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

4. **Teaching Experience to P.G.: 25**

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: **78**

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 ₂ O 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 ₂ SnO 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 tungsten 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 ₂ O ₃ /ZnO thin films

17.	Dr. S. B. Madake	2021	Synthesis and characterization of spray deposited $\text{Cu}_x\text{Ni}_y\text{Zn}_{1-x-y}\text{Fe}_2\text{O}_4$ 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

Working

Sr. No.	Name	Date of Registration	Title of synopsis
1.	Miss. S. R. Jadhav	2021	Studies on ZnO based composites for photocatalysis
2.	Mr. K. B. Erande	2021	Synthesis and characterization of spray deposited CeO_2 , SrTiO_3 , $\text{CeO}_2 / \text{SrTiO}_3$ thin films for Photoelectrocatalytic application
3.	Mr. L. D. Namade	2021	Studies on memristive properties of spray deposited BaTiO_3 and SrTiO_3 thin films
4.	Mr. P. K. Pawar	2024	Studies on chemically synthesized transition metal (Co,Mn,Mg) phosphate for water splitting application
5.	Mr. T. R. Bodake	2024	Studies on W & Sn doped vanadium oxide nanostructures for gas sensing application
6.	Miss. A. A. Yadav	2024	Studies on hydrothermally synthesized mixed metal phosphate for supercapacitor application
7.	Miss. G. G. Chinde	2024	Photocatalytic degradation of organic compounds using iron vanadate, cerium vanadate and their composites
8.	Mr. S. T. Khade	2024	Enhanced photocatalytic degradation of organic compounds using doped bismuth vanadate

6. Journal Publications: 213

Total citations: 9234 (Scopus)

h-index: 59 (Scopus)

Total citations: 11529 (Google Scholar)

h- index: 65 (Google Scholar)
i-10 index: 183 (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 ₂ O 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 ₂ O ₃ , AlFe ₂ O ₃ and AlFe ₂ O 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

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

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

14. Invited Talks:

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
1 st International Conference on Physics of Materials and Materials Based Device Fabrication	Shivaji University Kolhapur	17-19 Jan. 2012

(ICPMMDF-2012)		
National seminar on physics of material and material-based device fabrication (NSPMMDF-2013)	Shivaji University Kolhapur	3-4 Jan. 2013
2 nd 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

16. Books Chapters

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

- The Influence of Mn Substitution on the Structural, Electrical and Magnetic Properties of CoFe₂O₄ 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,

Applications of Nano Materials: Electronics, Energy and Environment, Bloomsbury Publishing India Pvt. Ltd., 2012, **ISBN 978-93-82563-35-8**

- 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 WO₃ 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: 183 (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 $\sim 10^{-2} \square/\Omega$
- 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

- StellarNet 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: 213, Citations: 11,529, h-index: 65, i-10 index: 183
1.	A comparative study of concentration effect of complexing agent on the properties of spray deposited Sb ₂ S 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 ₂ S 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 ₂ Se 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 ₂ S ₃ and Bi ₂ S 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 ₂ S 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 ₂ Se 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 ₂ Se 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 ₂ S 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 ₂ S 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 ₂ S 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 ₂ S 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 ₂ S 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 ₂ S ₃ and Sb ₂ Se 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 ₂ Se 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 ₂ S 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
24.	Electrosynthesis and characterization of Fe doped CdSe thin films from ethylene glycol bath S.M. Pawar, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale. Applied Surface Science, 253 (17) (2007) 7313-7317. https://doi.org/10.1016/j.apsusc.2007.03.015
25.	Properties of highly oriented spray-deposited fluorine-doped tin oxide thin films on glass substrates of different thickness A.V. Moholkar, S.M. Pawar, K.Y. Rajpure, P.S. Patil, C.H. Bhosale. Journal of Physics and Chemistry of Solids, 68 (10) (2007) 1981-1988. https://dx.doi.org/10.1016/j.jpcs.2007.06.024

26.	Photoelectrochemical investigations on electrochemically deposited CdSe and Fe-doped CdSe thin films S.M. Pawar, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale. Solar Energy Materials and Solar Cells, 92 (1) (2008) 45-49. https://doi.org/10.1016/j.solmat.2007.08.011
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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 7 th National Convention / Conference of Electrochemists 18 th -20 th 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, 24 th -25 th 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
	9 th International Workshop on Physics of Semiconductor Devices (IWPSD-97) State Physics Laboratory, Lakhanow Road, Delhi
9.	Preparation and characterization of $\text{Sb}_2(\text{S}_x\text{Se}_{1-x})_3$ 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, 13 th -17 th 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 12 th International Conference on Photochemical Conversion and Storage of Solar Energy (IPS-12), 9 th -14 th Aug. 1998 Hahn - Meitner Institute, Department of Physical Chemistry, Glienicker Str. 100, 14109 Berlin, Germany
13.	Properties of photoelectrochemical cells formed with sprayed CdIn ₂ S ₄ thin films K.Y. Rajpure, V.L. Mathe, C.D. Lokhande, C.H. Bhosale
14.	Substrate temperature dependent properties of sprayed CdIn ₂ S 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), 23 rd -24 th Nov. 1998 Sri Venkateswara University, Tirupati (A.P.)
16.	Optical properties of CdIn ₂ S ₄ thin films and their use in photoelectrochemical cells K. Y. Rajpure, V. L. Mathe, C. D. Lokhande, C. H. Bhosale
	Regional Workshop on Characterization of Semiconductor nanostructure and their Application to Optoelectronic Devices, 1 st -4 th Dec. 1998 University of Delhi, Delhi
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 ₂ Te ₃ thin films R.P. Pawar, K.Y. Rajpure, C. H. Bhosale
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20.	Preparation and characterization of photoactive spray deposited Sb ₂ S ₃ and Sb ₂ Se ₃ thin films prepared from aqueous and non-aqueous media K. Y. Rajpure, C. D. Lokhande, C. H. Bhosale
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23.	Properties of spray deposited SnS_2 thin films A.M. Patil, K.Y. Rajpure, C.H. Bhosale
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24.	Properties of highly oriented spray deposited fluorine doped tin oxide thin films A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale
25.	Effect of substrate on properties of electrodeposited CdSe thin films from aqueous medium S.M. Pawar, K.Y. Rajpure, C.H. Bhosale
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27.	The effect of annealing on the structural and electrical properties of fluorine doped tin oxide thin films prepared from different spray solvents A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale
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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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38.	Structural, optical, and electrical properties of chemically sprayed CdIn ₂ O ₄ thin films R.J. Deokate, C.H. Bhosale, K.Y. Rajpure
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43.	Preparation of CdIn ₂ O ₄ thin films by Spray pyrolysis technique R.J. Deokate, C.H. Bhosale, K.Y. Rajpure
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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
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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
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61.	Studies on magnetic properties of $\text{Co}_{1-x}\text{Mn}_x\text{Fe}_2\text{O}_4$ spinel ferrites synthesized by combustion route R.C. Kambale, C.H. Bhosale, K.Y. Rajpure
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62.	Effect of antimony doping on properties of spray deposited tin oxide films A.R. Babar, C.H. Bhosale, K.Y. Rajpure
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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 8 th -10 th 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, 9 th -11 th 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 $(x)\text{NiFe}_{1.9}\text{Mn}_{0.1}\text{O}_4$ and $(1-x)\text{BaZr}_{0.08}\text{Ti}_{0.92}\text{O}_3$ 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 $\text{Ba}_{(1-x)}\text{Sr}_x\text{TiO}_3$ 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) , 19 th -20 th , 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), 21 st -23 rd 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), 7 th -10 th 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
	6 th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA6) 13 th -16 th 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], 23 rd -24 th 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
	55 th DAE Solid State Physics Symposium (DAE-SSPS 2010), 26 th -30 th 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), 26 th -28 th 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 $\text{Ni}_{0.8}\text{Co}_{0.2}\text{Fe}_{2-x}\text{Dy}_x\text{O}_4$ ($x=0$ 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
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), 21 st -22 nd 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 $\text{BaTi}_{1-x}\text{Sn}_x\text{O}_3$ ($x=0$ 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
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 $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$ 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 (NSPMMD-2011), 17 th -18 th 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 ₂ O 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, 8 th -10 th 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 ₂ O 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. Naikaware, 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 _y Fe _{1.8} O ₄ , 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 1 st International Conference on Physics of Materials and Materials based Device Fabrication (ICPMMDF-2012), 17 th -19 th Jan. 2012 Department of Physics, Shivaji University, Kolhapur
112.	The influence of Mn substitution on the structural, electrical and magnetic properties of CoFe ₂ O 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 6 th International symposium on macro and supramolecular architectures and materials (MAM-12), 21 st -25 th 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 _x Fe ₂ O 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) 14 th -15 th 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 (NSPMMD-2013), 3 rd -4 th 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 ₂ O 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 2 nd International conference on Physics of material and material based device fabrication (ICPMMDF-2014), 13 th -15 th 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, 15 th -16 th , Jan. 2014 Kolhapur-416012, (MS) India during.
146.	Physical properties of spray 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), 10 th -11 th 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 $(x)\text{Co}_{0.8}\text{Mn}_{0.2}\text{Fe}_2\text{O}_4$ and $(1-x)\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3$ magnetoelectric composites

	S.P. Yadav, K.Y. Rajpure
156.	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
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 2 nd International Conference on Physics of Materials and Materials based Device Fabrication (ICPMMDF-2014), 13 th -15 th Jan. 2014 Department of Physics, Shivaji University, Kolhapur
161.	Electrical properties and magnetoelectric effect in (x) Co _{0.8} Mn _{0.2} Fe ₂ O 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 ₂ O 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 photodetector 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 M.A. Mahadik, V.S. Mohite, Y.M. Hunge, R.T. Sapkal, S.S. Kumbhar, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale
	Paper no. 161-171 were presented in national seminar on physics of material and material based device fabrication (NSPM-MDF-2014), 19 th -20 th Dec. 2014, Shivaji university Kolhapur
172.	Photoelectrocatalytic activity of spray deposited Fe ₂ O 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
	International Conference on Nanotechnology Addressing The Convergence Of Material Science, Biotechnology And Medical Science,(IC- NACMBM-2017), 9 th -11 th Nov. 2017, D Y Patil Education Society Deemed University, Kolhapur
173.	Nanocrystalline ZnO photoelectrode for degradation of salicylic acid and methyl orange dye R.D. Suryavanshi, S. V. Mohite, A. A. Bagade, K.Y. Rajpure
	Innovative Research In Science And Technology(ICIRST-2017), 7 th -8 th Nov. 2017 Gopal Krishna Gokhale College, Kolhapur
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 ₂ WO ₆ thin films for photocatalytic application R.S. Pedanekar, A.D. Dhok, K.Y. Rajpure
	Paper no. 174 - 175 were presented at 5 th International Conference on Advances in Materials science (online) (ICAMS-2020), 6 th -7 th Jun. 2020 , Department of Physics, Raje Ramrao Mahavidyalay, Jath, Shivaji University, Kolhapur
176.	Deposition of porous zinc ferrite thin films by spray pyrolysis technique S.B. Madake, K.Y. Rajpure

	International econference on cutting edge smart materials & nanotechnology (ICCESMN-2020), 2 nd -4 th Jan. 2020 SGM College, Karad
177.	Chemiresistive SO ₂ gas sensing properties of porous zinc ferrite thin films deposited by spray pyrolysis technique S.B. Madake, K.Y. Rajpure
	International winter school 7 th -11 th Dec. 2020 Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore
178.	Fabrication of multifunctional porous TiO ₂ for sensitive carbon dioxide sensor and ultraviolet detector S. M. kumbhar, K. Y. Rajpure
179.	Sprayed deposited Bi ₂ WO ₆ thin films for photocatalytic application R.S. Pedanekar, A.D. Dhok, K.Y. Rajpure
	Paper no.178-179 were presented at 5 th International Conference on Advances in Materials science (online) (ICAMS-2020), 6 th -7 th Jun. 2020 Department of Physics, Raje Ramrao Mahavidyalay, Jath, Shivaji University, Kolhapur
180.	Photoelectrocatalytic degradation of organic compounds by using spray deposited Bi ₂ WO 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 ₂ WO 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), 9 th -10 th March 2022 Department of Physics, Rajarshi Chhatrapati Shahu College, Kolhapur
182.	Operating voltage-based mem-capacitive behavior of spray 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), 20 th -21 st March 2023 Karmveer 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) 9-10 th 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 9 th -10 th 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) 29 th April, 2023, Prof. Dr. N. D. Patil Mahavidyalaya, Malkapur
186.	Solar assisted photoelectrocatalytic degradation of organic compounds by spray deposited Bi ₂ WO 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
	Paper no.186-189 were presented at One day international conference on recent trends in fabrication of nano-materials and their applications (ICRTFNA-2023), 15 th March 2023 Department of Physics, Rajarshi Chhatrapati Shahu College, Kolhapur
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