remediation of wastewater: Advanced oxidation process Accepted, Journal of Photochemistry and Photobiology B: Biology (2012)
53	A.V. Moholkar, S.S. Shinde , K.U. Sim, H.G. Lee, K.Y. Rajpure, P.S. Patil, C.H. Bhosale, J.H. Kim Synthesis and characterization of Cu ₂ ZnSnS ₄ thin films grown by PLD: Solar Cells Accepted, Journal of Alloys and Compounds (2012)
54	S.S. Shinde , C.H. Bhosale, K.Y. Rajpure Size dependence of electron-phonon coupling in N, Li, In, Ga, F and Ag doped ZnO thin films Accepted, Spectrochimica Acta (2012)
55	S.S. Shinde , P.S. Shinde, Y.W. Oh, D. Haranath, C.H. Bhosale, K.Y. Rajpure Optoelectronic properties of highly mobilized Li-doped ZnO thin films Accepted, Surface and Coatings Technology (2012)

B) Conference attendance/publications

1	S.S. Shinde attended "International Conference on Advanced Materials and Applications, Shivaji University, Kolhapur, ICAMA-07" During 15 th to 17 th Nov 2007
2	S.S. Shinde , S.M. Pawar, C.H. Bhosale and K.Y. Rajpure Presented paper entitled "Effect of substrate temperature on spray deposited zinc oxide" at National Seminar on New Horizons in Physics-2007,(NSNHP-07) YCIS, Satara, during 21 st and 22 nd Jan. 2007 India
3	S.S. Shinde attended "Workshop on Frontiers in Physics and Chemistry Vision to 21st Century", during 8 th to 10 th Jan. 2007 in the Department of physics, Shivaji University, Kolhapur
4	S.S. Shinde attended "National Seminar on Materials for advanced Technologies, Shivaji University, Kolhapur, NASMAT-06" During 21 st to 22 nd Jan 2006

5	<p>S.S. Shinde, P.S. Shinde, V.S. Sawant, R.J. Deokate, A.R. Babar, P.R. Deshmukh, C.H. Bhosale, K.Y. Rajpure</p> <p>Presented paper entitled “Fluorine influence on photoluminescence and photoresponse in doped zinc oxide thin films” at International conference on nanomaterials and applications -2008, (ICNAMA-08) Department of physics, Shivaji University, Kolhapur, during 9th to 11th December 2008</p>
6	<p>V.S. Sawant, S.S. Shinde, A.P. Torane, P.S. Shinde, R.J. Deokate, C.H. Bhosale, K.Y. Rajpure</p> <p>Presented paper entitled “Transparent conducting oxide thin films of Cd₂SnO₄ prepared by Spray pyrolysis” at International conference on nanomaterials and applications-2008, (ICNAMA-08) Department of physics, Shivaji University, Kolhapur, during 9th to 11th December 2008</p>
7	<p>S.V. Salunkhe, R.J. Deokate, V.S. Sawant, S.S. Shinde, A.R. Babar, C.H. Bhosale, K.Y. Rajpure</p> <p>Presented paper entitled “Effect of Gallium doping on structural, electrical and optical properties of CdO thin films” at International conference on nanomaterials and applications -2008, (ICNAMA-08) Department of physics, Shivaji University, Kolhapur, during 9th to 11th December 2008</p>
8	<p>S.S. Shinde participated in Inter University AVISKAR-2008 research festival, Sant Gadage baba Amravati University, Amravati, during 8-10 Jan. 2009</p>
9	<p>S.S. Shinde, P.S. Shinde, M. Neumann-Spallart, K.Y. Rajpure, C.H. Bhosale, Presented paper entitled “Solar light aided photoelectrocatalytic degradation of Salicylic acid in water using sprayed TiO₂ electrodes” at Commercialization of Renewable Energy technology (CRET-2009), D.Y. Patil University, Kolhapur, during 21st-23rd October 2009</p>
10	<p>A.U. Suryawanshi, S.S. Shinde and C.H. Bhosale, Presented paper entitled “Synthesis and characterization of chemical vapour deposited carbon nano-tubes”, at Commercialization of Renewable Energy technology (CRET-2009), D.Y. Patil University, Kolhapur, during 21st-23rd October 2009</p>
11	<p>A.R. Babar, R.J. Deokate, S.S. Shinde, S.M. Pawar, A.V. Mohalkar, C.H. Bhosale, K.Y. Rajpure, Presented paper entitled “Effect of solution concentration on physicochemical properties of sprayed antimony doped tin oxide thin films”, at Commercialization of Renewable Energy technology (CRET-2009), D.Y. Patil University, Kolhapur, during 21st-23rd October 2009</p>
12	<p>A.U. Suryawanshi, S.S. Shinde and C.H. Bhosale, Presented paper entitled “Physical properties of carbon nano-tubes using chemical vapour deposition technique”, at National conference recent trends in nanoscience and green chemistry, S. S. Margol College of Arts, Science & Commerce, Shahabad -585228, Gulbarga, during 23rd-24th October 2009</p>
13	<p>S.S. Shinde, P.S. Shinde, C.H. Bhosale and K.Y. Rajpure</p> <p>Solar light aided photoelectrocatalytic degradation of 4 Chlorophenol in water using nanocrystalline TiO₂ electrodes, in 54th DAE-SSPS 2009 at M.S. university of Baroda, vadodara, Gujrat during 14th-18th December 2009</p>
14	<p>P.R. Jadhav, S.S. Shinde, C.H. Bhosale and K.Y. Rajpure</p> <p>Photoelectrocatalytic degradation of Methyl orange in water using nanocrystalline TiO₂ electrodes, in ASMFM 2009 at Shivaji university, Kolhapur during 23rd-24th December 2009</p>
15	<p>S.S. Shinde, M.N. Spallart, K.Y. Rajpure, C.H. Bhosale</p> <p>Phototelectrocatalytic degradation of 4 chlorophenol using nanocrystalline TiO₂ electrodes under sunlight</p> <p>International conference on convergence of science & engineering in education and research A global perspective in the new millennium (ICSE-2010), 21st -23rd April, 2010 at Dayananda Sagar college of engineering, Bangalore</p>
16	<p>Degradation of aromatic compounds in water using nanocrystalline oxide semiconductor electrodes</p>

	P.R. Jadhav, S.S. Shinde , C.H. Bhosale, K.Y. Rajpure National Seminar on Advanced materials (NSAM-2010) 19-20 March, 2010. Shivaji University Kolhapur.
17	Influences in high quality zinc oxide films and their photoelectrochemical performance S.S. Shinde , P.R. Jadhav, C.H. Bhosale, K.Y. Rajpure National Seminar on Advanced materials (NSAM-2010) 19-20 March, 2010. Shivaji University Kolhapur.
18	CdIn ₂ S ₄ based semiconductor-septum solar rechargeable storage cells R.R. Sawant, S.S. Shinde , C.H. Bhosale, K.Y. Rajpure National Seminar on Advanced materials (NSAM-2010) 19-20 March, 2010. Shivaji University Kolhapur.
19	Influence of concentration on properties of spray deposited CdIn ₂ Se ₄ thin films V. M. Nikale, S.S. Shinde , K.Y. Rajpure, C. H. Bhosale National Seminar on Advanced materials (NSAM-2010) 19-20 March, 2010, Shivaji University Kolhapur.
20	Photoelectrochemical degradation of selected aromatic molecules M. Neumann-Spallart, S.S. Shinde , K.Y. Rajpure, C.H. Bhosale 6 th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA6), during June 13 th to 16 th , 2010, Prague, Czech Republic.
21	Photoelectrocatalytic activity of spray deposited ZnO thin film against <i>E.coli</i> Davis R.T. Sapkal, S.S. Shinde , A.R. Babar, D.M. Sapkal, K.Y. Rajpure, P.S. Patil, C.H. Bhosale International Symposium on Materials Education (ISME – 2011), March 26 – 28, 2011, C-MET, Pune
22	Effect of calcining temperature on structural, electrical and dielectric properties of zinc lead oxide S.I. Inamdar, S. B. Desai, A. R. Babar, S.S. Shinde , C. H. Bhosale, K.Y. Rajpure National Symposium on Advances in Synthetic Methodologies and new Materials 21-22th Jan, 2011, Department of Chemistry, Shivaji University, Kolhapur
23	Structural and magnetic properties of Ni _{0.8} Co _{0.2} Fe _{2-x} Dy _x O ₄ (x=0 to 0.1) spinel ferrites synthesized by ceramic method T.S. Bhat, A. G. Salunkhe, A. R. Babar, S.S. Shinde , C. H. Bhosale, K.Y. Rajpure National Symposium on Advances in Synthetic Methodologies and new Materials 21-22th Jan, 2011, Department of Chemistry, Shivaji University, Kolhapur
24	Effect of substrate temperature and nozzle to substrate distance on Structural and optoelectronic properties of spray deposited Sb:SnO ₂ thin films A.R. Babar, S.S. Shinde , A.V. Moholkar, C.H. Bhosale, K.Y. Rajpure National Symposium on Advances in Synthetic Methodologies and new Materials 21-22th Jan, 2011, Department of Chemistry, Shivaji University, Kolhapur
25	Growth of highly crystallized transparent conductive antimony-doped tin oxide thin films: effect of intermittent time A.R. Babar, S.S. Shinde , A.V. Moholkar, C.H. Bhosale, K.Y. Rajpure National Seminar on Physics of Materials and Materials based Device Fabrication 17-18th Feb, 2011, Department of Physics, Shivaji University, Kolhapur
26	Synthesis and characterization of BaTi _{1-x} Sn _x O ₃ (x=0 to 0.15) ferroelectric by ceramic method A.G. Salunkhe, T.S. Bhat, A. R. Babar, S.S. Shinde , C. H. Bhosale, K.Y. Rajpure National Seminar on Physics of Materials and Materials based Device Fabrication 17-18th Feb, 2011, Department of Physics, Shivaji University, Kolhapur
27	Structural, dielectric properties and complex impedance spectroscopy studies of zinc lead oxide S.B. Desai, S. I. Inamdar, A. R. Babar, S.S. Shinde , C. H. Bhosale, K.Y. Rajpure National Seminar on Physics of Materials and Materials based Device Fabrication 17-18 th

	Feb, 2011, Department of Physics, Shivaji University, Kolhapur
28	Physical properties of spinel ferrite prepared by ceramic and combustion method S.P. Yadav, S.S. Shinde , P.S. Patil, K.Y. Rajpure National Seminar on Physics of Materials and Materials based Device Fabrication (NSPM-MDF-2011), 17-18 February, 2011, Shivaji University, Kolhapur
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