Please visit my personal website www.rajpure.com

Curriculum Vitae

1. Name: Prof. (Dr). K.Y. Rajpure
Date of Birth: 24/07/1971

Mailing Address: Senior Professor,
Department of Physics,
(Ex. Head Physics, Ex. Head USIC, CFC
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2. Academic details:

Sr. No.	Degree	Board/ University	Year	Subjects	% Of marks
1	S.E.T.	UGC/ Pune University	2002	Physical Sciences	Qualified
2	Ph.D.	Shivaji University	2000	Physics	Awarded
3	M.Sc.	Shivaji University	1994	Solid State Physics	65.85#
4	B.Sc.	Shivaji University	1992	Physics	88.5#
5	H.S.C.	Pune Divisional Board	1989	Physics, Chemistry, Maths, Electronics	81.15
6	S.S.C.	Pune Divisional Board	1987	Languages, Science, Maths, Social Science	79.85

3. **Research Specialization:** Thin Films, Solar Cells, Transparent conductive oxides, Photoelectrochemistry, Photo-electrocatalysis of water, Gas sensors, Multiferroics, Memristor, Water splitting, Supercapacitor.

4. **Teaching Experience to P.G.: 27**

Sr. No.	**Post**	**Tenure**	**Duties**
1.	Assistant Professor (Shivaji University)	04/08/1999 to 20/08/2014	Teaching & Research
2.	Professor (Shivaji University)	21/08/2014 to 26/09/2024	Teaching & Research
3.	Senior Professor (Shivaji University)	27/09/2024 to till date	Teaching & Research
	Subjects Taught and is being teaching: Classical Mechanics, Statistical Mechanics, Electrodynamics and plasma Physics, Atomic and Molecular Physics, Preparation & Properties of Thin Films, Physical properties of solids		

5. **Research Guidance:**

Work supervised to M.Sc. project students**: 85**

M. Phil and Ph. D. Students Degree Awarded

Sr. No.	Name of Candidate	Year of award	Title of Thesis
1.	Dr. R. J. Deokate	2010	Studies on synthesis and characterization of spray deposited $CdIn_2O_4$ thin films for gas sensors
2.	Dr. R. C. Kamble	2011	Studies on development of magnetoelectric composite materials for sensor applications
3.	Dr. V. S. Sawant (M. Phil)	2009	Studies on synthesis and characterization of spray deposited Cd_2SnO_4 thin films
4.	Dr. S. S. Shinde	2012	Photoelectrocatalytic degradation of wastewater using spray deposited zinc oxide thin films
5.	Dr. A. R. Babar	2012	Studies on synthesis and characterization of spray deposited Sb: SnO_2 thin films
6.	Dr. S. K. Patil	2014	Studies on synthesis and characterization of Co and Ni doped zinc oxide thin films
7.	Dr. V. V. Ganbavle	2015	Studies on synthesis and characterization of sprayed tungesten oxide thin films for gas sensor application
8.	Dr. S. I. Inamdar	2015	Studies on spray deposited ZnO thin films for ultraviolet photodetectors
9.	Dr. S. P. Yadav	2017	Synthesis and characterization of (Co-Mn) ferrite and lead zirconate titanate (PZT) magneto-electric composites
10.	Dr. A. A. Kadam	2017	Preparation of multiferroic magnetoelectric composite materials and their characterization
11.	Dr. V. S. Sawant	2017	Synthesis and characterization of cobalt substituted lithium ferrite for gas sensor application
12.	Dr. A. A. Bagade	2017	Synthesis and characterization of sprayed cobalt ferrite thin films for gas sensor application
13.	Dr. S. V. Mohite	2017	Studies on photoelectrocatalytic oxidation of organic pollutants using spray deposited WO_3 based thin films
14.	Dr. S. K. Shaikh (M. Phil)	2018	Chemically synthesized ZnO thin films for ultraviolet radiation detector
15.	Dr. S. D. Patil	2018	Studies on electrical magnetic and magnetoelectric properties of matglas+($BaTiO_3/K_{0.5}Na_{0.5}NbO_3$) composites
16.	Dr. R. D. Suryavanshi	2018	Photoelectrocatalytic degradation of organic compounds using spray deposited Fe_2O_3/ZnO thin films

17.	Dr. S. B. Madake	2021	Synthesis and characterization of spray deposited $Cu_xNi_yZn_{1-x-y}Fe_2O_4$ thin films for gas sensing application
18.	Dr. N. A. Narewadikar	2023	Photoelectrocatalytic activity of doped TiO_2 for degradation of organic compounds
19.	Dr. S. M. Kumbhar	2023	Studies on the chemically deposited TiO_2 thin films and their characterization for UV photodetector and gas sensor applications
20.	Dr. R. S. Pedanekar	2023	Photoelectrocatalytic degradation of organic compounds using spray deposited Bi_2WO_6 thin films
21.	Dr. A. R. Patil	2023	Studies on memristive properties of iron tungstate thin films deposited by hydrothermal and spray pyrolysis technique
22.	Dr. S. R. Jadhav	2025	Studies on ZnO based composites for photocatalysis

Working

Sr. No.	Name	Date of Registration	Title of synopsis
1.	Mr. K. B. Erande	2021	Synthesis and characterization of spray deposited CeO_2, $SrTiO_3$, CeO_2 / $SrTiO_3$ thin films for Photoelectrocatalytic application
2.	Mr. L. D. Namade	2021	Studies on memristive properties of spray deposited $BaTiO_3$ and $SrTiO_3$ thin films
3.	Mr. P. K. Pawar	2024	Studies on chemically synthesized transition metal (Co,Mn,Mg) phosphate for water splitting application
4.	Mr. T. R. Bodake	2024	Studies on W & Sn doped vanadium oxide nanostructures for gas sensing application
5.	Miss. A. A. Yadav	2024	Studies on hydrothermally synthesized mixed metal phosphate for supercapacitor application
6.	Miss. G. G. Chinde	2024	Photocatalytic degradation of organic compounds using iron vanadate, cerium vanadate and their composites
7.	Mr. S. T. Khade	2024	Enhanced photocatalytic degradation of organic compounds using doped bismuth vanadate

6. **Journal Publications: 232**
   Total citations: 10,749 (Scopus)
   h-index: 63 (Scopus)

   Total citations: 13280 (Google Scholar)
   h- index: 68 (Google Scholar)
   i-10 index: 196 (Google Scholar)

7. **Research Project Work:**

Title of Project / Scheme	**Funding Agency**	**Funds received**	**Date of starting**	**Date of ending**	**Status**
Studies on synthesis and characterization of large area transparent conductive oxide thin films No.: ERIP/ ER/ 0503504/ M/ 01/ 1007	Defence Research and Development Organization (**DRDO**)	**14.96 Lakhs**	1 April 2008	31 March 2011	Completed
Development of cadmium sulphide / polyaniline heterojunction-based room temperature LPG sensor. No.: SR/S2/CMP-82/2006	Department of Science and Technology (**DST**)	**16.70 Lakhs**	11 Feb. 2008	10 Feb. 2011	Completed
Photocatalytic degradation of waste water using sprayed tungsten trioxide (WO_3) thin films No. 41-869/2012 (SR)	University Grants Commission **(UGC)**	**13.01 Lakhs**	1 July 2012	30 June 2015	Completed
Development of magnetoelectric multiferroic composite ceramics for electric power generation by cost effective chemical methods No. 03(1284)/13/EMR-II	Council of Scientific and Industrial Research **(CSIR)**	**19.62 Lakhs**	9 May 2013	8 May 2016	Completed
Photocatalytic Purification of Wastewater Using Fe_2O_3/TiO_2 Nano-composite Thin Films	Department of Science and Technology (**DST**)	**21.67 Lakhs**	1 May 2014	30 April 2017	Completed

8. **Membership:**

- Member of Shivaji University Students' Council - 1992
- Life member: Marathi Vidnyan Parishad Kolhapur region
- Life member, Materials Research Society of India (MRSI)
- Life member, Semiconductor Society of India (SSI)
- Life member, Indian Physics Association (IPA)
- Life member, Indian Association of Physics Teachers (IAPT)
- Life member, The Indian Science Congress Association (ISCA)

I] Member of board of studies:

- Member, BOS Physics, Shivaji University, Kolhapur
- Member, BOS Physics, Vivekanand College, Kolhapur
- Member, BOS Physics, DKTE Institute, Ichalkaranji
- Member, BOS Physics, Karnataka University, Dharwad
- Member, BOS Physics, T.C college, Baramati
- Member, BOS Physics, Walchand College of Engineering, Sangli
- Member, BOS Physics, K.B.P College, Pandharpur
- Member, BOS Physics, JSPM Institute, Pune

II] Member of research committees:

- Secretary, DST-FIST project, Shivaji University, Kolhapur, 2006–2008
- Member, Research and Recognition committee, Savitribai Phule Pune university, Pune since 2018
- Coordinator, MPhil/ PhD, Shivaji University, Kolhapur 2018,
- Referee, PhD viva at various universities.

III] Member of university committees:

- Member, University Technical committee, since 2017
- Member, Purchase committee, since 2017
- Member, Faculty selection committee member, since 2017
- Member, Local Inquiry Committee (affiliation), since 2017
- Member, Write-off committee, since 2017
- Chairman, PhD. Open defence, since 2014
- Member, API evaluation committee, since 2017
- Member, Planning committee, since 2018
- Member, Technical committee RUSA project, since 2017
- Member, Admission committee, since 2015
- Member, Eye evaluation committee, since 2016
- Member, Policy deciding committee for equipment valuation 2017
- Member, Administrative audit committee, 2017
- Member, Organizing committees of conferences
- Member, Solar power generation (Development and installation) committee

IV] Member of university IQAC committees:

- NAAC SSR committee Shivaji University, 2013
- NAAC Research Extension Activity committee, 2018

V] Member of departmental committees:

- Staff Secretary, Since 2000

- Guardian Teacher, M.Sc. – I, Since 2003
- Departmental Placement Officer, Since 2005
- Lab-in-charge, M.Sc.-II, Since 2009
- In-charge, XRD and LCR facility of PIFC
- In-charge Teacher, SEM and surface profiler Facility: 2006–2007
- Member secretary- Curriculum reforms (Physics) under AF
- Member secretary- Committee for preparation of Departmental Profile
- Convener, Alumni meet: 2008, 2014
- Convener, NSAM-2010
- Convener, Parents meet, 2013
- Secretary: COURT– 2006

VI] Member of selection committees:

- VC nominee, Principal selection committee
- VC nominee, Assi. Professor selection committee

9. Honours/ Awards:

- Government Open Merit Scholarship at B. Sc. degree during 1989-1991.
- Dr. Jagdish S. Shirke Prize by Shivaji University, Kolhapur, for having stood first in the subject of Physics (Principal) at the B. Sc. Exam. held in April 1992.
- Shriman Ganpati Ramseth Warange Prize by Shivaji University, Kolhapur, for having stood first at the B.Sc. Exam. held in April 1992.
- Government Open Merit Scholarship at M. Sc. degree during 1992-1994.
- Smt. Gangubai Dattatraya Kulkarni (Jambhekar), Ichakaranji Prize by Shivaji University, Kolhapur for having stood first in Physics at the M. Sc. Exam held in May 1994.
- Qualified STATE ELIGIBILITY TEST (SET), MAHARASHTRA (Eligibility Test for Lectureship) in Feb., 2002 in the subject of Physical Sciences conducted by University of Pune, as the State Agency accredited by UGC.
- Secretary of the Staff, Department of Physics, Shivaji University, Kolhapur.
- International recognition: One diffraction pattern included as new materials by ICDD in their powder diffraction files.
- Elected as a Fellow of Maharashtra Academy of Sciences for the significant contribution in the field of Physical Sciences in the year 2015.
- Listed in top 2% World Scientist list (Plos Biology 2020, 2021,2022)

10. Fellowships:

- Project Fellow (UGC) – 17/10/1994 to 02/06/1996
- JRF (DST Project) – 03/06/1996 to 31/05/1998
- SRF (DST Project) – 01/06/1998 to 31/05/1999

11. Patents Filed (Indian)

Sr. No	Title of Patent	Patent number	Date
1	Photoelectrocatalytic behavior of Fe_2O_3, $AlFe_2O_3$ and $AlFe_2O_3/TiO_2$ nanoflakes	2181/MUM/2012	30-07-2012
2	Nanostructures of N/ZnO for photoelectrocatalysis of water impurities	2485/MUM/2012	27-08-2012
3	UV Photodetector (UK design patent)	6515084	21-04-2026

12. Review articles published

- **Kinetic analysis of heterogenous photocatalysis: Role of Hydroxyl Radicals,** Catalysis Reviews: Science and Engineering, 55 (2013) 1–51
- **Thin film photocatalysis for environmental remediation: A status review,** Current Applied Physics 20 (2020) 931–952
- **Binary Metal Oxide-based Resistive Switching Memory Devices: A Status Review,** Materials Today Communications, 34, (2023) 105356
- **Metal tungstates for resistive memory application: A mini review**, Current Applied Physics, 71, (2025), 70-79
- **Morphology-driven photocatalytic performance in chemically deposited thin films: A comprehensive review,** Applied Materials Today, 48, (2026),10301

13. Books Published

- **Photocatalysis: Ferric Oxide Nanomaterials,**
  Lambert Academic Publishing,
  ISBN No. 978-3-659-16967-0, 2012, S. S. Shinde, C. H. Bhosale, K. Y. Rajpure
- **Photocatalysis: An Environmental Approach,**
  Lambert Academic Publishing,
  ISBN No. 978-3-8484-9651-8, 2012, S. S. Shinde, C. H. Bhosale, K. Y. Rajpure
- **Antimony Doped Tin Oxide (ATO): Transparent Conductor,**
  Lambert Academic Publishing,
  ISBN- 978-3-659-38375-5, 2013, A.R. Babar, K. Y. Rajpure
- **Transparent coatings (Transparent thin film coatings of various metal oxides),**
  ISBN No. 978-3-659-46350-1, S.S. Shinde, V.G. Parale, C.H. Bhosale, K.Y. Rajpure
- **Metal oxide thin films Gas sensor: Spray deposited Cadmium indium oxide thin film for LPG gas sensing**
  Scholars' Press (February 25, 2014) Publisher ISBN-10: 3639708687, ISBN-13: 978-3639708684, Ramesh Deokate, K. Y. Rajpure, C. D. Lokhande

- **Photocatalytic Decontamination of Air (Degradation of Air Pollutants, CO_2 Reduction) Olympick Publisher India. ISBN-978-81-986001-7-2** Sonali Jadhav, Santosh Mohite, Keshav Rajpure

14. Invited Talks: **National:20**
International: 03
Webinar:10

15. Books Edited

Proceeding of conferences and Seminars: **6**

Title of Conference	**Organising Institute**	**Date**
International Conference of Advanced Materials and Applications (ICAMA-2007)	Shivaji University Kolhapur	15-17 Nov. 2007
National Seminar on Advanced Materials (NSAM-2010)	Shivaji University Kolhapur	19-20 Mar. 2010
National Seminar on Physics of Materials and Materials Based Device Fabrication (NSPMMDF-2011)	Shivaji University Kolhapur	17-18 Feb. 2011
1st International Conference on Physics of Materials and Materials Based Device Fabrication (ICPMMDF-2012)	Shivaji University Kolhapur	17-19 Jan. 2012
National seminar on physics of material and material-based device fabrication (NSPMMDF-2013)	Shivaji University Kolhapur	3-4 Jan. 2013
2nd International Conference on Physics of Materials and Materials Based Device Fabrication (ICPMMDF-2014)	Shivaji University Kolhapur	13-15 Jan. 2014
National Conference on Physics of Materials and Materials-based Device Fabrication 2023 (NCPM-MDF-2023)	Shivaji University Kolhapur	25-26 Nov. 2023
International Conference on Physics of Material and Materials-based Device Fabrication (ICPM-MDF-2025)	Shivaji University Kolhapur	10-12 Dec 2025

16. Books Chapters

Contributed **six** book chapters in **three** books.

- **Applications of Nano Materials: Electronics, Energy and Environment, Bloomsbury Publishing India Pvt. Ltd., 2012, ISBN 978-93-82563-35-8**
- The Influence of Mn Substitution on the Structural, Electrical and Magnetic Properties of $CoFe_2O_4$ Ferrite, S.P. Yadav, S.S. Shinde, A.A. Kadam, **K.Y. Rajpure**, 323
- Optoelectronic Properties of Spray Deposited Ni-Doped Zinc Oxide Thin Films, S.K. Patil, S.S. Shinde, **K.Y. Rajpure,** 371,
- Effect of Dy Doping on Structural, Electrical and Magnetic Properties of Ni-Co Substitutional Spinel Ferrites, A.A. Kadam, **K.Y. Rajpure,** 156
- Physico-Chemical, Electrical and Dielectric Properties of the Spray Deposited WO_3 Films for Gas Sensor Application, V.V. Ganbavle, V.S. Sawant, **K.Y. Rajpure,** 306

- **Advanced Nano Materials for Industrial Applications, Bloomsbury Publishing India Pvt. Ltd., 2012, ISBN: 978-93-82563-34-1**
  - S.S. Kumbhar, M.A. Mahadik, V.S. Mohite, S.S. Shinde, V.L. Mathe, **K.Y. Rajpure**, C.H. Bhosale
- Synthesis and Characterization of Ni-Zn Ferrite Thin Films Prepared by Spray Pyrolysis Technique, 49 S.I. Inamdar**, K.Y. Rajpure**
- Studies on the Synthesis and Characterization of Co-precipitated Nanocrystalline Zn-Pb-O Bulk System, 249

- **Nano Materials Synthesis and Characterisation,** Bloomsbury Publishing India Pvt. Ltd., 2012, **ISBN: 978-93-82563-36-5**

17. In charge of various equipment's

- In charge of **X-ray Diffraction facility** at PIFC Department of Physics, Shivaji University Kolhapur
- In charge of **LCR meter** at PIFC Department of Physics, Shivaji University Kolhapur
- In charge of **Spectroscopic Ellipsometer** at PIFC Department of Physics, Shivaji University, Kolhapur

18. Referee of international journals

- Journal of Alloys and Compounds
- Sensors and Actuators-B
- Materials Science and Engineering-B
- Materials Letters
- Journal of Physical Chemistry-C
- Materials Research Bulletin
- Indian journal of Pure and Applied Physics
- Applied Surface Science
- Solar Energy Materials
- Materials Chemistry and Physics

19. Conference publications: 193 (list attached)

20. Conference Organised

• **Convener** of the **"National Seminar on Advanced Materials"** organized by Department of Physics, Shivaji University Kolhapur on 19-20 Mar. 2010

• **Secretary** of "**International Conference on Advanced Materials and Applications**" (ICAMA-2007), Organised by Department of Physics, Shivaji University, Kolhapur.

21. Academic & Research Administration

Extension work
• Resource person
• Counsellor to graduate and post-graduate students
• Life member: Marathi Vidnyan Parishad Kolhapur region
• Staff secretary
• Placement officer
• In charge of M.Sc. Part I laboratory
• Guardian teacher of M.Sc. part I
• M.Sc. Admission committee member
• Departmental Ph.D. Scrutiny committee member
• Organized departmental cricket matches as sport activity
• Member of various Departmental organizing committees
• Coordinator of Parents meet (1 Oct. 2013)

Cocurricular Extra curricular
• Examiner of Shivaji, SRTM, Goa, Solapur and SGBA University
• Placement Officer, Guardian Teacher
• Secretary- DST-FIST,
• Secretary- Curriculum reforms & Profile development
• Organising committee Member of conferences
• Referee to reputed journals

22. Research achievements

• New technique for optimization of preparative parameters
• Estimation of semiconductor parameters
• Efficient TCOs having factor of merit ~ 10^{-2} □/Ω
• The cheaper ZnO photocatalysts for photocatalysis
• Fast response ZnO UV photoconductive detector
• High sensitivity LPG gas sensor based on metal oxides
• Efficient memristor thin film based on metal oxides

23. Facility/ Resource generated

• StallarNet Inc., USA make **Spectroscopic Reflectometer** worth Rs. **9,43,006/-**
• Marine India Ltd., New Delhi make **PE Loop Tracer** worth Rs. **6,00,000/-**
• Labindia make UV-Vis spectrophotometer
• Elico mini-spectrometer
• COD digester
• Photochemical reactor setup worth Rs**. 2,50,000/-**

- Instrumental in developing analytical facilities at PIFC and CFC

List of publications:

Sr. No.	Publications Total research papers: 232, Citations: 13,141, h-index: 68, i-10 index: 194
1.	A comparative study of concentration effect of complexing agent on the properties of spray deposited Sb_2S_3 thin films and precipitated powders K.Y. Rajpure, C.D. Lokhande, C.H. Bhosale. Materials Chemistry and Physics, 51 (3) (1997) 252-257. https://doi.org/10.1016/S0254-0584(97)80314-8
2.	Effect of the substrate temperature on the properties of spray deposited Sb-Se thin films from non-aqueous medium K.Y. Rajpure, C.D. Lokhande, C.H. Bhosale. Thin Solid Films, 311 (1-2) (1997) 114-118. https://doi.org/10.1016/S0040-6090(97)00415-X
3.	Effect of relative amount of complexing agents on the properties of Sb_2S_3 precipitated powders K. Y. Rajpure, A.L. Dhebe, C.D. Lokhande, C.H. Bhosale. Materials Chemistry and Physics, 56 (2) (1998) 177-183. https://dx.doi.org/10.1016/S0254-0584(98)00175-8
4.	Photoelectrochemical studies on electrodeposited Cd-Fe-Se thin films K.Y. Rajpure, P.A. Anarase, C.D. Lokhande, C.H. Bhosale. Physica Status Solidi (A) Applied Research, 172 (2) (1999)415-423. https://dx.doi.org/10.1002/(SICI)1521-396X(199904)172:2%3C415::AID-PSSA415%3E3.0.CO;2-X
5.	A comparative study of the properties of spray-deposited Sb_2Se_3 thin films prepared from aqueous and nonaqueous media K.Y. Rajpure, C.D. Lokhande, C.H. Bhosale. Materials Research Bulletin, 34 (7) (1999) 1079-1087. https://dx.doi.org/10.1016/S0025-5408(99)00095-1
6.	Structural, optical and (photo)electrochemical properties of electrodeposited Cd-Zn-Se thin films K.Y. Rajpure, S.M. Bamane, C.D. Lokhande, C.H. Bhosale. Indian Journal of Pure and Applied Physics, 37 (5) (1999)413-420. http://op.niscair.res.in/index.php/IJPAP/index
7.	Transient photoconductivity measurements of spray deposited Sb_2S_3 and Bi_2S_3 thin films from non-aqueous medium V.V. Killedar, K.Y. Rajpure, P.S. Patil, C.H. Bhosale. Materials Chemistry and Physics, 59 (3) (1999) 237-241. https://dx.doi.org/10.1016/S0254-0584(99)00044-9

8.	Photoelectrochemical investigation on spray deposited n-$CdIn_2S_4$ thin films K.Y. Rajpure, V.L. Mathe, C.H. Bhosale. Bulletin of Materials Science, 22 (5) (1999) 927-931. https://dx.doi.org/10.1007/BF02745555
9.	Preparation and characterization of electrodeposited Sb_2Se_3 thin films A. P. Torane, K.Y. Rajpure, C.H. Bhosale. Materials Chemistry and Physics, 61 (3) (1999) 219-222. https://doi.org/10.1016/S0254-0584(99)00160-1
10.	Effect of Se source on properties of spray deposited Sb_2Se_3 thin films K.Y. Rajpure, C.H. Bhosale. Materials Chemistry and Physics, 62 (2) (2000) 169-174. https://doi.org/10.1016/S0254-0584(99)00173-X
11.	(Photo)electrochemical investigations on spray deposited n-Sb_2S_3 thin film/polyiodide/C photoelectrochemical solar cells K.Y. Rajpure, C.H. Bhosale. Materials Chemistry and Physics, 63 (3) (2000) 263-269. https://doi.org/10.1016/S0254-0584(99)00233-3
12.	Effect of composition on the structural, optical and electrical properties of sprayed Sb_2S_3 thin films prepared from non-aqueous medium K.Y. Rajpure, C.H. Bhosale. Journal of Physics and Chemistry of Solids, 61 (4) (2000) 561-568. https://doi.org/10.1016/S0022-3697(99)00240-1
13.	Sb_2S_3 semiconductor-septum rechargeable storage cell K.Y. Rajpure, C.H. Bhosale. Materials Chemistry and Physics, 64 (1) (2000) 70-74. https://doi.org/10.1016/S0254-0584(99)00240-0
14.	A Study of substrate variation effects on the properties of n-Sb_2S_3 thin film/polyiodide/C photoelectrochemical solar cells K.Y. Rajpure, C.H. Bhosale. Materials Chemistry and Physics, 64 (1) (2000) 14-19. https://doi.org/10.1016/S0254-0584(99)00239-4
15.	Properties of photoelectrochemical cell formed with sprayed $CdIn_2S_4$ thin films K.Y. Rajpure, V.L. Mathe, C.H. Bhosale. Transactions of the SAEST (Society for Advancement of Electrochemical Science and Technology), 35 (2) (2000) 64-68. https://www.ias.ac.in/article/fulltext/boms/022/05/0927-0931
16.	Effect of Sb doping on properties of conductive spray deposited SnO_2 thin films K.Y. Rajpure, M.N. Kusumade, M.N. Neumann-Spallart, C.H. Bhosale. Materials Chemistry and Physics, 64 (3) (2000) 184-188. https://doi.org/10.1016/S0254-0584(99)00256-4

17.	Preparation and characterization of spray deposited photoactive Sb_2S_3 and Sb_2Se_3 thin films using aqueous and non-aqueous media K.Y. Rajpure, C.H. Bhosale. Materials Chemistry and Physics, 73 (1) (2002) 6-12. https://doi.org/10.1016/S0254-0584(01)00350-9
18.	Structural and optical properties of spray-deposited $CdIn_2Se_4$ thin films V.M. Nikale, N.S. Gaikwad, K.Y. Rajpure, C.H. Bhosale. Materials Chemistry and Physics, 78 (2) (2003) 363-366. https://doi.org/10.1016/S0254-0584(02)00089-5
19.	Structural, optical and electrical properties of chemically sprayed CdO thin films C.H. Bhosale, A.V. Kambale, A.V. Kokate, K.Y. Rajpure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 122 (1) (2005) 67-71. https://doi.org/10.1016/j.mseb.2005.04.015
20.	Electrosynthesis and characterization of CdSe thin films: Optimization of preparative parameters by photoelectrochemical technique S.M. Pawar, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale. Journal of Physics and Chemistry of Solids, 67 (11) (2006) 2386-2391. https://dx.doi.org/10.1016/j.jpcs.2006.06.015
21.	Electrosynthesis and characterization of iron selenide thin films S.M. Pawar, A.V. Moholkar, U.B. Suryavanshi, K.Y. Rajpure, C.H. Bhosale. Solar Energy Materials and Solar Cells, 91 (7) (2007)560-565. https://doi.org/10.1016/j.solmat.2006.11.004
22.	Determination of $CdIn_2S_4$ semiconductor parameters by (photo)electrochemical technique R.R. Sawant, K.Y. Rajpure, C.H. Bhosale. Physica B: Condensed Matter, 393 (1-2) (2007) 249-254. https://doi.org/10.1016/j.physb.2007.01.009
23.	Effect of solvent ratio on the properties of highly oriented sprayed fluorine-doped tin oxide thin films A.V. Moholkar, S.M. Pawar, K.Y. Rajpure, C.H. Bhosale. Materials Letters, 61 (14-15) (2007) 3030-3036. https://doi.org/10.1016/j.matlet.2006.10.077
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List of papers presented at conferences, workshops, seminars and symposia

Sr. No.	Publications
1.	Preparation and characterization of monolithic silica Aerogels A.V. Rao, P.B. Wagh, D. Haranath, K.Y. Rajpure

2.	Sol - Gel processing and characterization of Silica gels and glasses A.V. Rao, D. Haranath, P.B. Wagh, K.Y. Rajpure
	Paper no. 1-2 was presented at National Conference on Developments in Electronic Materials and Their Applications (NCDEMA), 6-8 Mar. 1995, Shivaji University, Kolhapur
3.	Synthesis and physical properties of organic acid (Citric acid) catalyzed TEOS silica Aerogels P.B. Wagh , D. Haranath , A.V. Rao, K.Y. Rajpure
	Three one day seminars on new materials, 5,6,18 Mar. 1996, Shivaji University, Kolhapur
4.	Effect of concentration of complexing agent on the properties of spray deposited Sb_2S_3 thin films K.Y. Rajpure, C.H. Bhosale
5.	Effect of concentration of complexing agent on the properties of precipitated Sb_2S_3 powders K.Y. Rajpure, C.H. Bhosale
6.	Preparation & characterization of spray deposited CoS thin films K.Y. Rajpure, A.S. Sapkal, C.H. Bhosale
	Paper no. 4-6 were presented at 7th National Convention / Conference of Electrochemists 18th-20th Nov. 1996, Shivaji University, Kolhapur
7.	Solution concentration dependent properties of spray deposited Sb-Se thin films from non-aqueous medium K.Y. Rajpure, C.H. Bhosale
	Symposium on current Status on Solar Energy Materials and Systems, 24th-25th Feb. 1997 Anna University, Chennai (India)
8.	Solution concentration dependent properties of spray deposited Sb_2S_3 thin films K.Y. Rajpure, C.H. Bhosale
	9th International Workshop on Physics of Semiconductor Devices (IWPSD-97) State Physics Laboratory, Lakhanow Road, Delhi
9.	Preparation and characterization of $Sb_2(S_xSe_{1-x})_3$ pellets R. A. Vanjari, K.Y. Rajpure, C.H. Bhosale
10.	Substrate temperature dependent properties of spray deposited Sb_2Se_3 thin films U. L. Shinde, K.Y. Rajpure, C.H. Bhosale
11.	(Photo)electrochemical Characterisation of Sprayed Bi_2S_3 thin films prepared from non-aqueous media V.V. Killedar, K.Y. Rajpure, C.D. Lokhande C.H. Bhosale
	Paper no. 9-11 was presented at Seminar cum Workshop on Materials and Characterization, 13th-17th July 1998 CECRI, Karaikudi, T.N. (India)

12.	Preparation and characterization of photoactive spray deposited Sb_2S_3 and Sb_2Se_3 thin films prepared from aqueous and non-aqueous media K.Y. Rajpure, C.D. Lokhande, C.H. Bhosale
	The 12th International Conference on Photochemical Conversion and Storage of Solar Energy (IPS-12), 9th-14th Aug. 1998 Hahn - Meitner Institute, Department of Physical Chemistry, Glienicker Str. 100, 14109 Berlin, Germany
13.	Properties of phoelectrochemical cells formed with sprayed $CdIn_2S_4$ thin films K.Y. Rajpure, V.L. Mathe, C.D. Lokhande, C.H. Bhosale
14.	Substrate temperature dependent properties of sprayed $CdIn_2S_4$ thin films A.M. Patil, K.Y. Rajpure, C.D. Lokhande, C.H. Bhosale
15.	Effect of Sb doping on properties of spray deposited SnO_2 thin films K. Y. Rajpure, M. N. Kusumade, S. S. Kumbhar, C. D. Lokhande, C. H. Bhosale
	Paper no.13-15 were presented at National Seminar on Recent Trends in Solid State Sciences (NSRTSS-98), 23rd-24th Nov. 1998 Sri Venkateswara University, Tirupati (A.P.)
16.	Optical properties of $CdIn_2S_4$ thin films and their use in photoelectrochemical cells K. Y. Rajpure, V. L. Mathe, C. D. Lokhande, C. H. Bhosale
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17.	Effect of Al doping on properties of spray deposited SnO_2 thin films K.Y. Rajpure, S.S. Kumbhar, M.N. Kusumade, C.D. Lokhande P.S. Patil, C. H. Bhosale
18.	Structural and optical properties of electrodeposited In_2Te_3 thin films R.P. Pawar, K.Y. Rajpure, C. H. Bhosale
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	Paper no.17-21 were presented at DAE- BRNS Symposium on Electro and Magnetoceramics, 18th-20th Feb. 1999 Shivaji University, Kolhapur

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	10th International Workshop on the Physics of Semiconductor Devices, 14th-18th Dec.1999 Solid State Physics Laboratory, New Delhi
23.	Properties of spray deposited SnS_2 thin films A.M. Patil, K.Y. Rajpure, C.H. Bhosale
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	Paper no.27-28 were presented at National Seminar on Materials for Advanced Technologies Department of Physics, Shivaji University, Kolhapur, 23rd-25thJanuary, 2006
29.	Photoelectrochemical study of spray deposited $ZnIn_2Se_4$ thin films S.P. Yadav, P.S. Shinde, K.Y. Rajpure, C.H.Bhosale
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	18th Annual General Meeting and Theme: Materials for Energy Generation, Conservations and Storage Materials Research Society of India, NPL, Delhi (India)
34.	Effect of Fe dopant on the properties of CdSe thin films form aqueous medium S.M. Pawar, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale
35.	Effect of solution quantity on properties of sprayed ITO thin films A.V. Moholkar, S.M. Pawar, K.Y. Rajpure, C.H. Bhosale
36.	Effect of calcination on the properties of $ZnIn_2Se_4$ thin films S.P. Yadav, P.S. Shinde, K.Y. Rajpure, C.H. Bhosale
37.	Effect of water to methanol solvent ratio on properties of spray deposited CdO thin films C.A. Pawar, P.S. Shinde, K.Y. Rajpure, C.H. Bhosale
38.	Structural, optical, and electrical properties of chemically sprayed $CdIn_2O_4$ thin films R.J. Deokate, C.H. Bhosale, K.Y. Rajpure
39.	Comparative study of (photo) electrochemical properties of spray deposited n-$CdIn_2S_4$ thin films on different substrate R.R. Sawant, P.S. Shinde, K.Y. Rajpure, C.H. Bhosale
40.	Studies on spray deposited Cd_2SnO_4 thin films V.S. Sawant, R.J. Deokate, C.H. Bhosale, K.Y. Rajpure
	Paper no.34-40 were presented at International Conference on Advanced materials and Application (ICAMA-2007), 15th -17th NOV. 2007. Department of Physics, Shivaji University, Kolhapur

41.	Liquefied petroleum gas (LPG) sensing characteristic of spray deposited $CdIn_2O_4$ thin films. R.J. Deokate, C.H. Bhosale, K.Y. Rajpure
	Recent Advances in Sensor and Instrumentation, 15th-16th Oct. 2007 Shankarrao Mohite Mahavidyalaya, Akluj
42.	Structural, optical, and electrical properties of chemically sprayed $CdIn_2O_4$ thin films R.J. Deokate, C.H. Bhosale, K.Y. Rajpure
	International Conference on Advanced Materials and Applications, 15-17 Nov., 2007 Department of Physics, Shivaji University, Kolhapur
43.	Preparation of $CdIn_2O_4$ thin films by Spray pyrolysis technique R.J. Deokate, C.H. Bhosale, K.Y. Rajpure
	DAE Solid State Physics symposium, 27th-31st Dec., 2007 University of Mysore, Mysore
44.	A novel hydrocarbon gas sensor based on sprayed cadmium indate thin films R.R. Sawant, K.Y. Rajpure, C.H. Bhosale
	National seminar in Chemistry Department of chemistry, Shivaji University, Kolhapur
45.	Physicochemical and optical properties of highly textured spray deposited Ga doped ZnO thin films A.R. Babar, C.H. Bhosale, K.Y. Rajpure
	Pre-conference school on Science and Applications of Luminescent Materials (SALM-2008) NPL, New Delhi
46.	Effect of composition on the properties of $Cd_xZn_{1-x}O$ films on glass substrates R.J. Deokate, C.H. Bhosale, K.Y. Rajpure
	National Conference on Advanced Materials and Characterization (NCAMC 2008) VIT University, Vellore
47.	Physical properties of chemically sprayed transparent conductive $CdIn_2O_4$ thin films R.J. Deokate, C.H. Bhosale, K.Y. Rajpure
	2nd International Symposium on Transparent Conducting Oxides, 22nd-26th Oct. 2008, Conference Greece
48.	Transparent conducting oxide thin films of Cd_2SnO_4 prepared by spray pyrolysis V.S. Sawant, A.P. Torane, S.S. Shinde, P.S. Shinde, R.J. Deokate, C.H. Bhosale, K.Y. Rajpure

49.	Effect of gallium doping on structural, electrical and optical properties of CdO thin films S.V. Salunkhe, R.J. Deokate, V.S. Sawant, A.R. Babar, C.H. Bhosale, K.Y. Rajpure
50.	Effect of annealing temperature on structural and electrical properties of SnO_2 A.R. Babar, R.J. Deokate, K.Y. Rajpure
51.	Fluorine influence on photoluminescence in doped zinc oxide thin films S.S. Shinde, P.S. Shinde, V. S. Sawant, R.R. Sawant, C.A. Pawar, R.J. Deokate, A.R. Babar, P.R. Deshmukh, C.H. Bhosale, K.Y. Rajpure
52.	Synthesis and characterization of nanocrystalline $Co_{0.7}Mn_{0.3}Fe_2O_4$ ferrite prepared by glycine-nitrate combustion method R.C. Kambale, S.S. Kamble, K.Y. Rajpure, Y.D. Kolekar
53.	Studies of the optical and electrical properties of the $Cd_{1+3}xIn_{2-2}xO_4$ thin film by spray techniques R.J. Deokate, C.H. Bhosale, K.Y. Rajpure
54.	Synthesis and characterization of nanocrystalline spray deposited CdO thin films C.A. Pawar, P.S. Shinde, V.V. Killedar, S.P. Yadav, K.Y. Rajpure, C.H. Bhosale
55.	Properties of nanocrystalline F:SnO_2 thin films A.V. Moholkar, P.S. Shinde, S.M. Pawar, K.Y. Rajpure, P.S. Patil, C.H. Bhosale
56.	PVA assisted chemical synthesis of cauliflower network of cadmium sulphide thin films at ambient temperature D.S. Dhawale, R.R. Salunkhe, A.M. More, S.B. Kulkarni, K.Y. Rajpure, V.J. Fulari, C.D. Lokhande
	Paper no.48-56 were presented at International conference on nanomaterials and applications (ICNAMA-08), 9th-11th Dec 2008 Department of physics, Shivaji University, Kolhapur
57.	Solar light aided photoelectrocatalytic degradation of salicylic acid in water using sprayed TiO_2 electrodes S.S. Shinde, C.H. Bhosale, K.Y. Rajpure
	Commercialization of Renewable Energy technology (CRET-2009), 21st-23rd Nov. 2009 D.Y. Patil University, Kolhapur
58.	Solar light aided photoelectrocatalytic degradation of 4 Chlorophenol in water using nanocrystalline TiO_2 electrodes S.S. Shinde, C.H. Bhosale, K.Y. Rajpure
	54th DAE-SSPS 2009, 14th-18th Dec. 2009 M.S. university of Baroda, Vadodara, Gujrat

59.	Synthesis of nanocrystalline Cadmium indate for gas sensor application R.R. Sawant, S.S. Shinde, K.Y. Rajpure, C.H. Bhosale.
	International Workshop on Nanotechnology and Advanced Functional Materials, 10th June 2009 National Chemical Laboratory, Pune
60.	Effect of solution concentration on physicochemical properties of sprayed antimony doped tin oxide A.R. Babar, C.H. Bhosale, K.Y. Rajpure
	Commercialization of Renewable Energy technology (CRET-2009), 21st-23rd Oct. 2009 D.Y. Patil University, Kolhapur
61.	Studies on magnetic properties of $Co_{1-x}MnxFe_2O_4$ spinel ferrites synthesized by combustion route R.C. Kambale, C.H. Bhosale, K.Y. Rajpure
	International conference on Sol-Gel process for Advanced Ceramics (SGPAC-2009), 11th-14th Oct. 2009 Convention centre Kalpakkam, Chennai. India
62.	Effect of antimony doping on properties of spray deposited tin oxide films A.R. Babar, C.H. Bhosale, K.Y. Rajpure
	International Conference on Nano Science and Nano Technology (GJ- NST 2009), 5th-6th Nov. 2009 Muan, Korea
63.	Photoelectrocatalytic degradation of Methyl orange in water using nanocrystalline TiO_2 electrodes S.S. Shinde, C.H. Bhosale, K.Y. Rajpure
	ASMFM 2009, 23rd-24th Dec. 2009 Shivaji university, Kolhapur
64.	Studies on structural and dielectric behavior of CMFO ferrite and BZT ferroelectric magnetoelectric composites R.C. Kambale, C.H. Bhosale, K.Y. Rajpure
	International conference on Electroceramics (ICE-2009), 13th-17th Dec. 2009 University of Delhi (India)
65.	Effect of quantity of spraying solution on the properties of sprayed antimony doped tin oxide thin films A.R. Babar, C.H. Bhosale, K.Y. Rajpure
	International Conference on Advances in Electron Microscopy & Related Techniques 8th-10th March, 2010 BARC, Mumbai

66.	Studies on structural and dielectric properties of Zn_2SnO_4 synthesized by co-precipitation method A.R. Babar, C.H. Bhosale, K.Y. Rajpure
	Advance Ceramic Materials Monoliths to Composites, 9th-11th Feb. 2010 Sardar Patel University, Vallabh Vidyanagar, Gujrat
67.	Thickness dependence properties of sprayed antimony doped tin oxide thin films A.R. Babar, A.V. Moholkar, C. H. Bhosale, K.Y. Rajpure
68.	Physical properties of sprayed zinc stannate thin films A.T. Valkunde, S.B. Kumbhar, A.R. Babar, C.H. Bhosale, K.Y. Rajpure
69.	Studies on structural and dielectric properties of Zn_2SnO_4 synthesized by co-precipitation method S.B. Kumbhar, A.T. Valkunde, A.R. Babar, C.H. Bhosale, K.Y. Rajpure
70.	Degradation of aromatic compounds in water using nanocrystalline oxide semiconductor electrodes P.R. Jadhav, S.S. Shinde, C.H. Bhosale, K.Y. Rajpure
71.	Influences in high quality zinc oxide films and their photoelectrochemical performance S.S. Shinde, P.R. Jadhav, C.H. Bhosale, K.Y. Rajpure
72.	$CdIn_2S_4$ based semiconductor-septum solar rechargeable storage cells R.R. Sawant, S.S. Shinde, C.H. Bhosale, K.Y. Rajpure
73.	Influence of concentration on properties of spray deposited $CdIn_2Se_4$ thin films V.M. Nikale, S.S. Shinde, C.H. Bhosale, K.Y. Rajpure
74.	Studies on magnetic, dielectric and magnetoelectric behavior of (x)$NiFe_{1.9}Mn_{0.1}O_4$ and (1-x) $BaZr?_{0.08}.Ti_{0.92}O_3$ magnetoelectric composites R.C. Kambale, P.A. Shaikh, R.S. Gafari, K.Y. Rajpure
75.	Method of preparing ZnO nanorods by chemical spray pyrolysis R.T. Sapkal, M.R. Sapkal, K.Y. Rajpure, C.H. Bhosale
76.	To study dielectric behaviour $Ba_{(1-x)}SrxTiO_3$ ferroelectric synthesized by coprecipitation method R.S. Gafari, K.Y. Rajpure
	Paper no.67-76 were presented at National Seminar on Advanced Materials (NSAM-2010) , 19th-20th, Mar. 2010 Shivaji University Kolhapur
77.	Photoelectrocatalytic degradation of 4 chlorophenol using nanocrystalline TiO_2 electrodes under sunlight S.S. Shinde, A.R. Babar, C.H. Bhosale, K.Y. Rajpure

	International conference on convergence of science & engineering in education and research A global perspective in the new millennium (ICSE-2010), 21st-23rd April, 2010 Dayananda Sagar college of engineering, Bangalore
78.	Effect of calcining temperature on structural, electrical and dielectric properties of zinc stannate S.S. Shinde, A.R. Babar, C.H. Bhosale, K.Y. Rajpure
	International Workshop and Symposium on the Synthesis and Characterization of Glass/Glass-ceramics (IWSSCGGC-2010),7th-10th July 2010 Centre for Materials for Electronic Technology (C-MET), Pune
79.	Photoelectrochemical degradation of selected aromatic molecules M.Neumann-Spallart, S.S. Shinde, K.Y. Rajpure, C.H. Bhosale
	6th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA6) 13th-16th June 2010 Prague, Czech Republic.
80.	Electrochemical study of aluminium based iron oxide by combustion route S.S. Shinde, C.H. Bhosale, K.Y. Rajpure
	National Conference on Recent Advances in Materials Science & Engineering : A Multidisciplinary Approach [RAMSE 2010], 23rd-24th Oct. 2010 Jaypee university of engineering & technology, raghogarh, dist: guna (m.p.)
81.	Photoelectrocatalytic degradation of toluene in water using solar light S. S. Shinde, C. H. Rajpure, K. Y. Rajpure
	55th DAE Solid State Physics Symposium (DAE-SSPS 2010), 26th-30th Dec. 2010 Manipal university Manipal, Madhav Nagar, Manipal
82.	Photoelectrocatalytic activity of spray deposited ZnO thin film against E.coli Davis R.T. Sapkal, S.S. Shinde, M.A. Mahadik, K.Y. Rajpure, C.H. Bhosale
	International Symposium on Materials Education (ISME 2011), 26th-28th March, 2011 C-MET, Pune
83.	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
84.	Structural and magnetic properties of $Ni_{0.8}Co_{0.2}fe_{2-x}Dy_xO_4$ (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
85.	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
86.	Photoelectrocatalytic hydrolysis of starch by sprayed ZnO thin films R.T. Sapkal, S.S. Sapkal, M.R. Sapkal, A.R. Babar, D.M. Sapkal, K.Y. Rajpure, P.S. Patil, C.H. Bhosale
	Paper no.83-86 were presented at UGC-SAP National Symposium on Advances in Synthetic Methodologies and new Materials, (ASMNM-2011), 21st-22nd Jan. 2011 Department of Chemistry, Shivaji University, Kolhapur
87.	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
88.	Synthesis and characterization of $BaTi_{1-x}Sn_xO_3$(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
89.	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
90.	To study the dielectric behaviour of $Ba_{1-x}Sr_xTiO_3$ ferroelectric R.S. Gafari, K.Y. Rajpure
91.	Physical properties of spinel ferrite prepared by ceramic and combustion method S.P. Yadav, S.S. Shinde, P.S. Patil, K.Y. Rajpure
92.	Photocatalytic degradation of organic species in aqueous suspension S.S. Shinde, P.S. Shinde, C.H. Bhosale, K.Y. Rajpure
93.	Optoelectronic properties of tin doped zinc oxide thin films A.P. Korade, S.S. Shinde, K.Y. Rajpure
94.	Photoelectrocatalytic activity of spray deposited ZnO thin film against E.coli Davis R.T. Sapkal, K.Y. Rajpure, S.S. Shinde, M.R. Sapkal, A.R. Babar, D.M. Sapkal, P.S. Patil, K.D. Sonawane, C.H. Bhosale
95.	Influence of Concentration on properties of Spray deposited CdTe thin films D.M. Sapkal, V.M. Nikale, S.S. Shinde, K.Y. Rajpure, C.H. Bhosale
96.	Magnetic-field-induced electric polarization in ferrite/ferroelectric particulate multiferroic composites R.C. Kambale, K.Y. Rajpure

97.	Synthesis and characterization of Co-Ni-Mn ferrite system P. K. Chougule, R.C. Kambale, Y.D. Kolekar, K.Y. Rajpure, C.H. Bhosale
	Paper no.87-97 were presented at National seminar on physics of material and material based device fabrication (NSPMMDF-2011),17th-18th Feb 2011
98.	Heterogeneous photocatalysis of organic species in water under zinc oxide catalyst under solar radiation S.S. Shinde, C.H. Bhosale, K.Y. Rajpure
99.	Structural, electrical and magnetic properties of spinel ferrite synthesized by combustion route S.P. Yadav, S.S. Shinde, K.Y. Rajpure
100.	Synthesis and characterization of nanocrystalline Fe_2O_3 oxide semiconductor thin films M.A. Mahadik, V. Mohite, S.S. Shinde, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale
101.	Photoelectrocatalytic hydrolysis of starch by sprayed ZnO thin films R.T. Sapkal, S.S. Shinde, M. R. Sapkal, A.R. Babar, D.M. Sapkal, K.Y. Rajpure, P.S. Patil, C.H. Bhosale
102.	Effect of intermittent time on optoelectronic properties of antimony-doped tin oxide (ATO) thin films A.R. Babar, A.V. Moholkar, C.H. Bhosale, K.Y. Rajpure
	Paper no.98-102 were presented at National Conference on Recent Trends in Materials Science (RTMS 2011, 8th -10th Oct. 2011 Jaypee University of Information Technology, Himachal Pradesh
103.	Photoelectrocatalytic degradation of organic impurities in water under sun light using zinc oxide semiconductor thin films S.S. Shinde, N.S. Gaikwad, R.R. Sawant, C.H. Bhosale, K.Y. Rajpure
104.	Optoelectronic properties of spray deposited Ni-doped zinc oxide thin films S.K. Patil, S.S. Shinde, K.Y. Rajpure
105.	Structural, electrical and magnetic properties of Mn substituted Co-ferrite S.P. Yadav. S.S. Shinde, A.A. Kadam, P.S. Patil, K.Y. Rajpure
106.	Structural, morphological, optical and photoluminescence properties of Ag-doped zinc oxide thin films R.T. Sapkal, S.S. Shinde, A.R. Babar, K.Y. Rajpure, C.H. Bhosale
107.	Physical properties of sprayed TiO_2 thin films V.S. Mohite, S.S. Shinde, R.T. Sapkal, K.Y. Rajpure, C.H. Bhosale
108.	Synthesis and characterization of nanocrystalline Fe_2O_3 oxide semiconductor thin films M.A. Mahadik, S.S. Shinde, K.Y. Rajpure, H.M. Pathan, C.H. Bhosale

109.	Synthesis of nanocrystalline Dy^{3+} doped nickel cobalt ferrite: Structural and electrical properties A.A. Kadam, S.S. Shinde, S.P. Yadav, P.S. Patil, K.Y. Rajpure
110.	Studies on compositional dependent CZTS thin films solar cells by pulsed laser deposition technique: An attempt to improve the efficiency A.V. Moholkar, G.L. Agawane, S.S. Shinde, M.P. Suryawanshi, S.M. Bhosale, S.P. Desai, L.D. Naiknaware, K.Y. Rajpure, P.S. Patil, C.H. Bhosale, J.H. Kim
111.	Magneto-electric coupled properties of (0.25) $Co_{1.2-x}Mn_yFe_{1.8}O4$, and (0.75) Ba $Zr_{0.08}Ti_{0.92}O_3$ particulate ME composite R.C. Kambale, K.Y. Rajpure, C.H. Bhosale
	Paper no.103-111 were presented at 1st International Conference on Physics of Materials and Materials based Device Fabrication (ICPMMDF-2012), 17th-19th Jan. 2012 Department of Physics, Shivaji University, Kolhapur
112.	The influence of Mn substitution on the structural, electrical and magnetic properties of $CoFe_2O_4$ ferrite S.P. Yadav. S.S. Shinde, A.A. Kadam, K.Y. Rajpure
113.	Physico-chemical, electrical and dielectric properties of the spray deposited WO_3 films for gas sensor application V.V. Ganbavle, V.S. Sawant, K.Y. Rajpure
114.	Studies on the synthesis and characterization of co-precipitated nanocrystalline Zn-Pb-O bulk system S.I. Inamdar, K.Y. Rajpure
115.	Effect of Dy doping on structural, electrical and magnetic properties of Ni-Co substitutional spinel ferrites A.A. Kadam, K.Y. Rajpure
116.	Optoelectronic properties of spray deposited Ni-doped zinc oxide thin films S.K. Patil, K.Y. Rajpure
117.	Synthesis and characterization of Ni-Zn Ferrite thin films prepared by spray pyrolysis technique S.S. Kumbhar, M.A. Mahadik, V.S. Mohite, S.S. Shinde, V.L. Mathe, K.Y. Rajpure, C.H. Bhosale
	Paper no.112-117 were presented at 6th International symposium on macro and supramolecular architectures and materials (MAM-12), 21st-25th Nov. 2012 K.S. Rangasamy College of Technology, Coimbatore, Tamil Nadu
118.	UV photoconductive detector on spray deposited ZnO thin films S.I. Inamdar, K.Y. Rajpure
119.	Synthesis and characterization of $Co_{1-x}Mn_xFe_2O_4$ ferrite by ceramic method S.P. Yadav, S.S. Shinde, A.A. Kadam, K.Y. Rajpure

120.	Physical properties of sprayed Co doped zinc oxide thin films S.K. Patil, S.S. Shinde, K.Y. Rajpure
121.	Studies on physical properties of Dy doped NiCo substitutional spinel ferrite A.A. Kadam, S.S. Shinde, S.P. Yadav, P.S. Patil, K.Y. Rajpure
122.	Synthesis and characterization of cobalt ferrite thin films by spray pyrolysis technique A.A. Bagade, K.Y. Rajpure
123.	Studies on synthesis and characterization of sprayed Mg doped CdTe thin films S.V. Mohite, K.Y. Rajpure
124.	Growth and characterization of spray deposited zinc stannate Zn_2SnO_4 thin film S.P. Yadav, S.B. Kale, V.A. Pawar, K.Y. Rajpure
	Paper no.118-124 were presented at National Conference on recent trends in nanotechnology, (NCRTNT-2012) 14th-15th Dec. 2012 Vivekananda college, Kolhapur
125.	Dielectric properties of undoped and Al-doped ZnO powder prepared by a chemical co-precipitation technique V.S. Sawant, K.Y. Rajpure
126.	Structural, optical and electrical properties of WO_3 thin films V.V. Ganbavle, K.Y. Rajpure
127.	Optoelectronic properties of spray deposited Ni-doped Zinc oxide thin films S.K. Patil, V.V. Ganbavle, K.Y. Rajpure
128.	Synthesis and characterization of $CoFe_2O_4$ thin films A.A. Bagade, K.Y. Rajpure
129.	Synthesis and characterization of CdTe thin films S.V. Mohite, K.Y. Rajpure
	Paper no.125-129 were presented at National seminar on physics of material and material based device fabrication (NSPMMDF-2013), 3rd-4th Jan. 2013 Shivaji University, Kolhapur
130.	Synthesis and characterization of zinc ferrite thin films prepared by spray pyrolysis technique S.S. Kumbhar, M.A. Mahadik, V.S. Mohite, K.Y. Rajpure, C.H. Bhosale
131.	Preparation and characterization of sprayed Al doped ZnO thin films Y.M. Hunge, M.A. Mahadik, S.S. Kumbhar, V.S. Mohite, K.Y. Rajpure, A.V. Moholkar, C. H. Bhosale
132.	Preparation of nanocrystalline $CoFe_2O_4$ thin films by chemical spray pyrolysis technique A.A. Bagade, K.Y. Rajpure

133.	Effect of solution concentration on performance of ZnO based visible-blind UV photodetector S.I. Inamdar, K.Y. Rajpure
134.	Structural, morphological and photoluminescence properties of sprayed antimony-doped ZnO thin films S.V. Mohite, K.Y. Rajpure
135.	NO_2, and SO_2 sensing properties of sprayed WO_3 films V.V. Ganbavle, S.K. Patil, K.Y. Rajpure
136.	Enhanced photoelectrochemical performance of sprayed Ti-doped iron oxide thin M.A. Mahadik, V.S. Mohite, S.S. Kumbhar, Y.M. Hunge, H.M. Pathan, K.Y. Rajpure, A.V. Moholkar, C.H. Bhosale
137.	Spray deposited WO_3 thin films for gas sensors A.M. Mukadam, S.V. Mohite, R.K. Nimat, K.Y. Rajpure
138.	Studies on, dielectric and magnetoelectric behavior of (x) $Co_{0.8}Mn_{0.2}Fe_2O_4$ and (1−x) $PbZr_{0.52}Ti_{0.48}O_3$ magnetoelectric composites S.P. Yadav, K.Y. Rajpure
139.	Structural, optical, electrical and thermal properties of TiO_2 thin films by spray pyrolysis technique V.S. Mohite, M.A. Mahadik, S.S. Kumbhar, K.Y. Rajpure, A.V. Moholkar, C.H. Bhosale
140.	Magnetic, structural, electrical, and dielectric properties of cobalt substituted lithium ferrite by auto combustion method V.S. Sawant, K.Y. Rajpure
141.	Synthesis and characterization of sprayed CdSe thin films: Effect of substrate temperature S.D. Dhas, A.A. Deshpande, V.S. Bandichode, R.S. Sutar, P.M. Raste, K. Y. Rajpure, A. V. Moholkar, C. H. Bhosale
	Paper no.130-141 were presented at 2nd International conference on Physics of material and material based device fabrication (ICPMMDF-2014), 13th-15th Jan, 2014 Shivaji University, Kolhapur
142.	Physical properties of spray deposited CdS thin films: PEC performance S.V. Mohite, R.R. Sawant, and K.Y. Rajpure
143.	Substrate temperature dependant properties of Cobalt Ferrite thin films by spray pyrolysis technique A.A. Bagade, K.Y. Rajpure
144.	UV photoconductive detector based on spray deposited ZnO thin films S.I. Inamdar, K.Y. Rajpure

145.	Structural, morphological and gas sensing properties of spray deposited Co:ZnO films V.V. Ganbavle, K.Y. Rajpure
	Paper No. 142 to 145 were presented at an International Conference on Advanced and Applied Material Science (ICAAMS-2014) held at Gopal Krishna Gokhale College, 15th-16th, Jan. 2014 Kolhapur-416012, (MS) India during.
146.	Physical properties of spery deposited $COFe_2O_4$ thin films A.A. Bagade, K.Y. Rajpure
147.	Chemically synthesized ZnO thin films for visible blind ultraviolet photodetector S.I. Inamdar, S.K. Shaikh, K.Y. Rajpure
148.	Structural, morphological and gas sensing properties for spray deposited Ni:ZnO films V.V. Ganbavle, S.V. Mohite, K.Y. Rajpure
	Paper No. 146-148 were presented at an International Conference on Innovation in Energy, Polymer and Environmental Sciences (IEPES-2014), 10th-11th Jan. 2014, Yashwantrao Chavan Institute of Science
149.	Enhanced photoelectrochemical performance of sprayed Ti-doped iron oxide thin films M.A. Mahadik, V.S. Mohite, S.S. Kumbhar, Y.M. Hunge, H.M. Pathan, K.Y. Rajpure, A.V. Moholkar, C.H. Bhosale
150.	Preparation and characterization of sprayed Al doped ZnO thin films Y.M. Hunge, M.A. Mahadik, S.S. Kumbhar, V.S. Mohite, K.Y. Rajpure, A.V. Moholkar, C.H. Bhosale
151.	Structural, optical, electrical and thermal properties of TiO_2 thin films by spray pyrolysis technique V.S. Mohite, M.A. Mahadik, S.S. Kumbhar, K.Y. Rajpure, A.V. Moholkar, C.H. Bhosale
152.	Preparation of nanocrystalline $CoFe_2O_4$ thin films by chemical spray pyrolysis technique A.A. Bagade, K.Y. Rajpure
153.	Effect of solution concentration on performance of ZnO based visible-blind UV photodetector S.I. Inamdar, K.Y. Rajpure
154.	NO_2, and SO_2 sensing properties of sprayed WO_3 films V.V. Ganbavle, S.K. Patil, K.Y. Rajpure
155.	Studies on, dielectric and magnetoelectric behavior of $(x)Co_{0.8}Mn_{0.2}Fe_2O_4$ and $(1-x)\ PbZr_{0.52}Ti_{0.48}O_3$ magnetoelectric composites

	S.P. Yadav, K.Y. Rajpure
156.	Synthesis and characterization of zinc ferrite thin films prepared by spray pyrolysis tequnique S.S. Kumbhar, M.A. Mahadik, V.S. Mohite, K.Y. Rajpure, C.H. Bhosale
157.	Structural, morphological and photoluminescence properties of sprayed antimony-doped ZnO thin films S.V. Mohite, K.Y. Rajpure
158.	Spray deposited WO_3 thin films for gas sensors A.M. Mukadam, S.V. Mohite, R.K. Nimat, K.Y. Rajpure
159.	Magnetic, structural, electrical, and dielectric properties of cobalt substituted lithium ferrite by auto combustion method V.S. Sawant, K.Y. Rajpure
160.	Synthesis and characterization of sprayed CdSe thin films: Effect of substrate temperature S.D. Dhas, A.A. Deshpande, V.S. Bandichode, R.S. Sutar, P.M. Raste, K.Y. Rajpure, A.V. Moholkar, C.H. Bhosale
	Paper no.146-160 were presented at 2nd International Conference on Physics of Materials and Materials based Device Fabrication (ICPMMDF-2014), 13th-15th Jan. 2014 Department of Physics, Shivaji University, Kolhapur
161.	Electrical properties and magnetoelectric effect in (x) $Co_{0.8}Mn_{0.2}Fe_2O_4$+ (1-x) PZT ME composites S.P. Yadav, K.Y. Rajpure
162.	Effect of Ni content on the structural, morphological and magnetic properties of spray deposited Ni-Zn ferrite thin films S.S. Kumbhar, M.A. Mahadik, V.S. Mohite, Y. M. Hunge, K.Y. Rajpure, A.V. Moholkar, C.H. Bhosale
163.	NO_2 gas sensing performance of nanocrystalline $CoFe_2O_4$ thin films by spray pyrolysis technique A.A. Bagade, K.Y. Rajpure
164.	Effect of Ni content on the structural, morphological and magnetic properties of spray deposited Ni-Zn ferrite thin films S.S. Kumbhar, M.A. Mahadik, V.S. Mohite, Y.M. Hunge, K.Y. Rajpure, A.V. Moholkar, C.H. Bhosale
165.	Zno based UV photodetector using chemical bath deposition method S.K. Shaikh, S.I. Inamdar, K.Y. Rajpure
166.	Highly sensitive ultraviolet photodetector based on ZnO nanorods by chemical bath deposition method S.I. Inamdar, S.K. Shaikh, K.Y. Rajpure

167.	SILAR deposited ZnO thin film based UV phtodetector S.K. Shaikh, S.I. Inamdar, K.Y. Rajpure
168.	Fast response, highly selective NO_2 sensor: Effect of Ni doping V.V. Ganbavle, K.Y. Rajpure
169.	Photoelectrocatalytic degradation of benzoic acid using Au doped TiO_2 thin films V.S. Mohite, M.A. Mahadik, S.S. Kumbhar, Y.M. Hunge, J.H. Kim, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale
170.	Photoelectrocatalytic degradation of salicylic acid using sprayed WO_3 photoelectrode S.V. Mohite, K.Y. Rajpure
171.	Photocatalytic activity of sprayed au doped ferric oxide thin films for degradation of E-Coli Davi M.A. Mahadik, V.S. Mohite, Y.M. Hunge, R.T. Sapkal, S.S. Kumbhar, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale
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172.	Photoelectrocatalytic activity of spray deposited Fe_2O_3/ZnO photoelectrode for degradation of salicylic acid and methyl orange dye under solar illumination R.D. Suryavanshi, S. V. Mohite, A.A. Bagade, K.Y. Rajpure
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173.	Nanocrystaline ZnO photoelectrode for degradation of salicylic acid and methyl orange dye R.D. Suryavanshi, S. V. Mohite, A. A. Bagade, K.Y. Rajpure
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174.	Fabrication of multifunctional porous TiO_2 for sensitive carbon dioxide sensor and ultraviolet detector S.M. kumbhar, K.Y. Rajpure
175.	Sprayed deposited Bi_2WO_6 thin films for photocatalytic application R.S. Pedanekar, A.D. Dhok, K.Y. Rajpure
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176.	Deposition of porous zinc ferrite thin films by spray pyrolysis technique S.B. Madake, K.Y. Rajpure

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177.	Chemiresistive SO_2 gas sensing properties of porous zinc ferrite thin films deposited by spray pyrolysis technique S,B. Madake, K.Y. Rajpure
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178.	Fabrication of multifunctional porous TiO_2 for sensitive carbon dioxide sensor and ultraviolet detector S. M. kumbhar, K. Y. Rajpure
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180.	Photoelectrocatalytic degradation of organic compounds by using spray deposited Bi_2WO_6 thin films R.S. Pedanekar, K.Y. Rajpure
	International econference on sustainable development in chemistry & scientific applications (SDCSA- 2021) Department of Physics, Sadguru Gadage Maharaj College, Karad
181.	Spray deposited Bi_2WO_6 thin films for photoelectrocatalytic wastewater treatment under solar radiation R.S. Pedanekar, K.Y. Rajpure
	Two days online international conference on advances in science and technology (ICAST-2022), 9th-10th March 2022 Department of Physics, Rajarshi Chhatrapati Shahu College, Kolhapur
182.	Operating voltage-based mem-capacitive behavior of spay deposited barium titanate thin film L.D. Namade, K.Y. Rajpure
	Two days international conference on Smart Materials for Sustainable Development, Energy and Environmental Applications (SMSDEEA-2023), 20th-21st March 2023 Karmveeer Bhaurao Patil Mahavidyalaya, Pandharpur
183.	Spray deposited iron tungstate thin film memristive device for non-volatile memory application A.R. Patil, K.Y. Rajpure
	International Conference on Frontier Areas of Science and Technology, (ICFAST-2022) 9-10th September 2022, University of Hyderabad
184.	Memristive properties of Sprayed $FeWO_4$ thin films for non-volatile memory A.R. Patil, K.Y. Rajpure
	International Conference on Emerging Trends in Material Science 9th-10th November, 2022, D. P. Bhosale College, Koregaon, District Satara

185.	Memristive properties of chemically synthesized iron tungstate thin film memristive device for non-volatile memory A.R. Patil, K.Y. Rajpure
	Emerging Trends in Fabrication of Nanomaterials and Their Applications (NCETFNA-2023) 29th April, 2023, Prof. Dr. N. D. Patil Mahavidyalaya, Malkapur
186.	Solar assisted photoelectrocatalytic degradation of organic compounds by spray deposited Bi_2WO_6 electrode R.S. Pedanekar, K.Y. Rajpure
187.	Memcapacitive behaviour of spray deposited barium titanate thin film L. D. Namade, K. Y. Rajpure
188.	Hydrothermally synthesized iron tungstate thin film memristive device for non-volatile memory A.R. Patil, K.Y. Rajpure
189.	Efficient photocatalytic activity of CeO_2 for degradation of Rhodamine B by powder catalysis method K.B. Erande, R.S pednekar, A.R. Patil. S.V. Mohite, S.R. Jadhav. U.M. Nerle, K.Y. Rajpure
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190.	Synthesis and structural characterizations of spayed cobalt tungstate thin films S.V. Patil, A.R. Patil, K.Y. Rajpure
191.	Investigating the role of oxygen vacancies in CeO_2 nanoparticles for effective Rhodamine B degradation K.B. Erande, U.V. Nerle, R.S. Pedanekar, A.R. Patil, A.V. More, K.Y. Rajpure
192.	Synthesis and characterization of strontium titanate by simple co-precipitate method S.S. Band, L.D. Namade, K.Y. Rajpure
193.	Unveiling memcacapacitive behavior of barium titanate thin film deposited via spray pyrolysis technique L.D. Namade, T.D. Dongle, A.R. Patil, K.Y. Rajpure
	Paper no. 190-193 were presented at two days National Conference on Physics of Material and Materials based Device Fabrication- 2023 (NCPM-MDF-2023), 25-26 Nov. 2023 department of Physics, Shivaji University, Kolhapur