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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,
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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 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
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 , $\text{CeO}_2 / \text{SrTiO}_3$ 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: 231
Total citations: 10,578 (Scopus)
h-index: 62 (Scopus)

Total citations: 13141 (Google Scholar)
h- index: 68 (Google Scholar)
i-10 index: 194 (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 Ganapati 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
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, CO₂ 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
1 st 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
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
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 $\sim 10^{-2} \square/\Omega$
- 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: 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 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-CdIn₂S₄ 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 Sb₂Se₃ 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 Sb₂Se₃ 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-Sb₂S₃ 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 Sb₂S₃ 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.	Sb₂S₃ 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-Sb₂S₃ 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 CdIn₂S₄ 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 SnO₂ 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
27.	Spray deposition of highly transparent fluorine doped cadmium oxide thin films R.J. Deokate, S.M. Pawar, A.V. Moholkar, V.S. Sawant, C.A. Pawar, C.H. Bhosale, K.Y. Rajpure. Applied Surface Science, 254 (7) (2008) 2187-2195. https://dx.doi.org/10.1016/j.apsusc.2007.09.006
28.	Room temperature synthesis and characterization of CdO nanowires by chemical bath deposition (CBD) method D.S. Dhawale, A.M. More, S.S. Lathe, K.Y. Rajpure, C.D. Lokhande. Applied Surface Science, 254 (11) (2008) 3269-3273. https://dx.doi.org/10.1016/j.apsusc.2007.11.013
29.	Photoelectrochemical properties of spray deposited n-ZnIn₂Se₄ thin films S.P. Yadav, P.S. Shinde, K.Y. Rajpure, C.H. Bhosale. Solar Energy Materials and Solar Cells, 92 (4) (2008) 453-456. https://dx.doi.org/10.1016/j.solmat.2007.10.008
30.	Effect of concentration of SnCl₄ on sprayed fluorine doped tin oxide thin films A.V. Moholkar, S.M. Pawar, K.Y. Rajpure, C.H. Bhosale. Journal of Alloys and Compounds, 455 (1-2) (2008) 440-446. https://doi.org/10.1016/j.jallcom.2007.01.160
31.	Optoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films S.S. Shinde, P.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Journal of Physics D: Applied Physics, 41 (10) (2008) 105109 https://dx.doi.org/10.1088/0022-3727/41/10/105109
32.	Preparation and properties of spray-deposited ZnIn₂Se₄ nanocrystalline thin films S.P. Yadav, P.S. Shinde, K.Y. Rajpure, C.H. Bhosale. Journal of Physics and Chemistry of Solids, 69 (7) (2008) 1747-1752. https://doi.org/10.1016/j.jpcs.2007.12.012

33.	Gallium doping in transparent conductive ZnO thin films prepared by chemical spray pyrolysis A.R. Babar, P.R. Deshamukh, R.J. Deokate, D. Haranath, C.H. Bhosale, K.Y. Rajpure. Journal of Physics D: Applied Physics, 41 (13) (2008) 135404. https://dx.doi.org/10.1088/0022-3727/41/13/135404
34.	Room temperature electrocrystallization of CdSe thin films from ethylene glycol bath S.M. Pawar, A.V. Moholkar, P.S. Shinde, K.Y. Rajpure, C.H. Bhosale. Journal of Alloys and Compounds, 459 (1-2) (2008) 515-520. https://doi.org/10.1016/j.jallcom.2007.05.015
35.	Physical properties of transparent and conducting sprayed fluorine doped zinc oxide thin films S.S. Shinde, P.S. Shinde, S.M. Pawar, A.V. Moholkar, C.H. Bhosale, K.Y. Rajpure. Solid State Sciences, 10 (9) (2008) 1209-1214. https://doi.org/10.1016/j.solidstatesciences.2007.11.031
36.	Effect of precursor concentration on the properties of ITO thin films A.V. Moholkar, S.M. Pawar, K.Y. Rajpure, V. Ganesan, C.H. Bhosale. Journal of Alloys and Compounds, 464 (1-2) (2008) 387-392. https://doi.org/10.1016/j.jallcom.2007.09.138
37.	Solvent-dependent growth of sprayed FTO thin films with mat-like morphology A.V. Moholkar, S.M. Pawar, K.Y. Rajpure, S.N. Almari, P.S. Patil, C.H. Bhosale. Solar Energy Materials and Solar Cells, 92 (11) (2008) 1439-1444. https://dx.doi.org/10.1016/j.solmat.2008.06.010
38.	Optoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films S.S. Shinde, P.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Journal of Physics D: Applied Physics, 41 (2008) 105109. https://dx.doi.org/10.1088/0022-3727/41/22/228002
39.	Reply to ‘comment on “optoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films”’ S.S. Shinde, P.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Journal of Physics D: Applied Physics, 41 (22) (2008) 228002. https://dx.doi.org/10.1088/0022-3727/41/22/228002
40.	Gas Sensing of Fluorine Doped Tin Oxide Thin Films Prepared by Spray Pyrolysis A.A. Yadav, E.U. Masumdar, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale. Sensors & Transducers Journal, 92 (2008) 55-60. https://www.sensorsportal.com/HTML/DIGEST/P_274.htm
41.	Synthesis and characterization of CdIn₂O₄ thin films by spray pyrolysis technique R. J. Deokate, C.H. Bhosale, K.Y. Rajpure.

	Journal of Alloys and Compounds, 473 (1-2) (2009) L20-L24. https://dx.doi.org/10.1016/j.jallcom.2008.05.100
42.	Effect of calcining temperature on electrical and dielectric properties of cadmium stannate V.S Sawant, S.S Shinde, R.J. Deokate, C.H. Bhosale, B.K. Chougule, K.Y. Rajpure. Applied Surface Science, 255 (13-14) (2009) 6675-6678. https://doi.org/10.1016/j.apsusc.2009.02.070
43.	Effect of quantity of spraying solution on the properties of spray deposited fluorine doped tin oxide thin films A.A. Yadav, E.U. Masumdar, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale. Physica B: Condensed Matter, 404 (12-13) (2009) 1874-1877. https://doi.org/10.1016/j.physb.2009.03.006
44.	Fabrication of Fe: CdSe solar rechargeable (semiconductor-septum) storage cells S. M. Pawar, A.V. Moholkar, K. Y. Rajpure, J. H. Kim, C. D. Lokhande, C.H. Bhosale. Current Applied Physics, 9 (5) (2009) 1122-1124. https://dx.doi.org/10.1016/j.cap.2009.01.001
45.	Effect of fluorine doping on highly transparent conductive spray deposited nanocrystalline tin oxide thin films A.V. Moholkar, S.M. Pawar, K.Y. Rajpure, C.H. Bhosale, J.H. Kim. Applied Surface Science, 255 (23) (2009) 9358-9364. https://dx.doi.org/10.1016/j.apsusc.2009.07.035
46.	The effect of Mn substitution on the magnetic and dielectric properties of cobalt ferrite synthesized by an autocombustion route R.C. Kambale, P.A. Shaikh, C.H. Bhosale, K.Y. Rajpure, Y.D. Kolekar. Smart Materials and Structures, 18 (11) (2009) 115028. https://dx.doi.org/10.1088/0964-1726/18/11/115028
47.	Dielectric properties and complex impedance spectroscopy studies of mixed Ni-Co ferrites R.C. Kambale, P.A. Shaikh, C.H. Bhosale, K.Y. Rajpure, Y.D. Kolekar. Smart Materials and Structures, 18 (8) (2009) 085014. https://dx.doi.org/10.1088/0964-1726/18/8/085014
48.	Electrical, structural and optical properties of SnO ₂ :F thin films: Effect of the substrate temperature A.A. Yadav, E.U. Masumdar, A.V. Moholkar, M. Neumann-Spallart, K.Y. Rajpure, C.H. Bhosale. Journal of Alloys and Compounds, 488 (1) (2009) 350-355. https://doi.org/10.1016/j.jallcom.2009.08.130
49.	Liquefied petroleum gas (LPG) sensing properties of nanosized sprayed CdIn ₂ O ₄ thin films R.J. Deokate, R.R. Salunkhe, K.Y. Rajpure. Sensors & Transducers Journal, 104 (2009) 87-95. https://www.sensorsportal.com

50.	Studies on magnetic, dielectric and magnetoelectric behavior of (χ) $\text{NiFe}_{1.9}\text{Mn}_{0.1}\text{O}_4$ and ($1-\chi$) $\text{BaZr}_{0.08}\text{Ti}_{0.92}\text{O}_3$ / magnetoelectric composites R.C. Kambale, P.A. Shaikh, C.H. Bhosale, K.Y. Rajpure, Y.D. Kolekar. Journal of Alloys and Compounds, 489 (1) (2010) 310-315. https://doi.org/10.1016/j.jallcom.2009.09.080
51.	Structural and magnetic properties of $\text{Co}_{1-x}\text{Mn}_x\text{Fe}_2\text{O}_4$ ($0 \leq x \leq 0.4$) spinel ferrites synthesized by combustion route R.C. Kambale, P.A. Shaikh, N.S. Harale, V.A. Bilur, Y.D. Kolekar, C.H. Bhosale, K.Y. Rajpure. Journal of Alloys and Compounds, 490 (1-2) (2010) 568-571. https://doi.org/10.1016/j.jallcom.2009.10.082
52.	Studies on dielectric and magnetoelectric behavior of 25% CMFO ferrite and 75% BZT ferroelectric multiferroic magnetoelectric composites R.C. Kambale, P.A. Shaikh, Y.D. Kolekar, C.H. Bhosale, K.Y. Rajpure. Materials Letters, 64 (4) (2010) 520-523. https://doi.org/10.1016/j.matlet.2009.11.064
53.	Temperature-dependent properties of spray-deposited ITO thin films A.V. Moholkar, S.M. Pawar, K.Y. Rajpure, P.S. Patil, C.H. Bhosale, J.H. Kim. Journal of Thermal Spray Technology, 19 (3) (2010) 531-540. https://dx.doi.org/10.1007/s11666-009-9412-4
54.	Studies on the effect of nozzle-to-substrate distance on the structural, electrical and optical properties of spray deposited CdIn_2O_4 thin films R.J. Deokate, A.V. Moholkar, G.L. Agawane, S.M. Pawar, J.H. Kim, K.Y. Rajpure. Applied Surface Science, 256 (11) (2010) 3522-3530. https://doi.org/10.1016/j.apsusc.2009.12.102
55.	Structural, optical and electrical properties of chemically sprayed nanosized gallium doped CdO thin films R.J. Deokate, S.V. Salunkhe, G.L. Agawane, B.S. Pawar, S.M. Pawar, K.Y. Rajpure, A.V. Moholkar, J.H. Kim. Journal of Alloys and Compounds, 496 (1-2) (2010) 357-363. https://doi.org/10.1016/j.jallcom.2010.01.150
56.	Influence of substrates on photoelectrochemical performance of sprayed n- CdIn_2S_4 electrodes R.R. Sawant, S.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Solar Energy, 84 (7) (2010) 1208-1215. https://doi.org/10.1016/j.solener.2010.03.028
57.	Influences in high quality zinc oxide films and their photoelectrochemical performance S.S. Shinde, P.S. Patil, R.S. Gaikwad, R.S. Mane, B.N. Pawar, K.Y. Rajpure. Journal of Alloys and Compounds, 503 (2) (2010) 416-421. https://doi.org/10.1016/j.jallcom.2010.05.019
58.	Electrical and dielectric properties of co-precipitated nanocrystalline tin oxide A.R. Babar, S.S. Shinde, A.V. Moholkar, K.Y. Rajpure.

	Journal of Alloys and Compounds, 505 (2) (2010) 743-749. https://doi.org/10.1016/j.jallcom.2010.06.131
59.	Structural and optoelectronic properties of antimony incorporated tin oxide thin films A.R. Babar, S.S. Shinde, A.V. Moholkar, C.H. Bhosale, J.H. Kim, K.Y. Rajpure. Journal of Alloys and Compounds, 505 (2) (2010) 416-422. https://doi.org/10.1016/j.jallcom.2010.06.091
60.	Temperature dependent structural, luminescent and XPS studies of CdO:Ga thin films deposited by spray pyrolysis A.V. Moholkar, G.L. Agawane, K.U. Sim, Y.B. Kwon, D.S. Choi, K.Y. Rajpure, J.H. Kim. Journal of Alloys and Compounds, 506 (2) (2010) 794-799. https://doi.org/10.1016/j.jallcom.2010.07.072
61.	Influence of deposition temperature on morphological, optical, electrical and opto-electrical properties of highly textured nano-crystalline spray deposited CdO:Ga thin films A.V. Moholkar, G.L. Agawane, K.U. Sim, Y.B. Kwon, D.S. Choi, K.Y. Rajpure, J.H. Kim. Applied Surface Science, 257 (1) (2010) 93-101. https://doi.org/10.1016/j.apsusc.2010.06.043
62.	(Photo) electrochemical investigations on spray deposited n-CdIn ₂ Se ₄ thin film/polysulphide/C photoelectrochemical solar cell V.M. Nikale, S.S. Shinde, A.R. Babar, C.H. Bhosale, K.Y. Rajpure. Applied Solar Energy, 46 (3) (2010) 194-201. https://dx.doi.org/10.3103/S0003701X10030084
63.	Investigation of structural, morphological, luminescent and thermal properties of combusted aluminium-based iron oxide S.S. Shinde, K.Y. Rajpure. Journal of Solid State Chemistry, 183 (12) (2010) 2886-2894. https://dx.doi.org/10.1016/j.jssc.2010.09.035
64.	Studies on structural and dielectric properties of CMFO ferrite and BZT ferroelectric magnetoelectric composites R.C. Kambale, P.A. Shaikh, K.Y. Rajpure, P.B. Joshi, Y.D. Kolekar. Integrated Ferroelectrics, 121 (1) (2010) 1-12. https://doi.org/10.1080/10584587.2010.491765
65.	Electron-phonon interaction and size effect study in catalyst based zinc oxide thin films S.S. Shinde, P.S. Shinde, V.G. Sathe, S.R. Barman, C.H. Bhosale, K.Y. Rajpure. Journal of Molecular Structure, 984 (1-3) (2010) 186-193. https://doi.org/10.1016/j.molstruc.2010.09.026

66.	Physical properties of hematite α -Fe ₂ O ₃ thin films: Application to photoelectrochemical solar cells S.S. Shinde, R.A. Bansode, C.H. Bhosale, K.Y. Rajpure. Journal of Semiconductors, 32 (1) (2011) 013001. https://dx.doi.org/10.1088/1674-4926/32/1/013001
67.	Semiconductor-septum solar rechargeable storage cells R.R. Sawant, S.S. Shinde, C.H. Bhosale, K.Y. Rajpure, Journal of Alloys and Compounds, 509 (4) (2011) 1305-1309. https://dx.doi.org/10.1016/j.jallcom.2010.10.020
68.	Photoelectrochemical performance of sprayed n-CdIn ₂ Se ₄ photoanodes V.M. Nikale, S.S. Shinde, A.R. Babar, C.H. Bhosale, K.Y. Rajpure. Solar Energy, 85 (2) (2011) 325-333. https://dx.doi.org/10.1016/j.solener.2010.11.020
69.	Physical properties of chemical vapour deposited nanostructured carbon thin films D.B. Mahadik, S.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Journal of Alloys and Compounds, 509 (5) (2011) 1418-1423. https://dx.doi.org/10.1016/j.jallcom.2010.11.021
70.	Sensing properties of sprayed antimony doped tin oxide thin films: Solution molarity A.R. Babar, S.S. Shinde, A.V. Moholkar, C.H. Bhosale, J.H. Kim, K.Y. Rajpure. Journal of Alloys and Compounds, 509 (6) (2011) 3108-3115. https://dx.doi.org/10.1016/j.jallcom.2010.12.012
71.	Structural, morphological and electrical properties of spray deposited CdIn ₂ Se ₄ thin films V.M. Nikale, S.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Journal of Alloys and Compounds, 509 (6) (2011) 3116-3121. https://dx.doi.org/10.1016/j.jallcom.2010.12.013
72.	Physical properties of spray deposited CdTe thin films: PEC performance V.M. Nikale, S.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Journal of Semiconductors, 32 (3) (2011)033001. https://dx.doi.org/10.1088/1674-4926/32/3/033001
73.	Studies on morphological and electrical properties of Al incorporated combusted iron oxide S.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Journal of Alloys and Compounds, 509 (9) (2011) 3943-3951. https://dx.doi.org/10.1016/j.jallcom.2010.12.185
74.	Mössbauer, raman, and magnetoresistance study of aluminum-based iron oxide thin films S.S. Shinde, S.S. Meena, S.M. Yusuf, K.Y. Rajpure. Journal of Physical Chemistry C, 115 (9) (2011) 3731-3736. https://dx.doi.org/10.1021/jp111922m

75.	Structural, morphological, luminescent and electronic properties of sprayed aluminium incorporated iron oxide thin films S.S. Shinde, A.V. Moholkar, J.H. Kim, K.Y. Rajpure. Surface and Coatings Technology, 205 (12) (2011) 3567-3577. https://dx.doi.org/10.1016/j.surfcoat.2010.12.022
76.	X-ray photoelectron spectroscopic study of catalyst based zinc oxide thin films S.S. Shinde, K.Y. Rajpure. Journal of Alloys and Compounds, 509 (13) (2011) 4603-4607. https://dx.doi.org/10.1016/j.jallcom.2011.01.117
77.	Physical properties of sprayed antimony doped tin oxide thin films: The role of thickness A.R. Babar, S.S. Shinde, A.V. Moholkar, C.H. Bhosale, J.H. Kim, K.Y. Rajpure. Journal of Semiconductors, 32 (5) (2011) 053001. https://dx.doi.org/10.1088/1674-4926/32/5/053001
78.	Photocatalytic activity of sea water using TiO ₂ catalyst under solar light S.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Journal of Photochemistry and Photobiology B: Biology, 103 (2) (2011) 111-117. https://doi.org/10.1016/j.jphotobiol.2011.02.002
79.	The n-CdIn ₂ Se ₄ /p-CdTe heterojunction solar cells V.M. Nikale, S.S. Shinde, A.R. Babar, C.H. Bhosale, K.Y. Rajpure. Solar Energy, 85 (7) (2011) 1336-1342. https://dx.doi.org/10.1016/j.solener.2011.03.014
80.	Development of CZTS thin films solar cells by pulsed laser deposition: Influence of pulse repetition rate A.V. Moholkar, S.S. Shinde, A.R. Babar, K.U. Sim, Y.B. Kwon, K.Y. Rajpure, P.S. Patil, C.H. Bhosale, J.H. Kim. Solar Energy, 85 (7) (2011) 1354-1363. https://dx.doi.org/10.1016/j.solener.2011.03.017
81.	Synthesis and characterization of Cu ₂ ZnSnS ₄ thin films grown by PLD: Solar cells A.V. Moholkar, S.S. Shinde, A.R. Babar, K.U. Sim, Y.B. Kwon, K.Y. Rajpure, P.S. Patil, C.H. Bhosale, J.H. Kim. Journal of Alloys and Compounds, 509 (27) (2011) 7439-7446. https://dx.doi.org/10.1016/j.jallcom.2011.04.074
82.	Structural, compositional and electrical properties of co-precipitated zinc stannate A.R. Babar, S.B. Kumbhar, S.S. Shinde, A.V. Moholkar, J.H. Kim, K.Y. Rajpure. Journal of Alloys and Compounds, 509 (27) (2011) 7508-7514. https://dx.doi.org/10.1016/j.jallcom.2011.04.105
83.	Photocatalytic oxidation of salicylic acid and 4-chlorophenol in aqueous solutions mediated by modified AlFe ₂ O ₃ catalyst under sunlight S.S. Shinde, C.H. Bhosale, K.Y. Rajpure.

	Journal of Molecular Catalysis A: Chemical, 347 (1-2) (2011) 65-72. https://dx.doi.org/10.1016/j.molcata.2011.07.012
84.	High-performance UV detector based on Ga-doped zinc oxide thin films S.S. Shinde, K.Y. Rajpure. Applied Surface Science, 257 (22) (2011) 9595-9599. https://dx.doi.org/10.1016/j.apsusc.2011.06.073
85.	Zinc oxide mediated heterogeneous photocatalytic degradation of organic species under solar radiation S.S. Shinde, P.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Journal of Photochemistry and Photobiology B: Biology, 104 (3) (2011) 425-433. https://dx.doi.org/10.1016/j.jphotobiol.2011.04.010
86.	Fast response ultraviolet Ga-doped ZnO based photoconductive detector S.S. Shinde, K.Y. Rajpure. Materials Research Bulletin, 46 (10) (2011) 1734-1737. https://dx.doi.org/10.1016/j.materresbull.2011.05.032
87.	Structural and optoelectronic properties of sprayed Sb:SnO ₂ thin films: Effects of substrate temperature and nozzle-to-substrate distance A.R. Babar, S.S. Shinde, A.V. Moholkar, C.H. Bhosale, K.Y. Rajpure. Journal of Semiconductors, 32 (10) (2011) 102001. https://dx.doi.org/10.1088/1674-4926/32/10/102001
88.	Studies on the Dielectric and the Magnetic Properties of Co-Mn Ferrite and BZT Ferroelectric Particulate Magnetoelectric Composites R.C. Kambale, Y.A. Park, N. Hur, K.Y. Rajpure, S.S. Suryavanshi. Journal of the Korean Physical Society, 59 (6) (2011) 3385-3390. https://dx.doi.org/10.3938/jkps.59.3385
89.	Photoelectrocatalytic purification of fecal, tap and E.Coli contained water using ZnO thin films: A comparative study R.T. Sapkal, S.S. Shinde, A.R. Babar, C.B. Jalkute, K.Y. Rajpure K.D. Sonawane, C.H. Bhosale. International Journal of Basic and Applied Research, 01 (2011) 42-49.
90.	Investigation of structural, optical, and luminescent properties of sprayed N-doped zinc oxide thin films S. S. Shinde, P.S. Shinde, Y. W. Oh, D. Haranath, C. H. Bhosale, K. Y Rajpure. Journal of Analytical and Applied Pyrolysis, 97 (2012) 181-188. https://dx.doi.org/10.1016/j.jaap.2012.06.007
91.	N-doped ZnO based fast response ultraviolet photoconductive detector S.S. Shinde, C. H. Bhosale, K. Y. Rajpure. Solid-State Electronics, 68 (2012) 22-26. https://doi.org/10.1016/j.sse.2011.10.031
92.	Structural, morphological, optical and photoluminescence properties of Ag-doped zinc oxide thin films R. T. Sapkal, S.S. Shinde, A.R. Babar, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale.

	Materials Express, 2 (1) (2012) 64-70. https://doi.org/10.1166/mex.2012.1049
93.	Photo-corrosion inhibition and photoactivity enhancement with tailored zinc oxide thin films R. T. Sapkal, S.S. Shinde, T. R. Waghmode, S. P. Govindwar, K.Y. Rajpure, C.H. Bhosale. Journal of Photochemistry and Photobiology B: Biology, 110 (2012) 15-21. https://dx.doi.org/10.1016/j.jphotobiol.2012.02.004
94.	Fabrication and performance of N-doped ZnO UV photoconductive detector S. S. Shinde, K.Y. Rajpure. Journal of Alloys and Compounds, 522 (2012) 118-122. https://doi.org/10.1016/j.jallcom.2012.01.118
95.	Structural, optical, electrical and thermal properties of zinc oxide thin films by chemical spray pyrolysis S.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Journal of Molecular Structure, 1021 (2012)123-129. https://dx.doi.org/10.1016/j.molstruc.2012.04.045
96.	Photoelectrocatalytic decolorization and degradation of textile effluent using ZnO thin films R.T. Sapkal, S.S. Shinde, M.A. Mahadik, V.S. Mohite, T.R. Waghmode, S.P. Govindwar, K.Y. Rajpure, C.H. Bhosale. Journal of Photochemistry and Photobiology B: Biology, 114 (2012) 102-107. https://doi.org/10.1016/j.jphotobiol.2012.05.016
97.	Structural, optoelectronic, luminescence and thermal properties of Ga-doped zinc oxide thin films S. S. Shinde, P.S. Shinde, Y. W. Oh, D. Haranath, C.H. Bhosale, K. Y. Rajpure. Applied Surface Science, 258 (24) (2012) 9969-9976. https://doi.org/10.1016/j.apsusc.2012.06.058
98.	Photoelectrocatalytic degradation of oxalic acid by spray deposited nanocrystalline zinc oxide thin films S. S. Shinde, P.S. Shinde, R.T. Sapkal, Y.W. Oh, D. Haranath, C. H. Bhosale, K.Y. Rajpure. Journal of Alloys and Compounds, 538 (2012) 237-243. https://doi.org/10.1016/j.jallcom.2012.05.124
99.	Photoelectrocatalytic activity of spray deposited ZnO thin films against E. coli Davis R. T. Sapkal, S.S. Shinde, D.M. Sapkal, A.R. Babar, V.V. Shinde, C.B. Jalkute, A.V. Moholkar, K.Y. Rajpure, K.D. Sonawane, P.S. Patil, C.H. Bhosale. Material Research Innovations, 16 (6) (2012) 417-424. https://doi.org/10.1179/1433075X12Y.0000000024
100.	Hydroxyl radical's role in the remediation of wastewater S.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Journal of Photochemistry and Photobiology B: Biology, 116 (2012) 66-74. https://doi.org/10.1016/j.jphotobiol.2012.08.003

101.	Size dependent electron-phonon coupling in N, Li, In, Ga, F and Ag doped ZnO thin films S. S. Shinde, C.H. Bhosale, K.Y. Rajpure. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 98 (2012) 453-456. https://dx.doi.org/10.1016/j.saa.2012.08.076
102.	Oxidative degradation of acid orange 7 using Ag-doped zinc oxide thin films S. S. Shinde , C.H. Bhosale , K.Y. Rajpure. Journal of Photochemistry and Photobiology B: Biology, 117 (2012) 262-268. https://dx.doi.org/10.1016/j.jphotobiol.2012.10.011
103.	Studies of compositional dependent CZTS thin film solar cells by pulsed laser deposition technique: An attempt to improve the efficiency A.V. Moholkar, S.S. Shinde, G.L. Agawane, S.H. Jo, K.Y. Rajpure, P.S. Patil, C.H. Bhosale, J.H Kim. Journal of Alloys and Compounds, 544 (2012) 145-151. https://dx.doi.org/10.1016/j.jallcom.2012.07.108
104.	Influence of tin doping onto structural, morphological, optoelectronic and impedance properties of sprayed ZnO thin films S.S. Shinde, A.P. Korade, C.H. Bhosale, K.Y. Rajpure. Journal of Alloys and Compounds, 551 (2013) 688-693. https://dx.doi.org/10.1016/j.jallcom.2012.11.057
105.	Structural, morphological, electrical and magnetic properties of Dy doped Ni-Co substitutional spinel ferrite A.A. Kadam, S.S. Shinde, S.P. Yadav, P.S. Patil, K.Y. Rajpure. Journal of Magnetism and Magnetic Materials, 329 (2013) 59-64. https://dx.doi.org/10.1016/j.jmmm.2012.10.008
106.	Photoelectrochemical properties of highly mobilized Li-doped ZnO thin films S.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Journal of Photochemistry and Photobiology B: Biology, 120 (2013) 1-9. https://dx.doi.org/10.1016/j.jphotobiol.2013.01.003
107.	Solar light assisted photocatalysis of water using a zinc oxide semiconductor S.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Journal of Semiconductors, 34 (4) (2013) 043002. https://dx.doi.org/10.1088/1674-4926/34/4/043002
108.	Structural, morphological, dielectrical, magnetic and impedance properties of $\text{Co}_{1-x}\text{Mn}_x\text{Fe}_2\text{O}_4$ S.P. Yadav, S.S. Shinde, A.A. Kadam, K.Y. Rajpure. Journal of Alloys and Compounds, 555 (2013) 330-334. https://dx.doi.org/10.1016/j.jallcom.2012.12.089
109.	Physical properties of spray deposited Ni-doped zinc oxide thin films S.K. Patil, S.S. Shinde, K.Y. Rajpure. Ceramics International, 39 (4) (2013) 3901-3907. https://dx.doi.org/10.1016/j.ceramint.2012.10.234
110.	Photoelectrocatalytic hydrolysis of starch by using sprayed ZnO thin films R.T. Sapkal, S.S. Shinde, K.Y. Rajpure, C.H. Bhosale.

	Journal of Semiconductors, 34 (5) (2013) 053001. https://dx.doi.org/10.1088/1674-4926/34/5/053001
111.	Kinetic analysis of heterogeneous photocatalysis: Role of hydroxyl radicals S.S .Shinde, C.H. Bhosale, K.Y. Rajpure. Catalysis Reviews - Science and Engineering, 55 (1) (2013) 79-133. https://dx.doi.org/10.1080/01614940.2012.734202
112.	Structural, morphological, dielectrical and magnetic properties of Mn substituted cobalt ferrite S.P. Yadav, S.S. Shinde, A.A. Kadam, K.Y. Rajpure. Journal of Semiconductors, 34 (9) (2013) 093002. https://dx.doi.org/10.1088/1674-4926/34/9/093002
113.	Photocatalytic oxidation of Rhodamine B with ferric oxide thin films under solar illumination M. A. Mahadik, S.S. Shinde, K.Y. Rajpure, C.H. Bhosale. Materials Research Bulletin, 48 (10) (2013) 4058–4065. https://dx.doi.org/10.1016/j.materresbull.2013.06.031
114.	Photoelectrocatalytic oxidation of Rhodamine B with sprayed -Fe ₂ O ₃ photocatalyst M. A. Mahadik, S.S. Shinde, V.S. Mohite, S.S. Kumbhar, K.Y. Rajpure, A.V. Moholkar, J.H. Kim, C.H. Bhosale. Materials Express, 3 (3) (2013) 247–255. https://dx.doi.org/10.1166/mex.2013.1120
115.	Synthesis and characterization of Sb doped ZnO thin films for photodetector application S. V. Mohite, K. Y. Rajpure. Optical Materials, 36 (4) (2014) 833-838. https://dx.doi.org/10.1016/j.optmat.2013.12.007
116.	Development of Zn ₂ SnO ₄ thin films deposited by spray pyrolysis method and their utility for NO ₂ gas sensors at moderate operating temperature V.V. Ganbavle, M.A. Patil, H.P. Deshmukh, K.Y. Rajpure. Journal of Analytical and Applied Pyrolysis, 107 (2014) 233-241. https://dx.doi.org/10.1016/j.jaap.2014.03.006
117.	Photoelectrocatalytic activity of ferric oxide nanocatalyst: a synergistic effect of thickness M.A. Mahadik, S.S. Shinde, V.S. Mohite, S.S. Kumbhar, K.Y. Rajpure, A.V Moholkar, C.H. Bhosale. Ceramics International, 40 (2014) 9463-9471. https://dx.doi.org/10.1016/j.ceramint.2014.02.019
118.	Physicochemical properties of spray-deposited CoFe ₂ O ₄ thin films A. A. Bagade , V.V. Ganbavle , K.Y. Rajpure. Journal of Materials Engineering and Performance, 23 (2014) 2787-2794. https://dx.doi.org/10.1007/s11665-014-1032-6
119.	Structural, dielectric and magnetic properties of Ni substituted zinc ferrite S.S. Kumbhar , M.A. Mahadik , V.S. Mohite , K.Y. Rajpure , J.H. Kim , A.V. Moholkar , C.H. Bhosale.

	Journal of Magnetism and Magnetic Materials, 363 (2014) 114-120. https://dx.doi.org/10.1016/j.jmmm.2014.03.024
120.	Synthesis and characterization of spray deposited Nickel-Zinc ferrite thin films S.S. Kumbhar , M.A. Mahadik , V.S. Mohite , K.Y. Rajpure , C.H. Bhosale. Energy Procedia, 54 (2014) 599–605. https://dx.doi.org/10.1016/j.egypro.2014.07.301
121.	ZnO based visible-blind UV photodetector by spray pyrolysis S.I. Inamdar, V.V. Ganbavle, K.Y. Rajpure. Superlattices and Microstructures, 76 (2014) 253–263. https://dx.doi.org/10.1016/j.spmi.2014.09.041
122.	Remediation of wastewater: Role of hydroxyl radicals S.S. Shinde, C.H. Bhosale, K.Y. Rajpure, J.H. Lee. Journal of Photochemistry and Photobiology B: Biology, 141 (2014) 210-216. https://dx.doi.org/10.1016/j.jphotobiol.2014.10.015
123.	Photodegradation of organic pollutants using N-titanium oxide catalyst S.S. Shinde, C.H. Bhosale, K.Y. Rajpure. Journal of Photochemistry and Photobiology B: Biology, 141 (2014)186-191. https://dx.doi.org/10.1016/j.jphotobiol.2014.09.017
124.	Oxidative degradation of industrial wastewater using spray deposited TiO ₂ /Au:Fe ₂ O ₃ bilayered thin films M.A. Mahadik, S.S. Shinde, H.M. Pathan, K.Y. Rajpure, C.H. Bhosale. Journal of Photochemistry and Photobiology B: Biology, 141 (2014) 315-324. https://dx.doi.org/10.1016/j.jphotobiol.2014.10.014
125.	Structural, optical, electrical, and dielectric properties of the spray-deposited WO ₃ thin films V.V. Ganbavle, G.L. Agawane, A.V. Moholkar, J.H. Kim, K.Y. Rajpure. Journal of Materials Engineering and Performance, 23 (2014) 1204-1213. https://dx.doi.org/10.1007/s11665-014-0873-3
126.	Visible light catalysis of Rhodamine B using nanostructured Fe ₂ O ₃ , TiO ₂ and TiO ₂ /Fe ₂ O ₃ thin films M.A .Mahadik, S.S. Shinde, V.S. Mohite, S.S. Kumbhar, A.V. Moholkar, K.Y. Rajpure,V. Ganesan, J. Nayak, S.R. Barman, C.H. Bhosale. Journal of Photochemistry and Photobiology B: Biology, 133 (2014) 90-98. https://dx.doi.org/10.1016/j.jphotobiol.2014.01.017
127.	Nanostructured TiO ₂ thin film memristor using hydrothermal process T.D. Dongale, S.S. Shinde, R.K. Kamat, K.Y. Rajpure. Journal of Alloys and Compounds, 593 (2014) 267-270. https://dx.doi.org/10.1016/j.jallcom.2014.01.093
128.	Effect of Co doping on structural, morphological and LPG sensing properties of nanocrystalline ZnO thin films V.V. Ganbavle, S.K. Patil, S.I. Inamdar, S.S. Shinde, K.Y. Rajpure. Sensors and Actuators A: Physical, 216 (2014) 328–334. https://dx.doi.org/10.1016/j.sna.2014.06.009
129.	Studies on the synthesis and characterization of co-precipitated nanocrystalline Zn–Pb–O

	S. I. Inamdar, A. R. Babar, S. S. Shinde, K. Y. Rajpure. Journal of Molecular Structure, 1064 (2014) 130–134. https://dx.doi.org/10.1016/j.molstruc.2014.02.023
130.	High-performance metal–semiconductor–metal UV photodetector based on spray deposited ZnO thin films S.I. Inamdar, K.Y. Rajpure. Journal of Alloys and Compounds, 595 (2014) 55-59. https://dx.doi.org/10.1016/j.jallcom.2014.01.147
131.	IR absorption spectroscopic study of mixed cobalt substituted lithium ferrites V.S. Sawant, A.A. Bagade, S.V. Mohite, K.Y. Rajpure. Physica B: Condensed Matter, 451 (2014) 39–42. https://dx.doi.org/10.1016/j.physb.2014.06.019
132.	UV assisted photoelectrocatalytic oxidation of phthalic acid using spray deposited Al doped zinc oxide thin films M.A. Mahadik, S.S. Shinde, Y.M. Hunge, V.S. Mohite, S.S. Kumbhar, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale. Journal of Alloys and Compounds, 611 (2014) 446-451. https://dx.doi.org/10.1016/j.jallcom.2014.05.023
133.	Effect of solution concentration on physicochemical and gas sensing properties of sprayed WO ₃ thin films V.V. Ganbavle, S.V. Mohite, J.H. Kim, K.Y. Rajpure. Current Applied Physics, 15 (2015) 84-93. https://dx.doi.org/10.1016/j.cap.2014.11.004
134.	Enhanced photocatalytic activity of sprayed Au doped ferric oxide thin films for salicylic acid degradation in aqueous medium M.A. Mahadik, S.S. Shinde, S.S. Kumbhar, H.M. Pathan, K.Y. Rajpure, C.H. Bhosale. Journal of Photochemistry and Photobiology B: Biology, 142 (2015) 43-50. https://dx.doi.org/10.1016/j.jphotobiol.2014.09.021
135.	Exploring structural and magnetic properties of nanocrystalline iron oxide synthesized by autocombustion method K.Y. Rajpure. Superlattices and Microstructures, 77 (2015) 181-195. https://dx.doi.org/10.1016/j.spmi.2014.11.012
136.	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. Journal of Photochemistry and Photobiology B: Biology, 142 (2015) 204-211. https://dx.doi.org/10.1016/j.jphotobiol.2014.12.004
137.	Effect of intermittent time on structural, optoelectronic, luminescence properties of sprayed antimony doped tin oxide thin films A.R. Babar, K.Y. Rajpure. Journal of Analytical and Applied Pyrolysis, 112 (2015) 214-220. https://dx.doi.org/10.1016/j.jaap.2015.01.024

138.	Fabrication of ZnFe ₂ O ₄ films and its application in photoelectrocatalytic degradation of salicylic acid S.S. Kumbhar, M.A. Mahadik, S.S. Shinde, K.Y. Rajpure, C.H. Bhosale. Journal of Photochemistry and Photobiology B: Biology, 142 (2015) 118-123. https://dx.doi.org/10.1016/j.jphotobiol.2014.12.002
139.	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, C.H. Bhosale. Materials Research Bulletin, 67 (2015) 47-54. https://dx.doi.org/10.1016/j.materresbull.2015.02.056
140.	Structural and electrical properties of barium titanate (BaTiO ₃) thin films obtained by spray pyrolysis method S.S. Kumbhar, M.A. Mahadik, P.K. Chougule, V.S. Mohite, Y.M. Hunge, K.Y. Rajpure, A.V. Moholkar, C.H. Bhosale. Materials Science- Poland, 33 (4) (2015) 852-861. https://sciencedirect.com/article/10.1515/msp-2015-0107
141.	Photoelectrocatalytic degradation of benzoic acid using sprayed TiO ₂ thin films V.S. Mohite, M.A. Mahadik, S.S. Kumbhar, V.P. Kothavale, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale. Ceramics International, 41 (2015) 2202-2208. https://dx.doi.org/10.1016/j.ceramint.2014.10.020
142.	Semiconducting properties of aluminum-doped ZnO thin films grown by spray pyrolysis technique M. A. Mahadik, Y.M. Hunge, S.S. Shinde, K.Y. Rajpure, C.H. Bhosale. Journal of Semiconductors, 36 (2015) 033002. https://dx.doi.org/10.1088/1674-4926/36/3/033002
143.	Effect of substrate temperature on the properties of sprayed WO ₃ thin films using peroxotungstic acid and ammonium tungstate: A comparative study V.V. Ganbavle, J.H. Kim, K.Y. Rajpure. Journal of Electronic Materials, 44 (2015) 874-885. https://dx.doi.org/10.1007/s11664-014-3618-z
144.	The effect of Co substitution on the structural and magnetic properties of lithium ferrite synthesized by an autocombustion method V. S. Sawant, K.Y. Rajpure. Journal of Magnetism and Magnetic Materials, 382 (2015) 152-157. https://dx.doi.org/10.1016/j.jmmm.2015.01.064
145.	Studies on structural and electrical properties of Li _{0.5-0.5x} Co _x Fe _{2.5-0.5x} O ₄ (0 ≤ x ≤ 0.6) spinel ferrite V.S. Sawant, A.A. Bagade, K.Y. Rajpure. Physica B: Condensed Matter, 474 (2015) 47-52. https://dx.doi.org/10.1016/j.physb.2015.06.005
146.	Distribution of cations in Co _{1-x} Mn _x Fe ₂ O ₄ using XRD, magnetization and Mössbauer spectroscopy S.P. Yadav, S.S. Shinde, P. Bhatt, S.S. Meena, K.Y. Rajpure.

	Journal of Alloys and Compounds, 646 (2015) 550-556. https://dx.doi.org/10.1016/j.jallcom.2015.05.270
147.	Studies on NO ₂ gas sensing properties of sprayed Co _{1-x} Mn _x Fe ₂ O ₄ (0 ≤ x ≤ 0.5) spinel ferrite thin films A. A. Bagade, K.Y. Rajpure . Ceramics International, 41 (2015) 7394-7401. https://dx.doi.org/10.1016/j.ceramint.2015.02.051
148.	Oxidative degradation of salicylic acid by sprayed WO ₃ photocatalyst S.V. Mohite, K.Y. Rajpure. Materials Science and Engineering: B, 200 (2015) 78-83. https://dx.doi.org/10.1016/j.mseb.2015.06.009
149.	Nitrogen dioxide sensing properties of sprayed tungsten oxide thin film sensor: Effect of film thickness V.V. Ganbavle, S.V. Mohite, G.L. Agawane, J.H. Kim, K.Y. Rajpure. Journal of colloid and interface science, 451 (2015) 245-254. https://dx.doi.org/10.1016/j.jcis.2015.04.001
150.	Effect of the buffer layer on the metal-semiconductor-metal UV photodetector based on Al-doped and undoped ZnO thin films with different device structures S.I. Inamdar, V.V. Ganbavle, S.K. Shaikh, K.Y. Rajpure. Physica status solidi (a), 212 (8) (2015) 1704-1712. https://dx.doi.org/10.1002/pssa.201431850
151.	Photoelectrocatalytic degradation of methyl red using sprayed WO ₃ thin films under visible light irradiation Y.M. Hunge, V.S. Mohite, S.S. Kumbhar, K.Y. Rajpure, A.V. Moholkar, C.H. Bhosale. Journal of Materials Science: Materials in Electronic, 26 (2015) 8404-8412. https://dx.doi.org/10.1007/s10854-015-3508-z
152.	Development of Ag/WO ₃ /ITO thin film memristor using spray pyrolysis method T. D. Dongale, S. V. Mohite, A. A. Bagade, P. K. Gaikwad, P. S. Patil, R. K. Kamat, K. Y. Rajpure. Electronic Materials Letters, 11(6) (2015) 944-948. https://doi.org/10.1007/s13391-015-4180-4
153.	Physicochemical properties of sprayed V ₂ O ₅ thin films: Effect of substrate temperature A.A. Mane, V.V. Ganbavle, M.A. Gaikwad, S.S. Nikam, K.Y. Rajpure, A.V. Moholkar. Journal of Analytical and Applied Pyrolysis, 115 (2015) 57-65. https://doi.org/10.1016/j.jaap.2015.06.017
154.	Visible light catalysis of methyl orange using nanostructured WO ₃ thin films Y.M. Hunge, M.A. Mahadik, S. S. Kumbhar, V.S. Mohite, K. Y. Rajpure, N.G. Deshpande, A.V. Moholkar, C.H. Bhosale. Ceramics International, 42 (1) (2016) 789-798. https://doi.org/10.1016/j.ceramint.2015.08.178
155.	Multifunctional zinc oxide thin films for high-performance UV photodetectors and nitrogen dioxide gas sensors

	S. K. Shaikh, V.V. Ganbavle, S.I Inamdar, K.Y. Rajpure. RSC Advances, 6 (31) (2016) 25641-25650. https://doi.org/10.1039/C6RA01750A
156.	Investigating the Temperature Effects on ZnO, TiO₂, WO₃ and HfO₂ based Resistive Random Access Memory (RRAM) Devices T. D. Dongale, K.V. Khot, S.V. Mohite, S.S. Khandagale, S.S. Shinde, V.L. Patil, S.A. Vanalkar, A.V. Moholkar, K.Y. Rajpure, P.N. Bhosale, P.S. Patil, P.K. Gaikwad, R.K. Kamat. Journal of Nano-and Electronic Physics, 8 (2016) 040301-040304. https://doi.org/10.21272/jnep.8(4(1)).04030
157.	Solar photoelectrocatalytic activities of rhodamine-B using sprayed WO₃ photoelectrode S.V. Mohite, V.V. Ganbavle, K.Y. Rajpure. Journal of Alloys and Compounds, 655 (2016) 106-113. https://dx.doi.org/10.1016/j.jallcom.2015.09.154
158.	Photoelectrocatalytic degradation of methyl blue using sprayed WO₃ thin films Y.M. Hunge, M.A. Mahadik, V.S. Mohite, S.S. Kumbhar, N.G. Deshpande, K.Y. Rajpure, A.V. Moholkar, P.S. Patil, C.H. Bhosale. Journal of Materials Science: Materials in Electronics, 27 (2016) 1629-1635. https://dx.doi.org/10.1007/s10854-015-3934-y
159.	Development of CoFe₂O₄ thin films for nitrogen dioxide sensing at moderate operating temperature A.A. Bagade, K.Y. Rajpure. Journal of Alloys and Compounds, 657 (2016) 414-421. https://dx.doi.org/10.1016/j.jallcom.2015.10.115
160.	Synthesis of fast response, highly sensitive and selective Ni:ZnO based NO₂ sensor V.V. Ganbavle, S.I. Inamdar, G.L. Agawane, J.H. Kim, K.Y. Rajpure. Chemical Engineering Journal, 286 (2016) 36-47. https://dx.doi.org/10.1016/j.cej.2015.10.052
161.	Fabrication of Ni_{0.4}Zn_{0.6}Fe₂O₄–BaTiO₃ bilayered thin films obtained by spray pyrolysis method for magnetoelectric (ME) effect measurement S.S. Kumbhar, M.A. Mahadik, V.S. Mohite, Y.M. Hunge, P.K. Chougule, K.Y. Rajpure, C.H. Bhosale. Journal of Materials Science: Materials in Electronics, 27 (2016) 3799-3811. https://dx.doi.org/10.1007/s10854-015-4225-3
162.	Chemical bath deposited ZnO thin film based UV photoconductive detector S.K. Shaikh, S.I. Inamdar, V.V. Ganbavle, K.Y. Rajpure. Journal of Alloys and Compounds, 664 (2016) 242-249. https://dx.doi.org/10.1016/j.jallcom.2015.12.226
163.	Compositional variation of structural, electrical and magnetic properties of Dy substituted Ni–Co spinel ferrite A.A. Kadam, K.Y. Rajpure. Journal of Materials Science: Materials in Electronics, 27 (10) (2016) 10484-10496. https://doi.org/10.1007/s10854-016-5157-2

164.	Photoelectrocatalytic degradation of benzoic acid using immobilized tungsten trioxide photocatalyst S.V. Mohite, V.V. Ganbavle, V.V. Patil, K.Y. Rajpure. Materials Chemistry and Physics, 183 (2016) 439-446. https://doi.org/10.1016/j.matchemphys.2016.08.051
165.	Synthesis and characterizations of zinc stannate thin films prepared by spray pyrolysis technique M.A. Patil, S.H. Mujawar, V.V. Ganbavle, K.Y. Rajpure, H.P. Deshmukh. Journal of Materials Science: Materials in Electronics, 27 (2016) 12323-12328. https://doi.org/10.1007/s10854-016-4801-1
166.	Magnetoelectric coupling in metglas/BaTiO₃/metglas lead-free magnetoelectric composites S.D. Patil, K.Y. Rajpure, A.M. Shaikh. Journal of Materials Science and Chemical Engineering, 4 (8) (2016) 1-7. http://dx.doi.org/10.4236/msce.2016.48001
167.	Enhanced magnetoelectric effect in metglas/K_{0.5}Na_{0.5}NbO₃/ metglas lead-free ME laminates S.D. Patil, S.S. Patil, V.G. Deonikar, K.Y. Rajpure, A.M. Shaikh. Functional Materials Letters, 10 (02) (2017) 1650076 https://doi.org/10.1142/S1793604716500764
168.	Photoelectrocatalytic activity of immobilized Yb doped WO₃ photocatalyst for degradation of methyl orange dye S.V. Mohite, V.V. Ganbavle, K.Y. Rajpure. Journal of Energy Chemistry, 26 (3) (2017) 440-447. https://doi.org/10.1016/j.jechem.2017.01.001
169.	Assessment of structural, morphological, magnetic and gas sensing properties of CoFe₂O₄ thin films A. A. Bagade, V.V. Ganbavle, S.V. Mohite, T.D. Dongale, B.B. Sinha, K.Y. Rajpure. Journal of Colloid and Interface Science 497 (2017) 181-192. https://doi.org/10.1016/j.jcis.2017.02.067
170.	Photoelectrochemical performance and photoelectrocatalytic degradation of organic compounds using Ga:WO₃ thin films S.V. Mohite, V.V. Ganbavle, K.Y. Rajpure. Journal of Photochemistry and Photobiology A: Chemistry, 344 (2017) 56-63. https://doi.org/10.1016/j.jphotochem.2017.04.032
171.	Photoelectrochemical and photocatalytic activities of bilayered TiO₂/Ga:WO₃ photoelectrode by spray pyrolysis technique S.V. Mohite, V.V. Ganbavle, K.Y. Rajpure. Materials Research Bulletin, 95 (2017) 491-496. https://doi.org/10.1016/j.materresbull.2017.06.043
172.	Bio-mimicking the synaptic weights, analog memory, and forgetting effect using spray deposited WO₃ memristor device T.D. Dongale, S.V. Mohite, A.A. Bagade, R.K. Kamat, K.Y. Rajpure. Microelectronic Engineering, 183-184 (2017) 12-18. https://doi.org/10.1016/j.mee.2017.10.003

173.	Chemical synthesis of pinecone like ZnO films for UV photodetector applications S.K. Shaikh, V.V. Ganbavle, S.V. Mohite, K.Y. Rajpure. Thin Solid Films, 642 (2017) 232-240. https://doi.org/10.1016/j.tsf.2017.09.043
174.	Effect of write voltage and frequency on the reliability aspects of memristor-based RRAM T.D. Dongale, K.V. Khot, S.V. Mohite, N.D. Desai, S.S. Shinde, V.L. Patil, S.A. Vanalkar, A.V. Moholkar, K.Y. Rajpure, P.N. Bhosale, P.S. Patil, P.K. Gaikwad, R.K. Kamat. International Nano Letters, 7 (2017) 209-216. https://doi.org/10.1007/s40089-017-0217-z
175.	Mimicking the synaptic weights and human forgetting curve using hydrothermally grown nanostructured CuO memristor device T.D. Dongale, P.S. Pawar, R.S. Tikke, N.B. Mullani, V.B. Patil, A.M. Teli, K.V. Khot, S.V. Mohite, A.A. Bagade, V.S. Kumbhar, K.Y. Rajpure, P.N. Bhosale, R.K. Kamat, P.S. Patil. Journal of nanoscience and nanotechnology, 18(2) (2018) 984-991. https://doi.org/10.1166/jnn.2018.14264
176.	Bipolar resistive switching with coexistence of mem-elements in the spray deposited CoFe ₂ O ₄ thin film T.D. Dongale, A.A. Bagade, S.V. Mohite, A.D. Rananavare, M.K. Orlowski, R.K. Kamat, K.Y. Rajpure. Journal of Materials Science: Materials in Electronics, 29 (4) (2018) 3231-3238. https://doi.org/10.1007/s10854-017-8258-7
177.	Spray deposited Fe ₂ O ₃ and stratified Fe ₂ O ₃ /ZnO novel photoelectrode for photoelectrocatalytic degradation of benzoic acid under solar light illumination R .D. Suryavanshi, K.Y. Rajpure. Journal of Photochemistry and Photobiology A: Chemistry, 357 (2018) 72-80. https://doi.org/10.1016/j.jphotochem.2018.02.008
178.	Nanocrystalline immobilised ZnO photocatalyst for degradation of benzoic acid and methyl blue dye R.D. Suryavanshi, S.V. Mohite, A.A. Bagade, S.K. Shaikh, J.B. Thorat, K.Y. Rajpure. Materials Research Bulletin, 101 (2018) 324-333. https://doi.org/10.1016/j.materresbull.2018.01.042
179.	Photoelectrocatalytic activity of immobilized Fe ₂ O ₃ photoelectrode for degradation of salicylic acid and methyl orange dye under visible light illumination R.D. Suryavanshi, S.V. Mohite, A.A. Bagade, K.Y. Rajpure. Ionics, 24 (6) (2018) 1841-1853. https://doi.org/10.1007/s11581-017-2340-2
180.	Nanocrystalline Bi ₂ Te ₃ thin films synthesized by electrodeposition method for photoelectrochemical application J.B. Thorat, S.V. Mohite, A.A. Bagade, T.J. Shinde, V.J. Fulari, K.Y. Rajpure, N.S. Shinde.

	Materials Science in Semiconductor Processing, 79 (2018) 119-126. https://doi.org/10.1016/j.mssp.2018.02.002
181.	ZnO nanorod based highly selective visible blind ultra-violet photodetector and highly sensitive NO ₂ gas sensor S. K. Shaikh, V.V. Ganbavale, S.V. Mohite, U.M. Patil, K.Y. Rajpure. Superlattices and Microstructures, 120 (2018) 170-186. https://doi.org/10.1016/j.spmi.2018.05.021
182.	Spray deposited Fe ₂ O ₃ photoelectrode for degradation of benzoic acid and methyl blue dye under solar radiation R. D. Suryavanshi, S.V. Mohite, S.K. Shaikh, J.B. Thorat, K.Y. Rajpure. Journal of Materials Science: Materials in Electronics, 29 (2018) 20875-20884. https://dx.doi.org/10.1007/s10854-018-0230-7
183.	Electrochemical and surface deformation studies on electrodeposited nanostructured Bi ₂ Te ₃ thin films J. B. Thorat, S.V. Mohite, S.B. Madake, R.D. Suryavanshi, K.Y. Rajpure, T.J. Shinde, V. J. Fulari, N.S. Shinde. Optics and Laser Technology, 113 (2019) 384-393. https://doi.org/10.1016/j.optlastec.2019.01.008
184.	Photoelectrocatalytic activity of spray deposited Fe ₂ O ₃ /ZnO photoelectrode for degradation of salicylic acid and methyl orange dye under solar radiation R.D. Suryavanshi, S.V. Mohite, A.A. Bagade, K.Y. Rajpure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 248 (2019) 114386. https://doi.org/10.1016/j.mseb.2019.114386
185.	Effect of deposition parameters on spray pyrolysis synthesized CuO nanoparticle thin films for higher supercapacitor performance S.K. Shinde, S.M. Mohite, A.A. Kadam, H .M. Yadav, G.S. Ghodake, K.Y. Rajpure, D.S. Lee, D.Y. Kim. Journal of Electroanalytical Chemistry, 850 (2019) 113433. https://doi.org/10.1016/j.jelechem.2019.113433
186.	Synergetic effect of thermal and electromagnetic energy on electrical properties of zinc ferrite thin film S. B. Madake, K.Y. Rajpure. Materials Today Communications, 21 (2019) 100641. https://doi.org/10.1016/j.mtcomm.2019.100641
187.	Hydrothermally-grown TiO ₂ thin film-based metal–semiconductor–metal UV photodetector S. M. Kumbhar, S. K. Shaikh, K. Y. Rajpure. Journal of Electronic Materials, 49(1) (2020) 499-509. https://doi.org/10.1007/s11664-019-07706-5
188.	Fast response and highly selective nitrogen dioxide gas sensor based on Zinc Stannate thin films M. A. Patil, V. V. Ganbavle, K. Y. Rajpure, H.P. Deshmukh, S. H. Mujawar. Materials Science for Energy Technologies, 3 (2020) 36-42. https://doi.org/10.1016/j.mset.2019.11.002

189.	Dip coated TiO ₂ based metal-semiconductor-metal ultraviolet photodetector for UV A monitoring S. M. Kumbhar, S.S.Shevate, A.R. Patil, S.K. Shaikh, K.Y. Rajpure. Superlattices and Microstructures, 141 (2020) 106490. https://doi.org/10.1016/j.spmi.2020.106490
190.	Thin film photocatalysis for environmental remediation: A status review R.S. Pedanekar, S.K. Shaikh, K.Y. Rajpure. Current Applied Physics, 20(8) (2020) 931-952. https://doi.org/10.1016/j.cap.2020.04.006
191.	Porogen induced formation of mesoporous zinc ferrite thin films and their chemiresistive properties S.B. Madake, M.R. Hattali, K.Y. Rajpure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 263 (2021) 114867. https://doi.org/10.1016/j.mseb.2020.114867
192.	Chemiresistive gas sensing properties of copper substituted zinc ferrite thin films deposited by spray pyrolysis S.B. Madake, M.R. Hattali, J.B. Thorat, R.S Pedanekar, K.Y. Rajpure. Journal of Electronic Materials, 50 (4) (2021) 2460-2465. https://doi.org/10.1007/s11664-021-08783-1
193.	Enhanced photoelectrocatalytic degradation activity of titanium dioxide photoelectrode: effect of film thickness N.A. Narewadikar, R.D.Suryavanshi, K.Y. Rajpure. Colloid Journal, 83 (1) (2021) 107-115. https://doi.org/10.1134/S1061933X21010099
194.	Bipolar resistive switching and memristive properties of sprayed deposited Bi ₂ WO ₆ thin films A.R. Patil, T.D. Dongale, S.S. Nirmale, R.K. Kamat, K.Y. Rajpure. Materials Today Communications, 28 (2021) 102621. https://doi.org/10.1016/j.mtcomm.2021.102621
195.	Dielectric and magneto-electric behavior of (x) Co _{0.8} Mn _{0.2} Fe ₂ O ₄ and (1-x) PbZr _{0.52} Ti _{0.48} O ₃ composites S.P. Yadav, K.Y. Rajpure, R. Urkude, Y.M. Hunge, K.V. Chandekar. Physica B: Condensed Matter, 617 (2021) 413118. https://doi.org/10.1016/j.physb.2021.413118
196.	Spray deposited multimetal Cu-Ni-Zn ferrite for gas sensing application S.B. Madake, J.B. Thorat, K.Y. Rajpure. Sensors and Actuators, A: Physical, 331 (2021) 112919. https://doi.org/10.1016/j.sna.2021.112919
197.	Spray pyrolysis deposited iron tungstate memristive device for artificial synapse application, A. R. Patil, T. D. Dongale, R. K. Kamat, K. Y. Rajpure, Materials Today Communications, 29 (2021) 102900. https://doi.org/10.1016/j.mtcomm.2021.102900

198.	Study on effect of deposition temperature on photoelectrocatalytic performance of immobilized TiO ₂ N.A. Narewadikar, K.Y. Rajpure. Chemical Physics Letters, 787 (2022) 139279. https://doi.org/10.1016/j.cplett.2021.139279
199.	Recent advancement in doped titanium dioxide (TiO ₂) nanostructures for photocatalytic dye degradation N.A. Narewadikar, K.Y. Rajpure. Nanobiotechnology reports, 17 (2022) 39-58. https://doi.org/10.1134/S2635167622010104
200.	Photoelectrocatalytic degradation of Rhodamine B by spray deposited Bi ₂ WO ₆ photoelectrode under solar radiation R.S. Pedanekar, S.B. Madake, N.A. Narewadikar, S.V. Mohite, A.R. Patil, S.M. Kumbhar, K.Y. Rajpure. Materials Research Bulletin, 147 (2022) 111639. https://doi.org/10.1016/j.materresbull.2021.111639
201.	The influence of nickel substitution on the structural and gas sensing properties of sprayed ZnFe ₂ O ₄ thin films S. B. Madake, A. R. Patil, R. S. Pedanekar, N. A. Narewadikar, J. B. Thorat, K. Y. Rajpure. Journal of Materials Science: Materials in Electronics, 33 (2022) 6273-6282. https://doi.org/10.1007/s10854-022-07802-z
202.	The structural, electric and dielectric properties of Ni _{0.7} Cd _{0.3} Nd _x Fe _{2-x} O ₄ (0 ≤ x ≤ 0.03) ferrite prepared via oxalate co-precipitation route S.S. Jadhav, A. A. Bagade, T. J. Shinde, K. Y. Rajpure. Iranian Journal of Materials Science and Engineering, 19 (1) (2022) 1-10. http://dx.doi.org/10.22068/ijmse.2294
203.	Sunlight assisted novel spray deposited Bi ₂ WO ₆ photoelectrode for degradation of organic pollutants R.D. Suryawanshi, P.V. Babar, N.A. Narewadikar, K. Y. Rajpure. Journal of physics and chemistry of solids, 168 (2022) 10786. https://doi.org/10.1016/j.jpcs.2022.110786
204.	Spray deposited zinc tungstate thin film for non-volatile memory application. A.R. Patil, T.D. Dongale, R.K. Kamat, K. Y. Rajpure. Materials Letters, 322 (2022) 132494. https://doi.org/10.1016/j.matlet.2022.132494
205.	Photoelectrocatalytic activity of methylene blue using chemically sprayed Bi ₂ WO ₆ photoanode under natural sunlight R.S. Pedanekar, S.V. Mohite, S.B. Madake, Y. Kim, J.L. Gunjekar, K. Y. Rajpure. Journal of Alloys and Compounds, 942 (2023) 168866. https://doi.org/10.1016/j.jallcom.2023.168866
206.	Spray deposited yttrium incorporated TiO ₂ photoelectrode for efficient photoelectrocatalytic degradation of organic pollutants N.A. Narewadikar, R. S. Pednekar, V. G. Parale, H. H. Park, K. Y. Rajpure.

	Journal of Rare Earth, 41 (2023) 1929-1937. https://doi.org/10.1016/j.jre.2022.11.013
207.	Binary Metal Oxide-based Resistive Switching Memory Devices: A Status Review A.R. Patil, T.D. Dongale, R.K. Kamat, K.Y. Rajpure. Materials Today Communications, 34 (2023) 105356. https://doi.org/10.1016/j.mtcomm.2023.105356
208.	Sprayed FeWO ₄ thin film-based memristive device with negative differential resistance effect for non-volatile memory and synaptic learning applications. A. R. Patil, T. D. Dongale, L. D. Namade, S. V. Mohite, Y. Kim, S. S. Sutar, R. K. Kamat, K. Y. Rajpure. Journal of Colloid and Interface Science, 642 (2023) 540-553 https://doi.org/10.1016/j.jcis.2023.03.189
209.	In-situ synthesized oxygen vacancy filled ZnS/V ₀ -ZnO heterojunction photocatalysis for efficient H ₂ production S. R. Jadhav, S. V. Mohite, C. Lee, J. Bae, R. S. Pedaneekar, Y. Kim, K. Y. Rajpure. Sustainable materials and technologies, 38 (2023) e00731. https://doi.org/10.1016/j.susmat.2023.e00731
210.	Synergistic effects of Pd decoration and substrates on the NO ₂ sensing performance of sprayed WO ₃ thin films V.V. Ganbavle, S.K. Shaikh, S.V. Mohite, S.I. Inamdar, A.A. Bagade, A. Patil, K.Y. Rajpure. Chemical Physics Letters, 814 (2023) 140327 https://doi.org/10.1016/j.cplett.2023.140327
211.	Crafting defective ZnO nanoparticles: A green synthesis for enhanced photocatalytic degradation of organic pollutants S. R. Jadhav, S. V. Mohite, K. C. An, D. H. Jang, K. B. Erande, Y. Kim, K. Y. Rajpure. Ceramics International, 50 (13) (2024) 22783-22794. https://doi.org/10.1016/j.ceramint.2024.03.381
212.	Exploring bipolar resistive switching behavior of sprayed BaTiO ₃ thin films for nonvolatile memory application L. D. Namade, A. R. Patil, S. R. Jadhav, T. D. Dongale, K. Y. Rajpure. Colloids and surfaces A : Physicochemical and Engineering aspects, 692 (2024) 133902. https://doi.org/10.1016/j.colsurfa.2024.133902
213.	Multilevel resistive switching in hydrothermally synthesized FeWO ₄ thin film-based memristive device for non-volatile memory application A. R. Patil, T. D. Dongale, R. S. Pedaneekar, S. S. Sutar, R. K. Kamat, K.Y. Rajpure Journal of Colloid and Interface Science 669 (2024) 444–457. https://doi.org/10.1016/j.jcis.2024.04.222

214.	Bio-derived graphitic carbon microspheres: A green approach for high-frequency microwave absorption R.B. Sutar, G.K. Kulkarni, R.R. Koli, S.D. Dhas, N.B. Velhal, K.Y. Rajpure. Diamond and Related Materials, 151 (2025) 111836. https://doi.org/10.1016/j.diamond.2024.111836
215.	Photoelectrocatalytic degradation of organic contaminants by spray coated Z-scheme TiO ₂ /Bi ₂ WO ₆ heterostructure electrode under solar light R.S. Pedanekar, S.V. Mohite, N.A. Narewadikar, S.B. Madake, Y. Kim, S.J. Kim, S.M. Jokare, K.Y. Rajpure. Materials Research Bulletin, 182 (2025) 113127. https://doi.org/10.1016/j.materresbull.2024.113127
216.	Role of annealing temperature in synthesis and characterization of Li _{0.2} Zn _{0.6} Fe _{2.2} O ₄ for photocatalytic dye degradation J.R. Nagarale, R.S. Pedanekar, V.V. Ganbavle, V.G. Parale, K.Y. Rajpure. Journal of Materials Science: Materials in Electronics, 36 (4) (2025) 271. https://doi.org/10.1007/s10854-025-14353-6
217.	Metal tungstates for resistive memory applications: A mini review A.R. Patil, T.D. Dongale, K.Y. Rajpure. Current Applied Physics, 7 (2025) 70-79. https://doi.org/10.1016/j.cap.2024.12.007
218.	Ultraviolet light-driven degradation of organic dyes using SrTiO ₃ photocatalytic nanoparticles L.D. Namade, S.S. Band, P.K. Pawar, A.R. Patil, R.S. Pedanekar, K.G. Managave, V.V. Ganbavle, K. Y. Rajpure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 708 (2025) 135976. https://doi.org/10.1016/j.colsurfa.2024.135976
219.	Capacitance-induced non-zero crossing hysteresis in CoWO ₄ thin-film resistive memory S.V. Patil, A.R. Patil, T.D. Dongale, S.S. Sutar, K.Y. Rajpure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 711 (2025) 136348. https://doi.org/10.1016/j.colsurfa.2025.136348
220.	Fe incorporation and modulation of oxygen vacancies in ZnO nanoparticles for photocatalytic degradation of Rhodamine B S.R. Jadhav, S.V. Mohite, K. An, J. Bae, Y.S. Shim, L.D. Namade, Y. Kim, K.Y. Rajpure. Journal of Industrial and Engineering Chemistry, 146 (2025) 668-683. https://doi.org/10.1016/j.jiec.2024.11.051
221.	Enhancing dye degradation with Li–Ni ferrite: A sol-gel auto-combustion synthesis strategy with temperature tunable properties

	J.R. Nagarale, R.S. Pedanekar, A.R. Patil, V.V. Ganbavle, V.G. Parale, K. Y. Rajpure, S. N. Kulkarni. Materials Chemistry and Physics, 338 (2025)130628. https://doi.org/10.1016/j.matchemphys.2025.130628
222.	Investigating the role of oxygen vacancies in CeO ₂ powder for effective Rhodamine B degradation K.B. Erande, S.V. Mohite, U.V. Nerle, S.R. Jadhav, R.S. Pedanekar, K.Y. Rajpure. Journal of Materials Science: Materials in Electronics, 36 (20) (2025) 1265. https://doi.org/10.1007/s10854-025-15327-4
223.	Efficient Dye Degradation Using Citrated Sol-Gel Synthesized Durable ZnO Nanoparticles K.G. Managave, R.S. Pedanekar, L.D. Namade, K.Y. Rajpure, S.J. Kim, V.V. Ganbavle. Ceramics International, (2025) 54219–54234. https://doi.org/10.1016/j.ceramint.2025.09.161
224.	Energy efficient resistive switching in sprayed Barium titanate thin films with LSTM-based forecasting for memory application L.D. Namade, A.R. Patil, T.D. Dongale, S.S. Sutar, S.B. Kale, K.Y. Rajpure. Materials Today Nano, 32 (2025) 100698. https://doi.org/10.1016/j.mtnano.2025.100698
225.	Resistive switching in spray-pyrolyzed BaWO ₄ thin films A.R. Patil, L.D. Namade, T.D. Dongale, K.Y. Rajpure Colloids and Surfaces A: Physicochemical and Engineering Aspect, 72 (2025) 137352. https://doi.org/10.1016/j.colsurfa.2025.137352
226.	Photocatalytic decontamination of air (degradation of air pollutants, CO ₂ reduction) S.R. Jadhav, S.S. Mohite, K.Y. Rajpure. Advances in photocatalysis: principles, materials and applications, (2025). https://doi.org/10.5281/zenodo.17623303
227.	Hydrothermally synthesised cobalt phosphate hydrate hierarchically for water splitting and supercapacitor P.K. Pawar, L.D. Namade, H.C. Yadav, A.A. Yadav, T.R. Bodake, R. S. Pedanekar, K. Y. Rajpure. Journal of Solid-State Chemistry, 354 (2026) 125751. https://doi.org/10.1016/j.jssc.2025.125751
228	ZnFe ₂ O ₄ Thin-Film SO ₂ Gas Sensor for Industrial Emission Monitoring in Petrochemical Refineries S.B. Madake, S. B. Jadhav, G. Son, J. Park, S. V. Mohite, K.Y. Rajpure, M. Kim International Journal of Energy Research 2026 (1), 9046965.

	https://doi.org/10.1155/er/9046965
229.	Colloidal stability and surface charge-enhanced photocatalytic performance of Li–Ni–Zn ferrite nanostructures J.R. Nagarale, A.R. Patil, R.S. Pedanekar, V.V. Ganbavle, V.G. Parale, R. Patel, K. Y. Rajpure, S. N. Kulkarni Materials. Chemistry and Physics,348 (2026) 131635. https://doi.org/10.1016/j.matchemphys.2025.131635
230.	Morphology-driven photocatalytic performance in chemically deposited thin films: A comprehensive review R. S. Pedanekar, S. V. Mohite, A. S. Jamadar, S. D. Dhas, S. B. Madake, P. K. Pawar, K. Y. Rajpure, S. J. Kim. Applied Materials Today, 48 (2026) 103011. https://doi.org/10.1016/j.matchemphys.2025.131635
231.	Electroforming– Free Resistive Switching in Spray– Deposited SrTiO ₃ Thin Films with Time Series Analysis for Memory Devices L.D. Namade, A.R. Patil, T.R. Bodake, S.V. Mohite, T. D. Dongale, S.S. Sutar Materials Research Bulletin, 114197 https://doi.org/10.1016/j.materresbull.2026.114197
232.	Enhanced asymmetric supercapacitor performance using 2D Ni ₂ P ₂ O ₇ nanoplates with high specific capacitance. A.A. Yadav, L.D. Namade, P.K. Pawar, J.B. Yadav, K.Y. Rajpure. Journal of Energy Storage, 161 (2026) 121717. https://doi.org/10.1016/j.est.2026.121717

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
19.	Structural, optical and photoelectrochemical (PEC) properties of electrodeposited In-Se thin films A.D. Patil, K.Y. Rajpure, C. H. Bhosale
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
21.	Photoelectrochemical investigation on spray deposited n-CdIn ₂ S ₄ thin films K.Y. Rajpure, V.L. Mathe, C.D. Lokhande, C. H. Bhosale
	Paper no.17-21 were presented at DAE- BRNS Symposium on Electro and Magnetoceramics, 18 th -20 th Feb. 1999 Shivaji University, Kolhapur

22.	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
	10 th International Workshop on the Physics of Semiconductor Devices, 14 th -18 th 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
	10 th National convention of Electrochemists (NCE-2001), April 2001 The society for advancement of Electrochemical Science and Technology (SAEST), CECRI, Karaikudi (T.N.)
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
26.	Effect of solution concentration on properties of spray deposited semiconducting CdIn_2S_4 thin films K.Y. Rajpure, R.R. Sawant, C.H. Bhosale
	Paper no. 24-26 were presented at International Conference on Optoelectronic Materials and Thin Films for Advanced Technology Cochin University of Science and Technology, 24 th - 27 th Oct. 2005.
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
28.	Preparation and properties of spray deposited ZnIn_2S_4 thin films S.P. Yadav, P.S. Shinde, K.Y. Rajpure, C.H. Bhosale
	Paper no.27-28 were presented at National Seminar on Materials for Advanced Technologies Department of Physics, Shivaji University, Kolhapur, 23 rd -25 th January, 2006
29.	Photoelectrochemical study of spray deposited ZnIn_2Se_4 thin films S.P. Yadav, P.S. Shinde, K.Y. Rajpure, C.H. Bhosale
	International Symposium on Advances in Electrochemical Science and Technology (ISAEST- 8), 28 th -30 th Nov. 2006 National Institute of Oceanography (NIO), Goa
30.	Structural, optical and electrical properties of spray-deposited F: SnO_2 thin films prepared with different SnCl_4 concentration A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale

	Indian Council of Chemists, ICC-25, 27 th -29 th Dec. 2006, Birla College, Kalyan, Mumbai
31.	Effect of substrate temperature on spray deposited zinc oxide S.S. Shinde, K.Y. Rajpure, C.H. Bhosale
	National Seminar on New Horizons in Physics-2007, (NSNHP-07), 21st and 22 nd Jan. 2007 YCIS, Satara
32.	Effect of SnCl ₄ concentration on the properties of spray-deposited F:SnO ₂ thin films A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale
	National conference on current trends in Materials Research for Advanced Technology (NCMART-2007) Department of Physics, Dr. Babasaheb Ambedkar University, Aurangabad
33.	Synthesis and characterization of Fe doped CdSe thin films from ethylene glycol bath S.M. Pawar, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale
	18 th 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 ₂ Se 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 ₂ O ₄ thin films R.J. Deokate, C.H. Bhosale, K.Y. Rajpure
39.	Comparative study of (photo) electrochemical properties of spray deposited n-CdIn ₂ S ₄ thin films on different substrate R.R. Sawant, P.S. Shinde, K.Y. Rajpure, C.H. Bhosale
40.	Studies on spray deposited Cd ₂ SnO 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), 15 th -17 th NOV. 2007. Department of Physics, Shivaji University, Kolhapur

41.	Liquefied petroleum gas (LPG) sensing characteristic of spray deposited CdIn ₂ O ₄ thin films. R.J. Deokate, C.H. Bhosale, K.Y. Rajpure
	Recent Advances in Sensor and Instrumentation, 15 th -16 th Oct. 2007 Shankarrao Mohite Mahavidyalaya, Akulj
42.	Structural, optical, and electrical properties of chemically sprayed CdIn ₂ O 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 ₂ O ₄ thin films by Spray pyrolysis technique R.J. Deokate, C.H. Bhosale, K.Y. Rajpure
	DAE Solid State Physics symposium, 27 th -31 st 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 _x Zn _{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 ₂ O ₄ thin films R.J. Deokate, C.H. Bhosale, K.Y. Rajpure
	2 nd International Symposium on Transparent Conducting Oxides, 22 nd -26 th Oct. 2008, Conference Greece
48.	Transparent conducting oxide thin films of Cd ₂ SnO 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 ₂ O 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+3x} In _{2-2x} O 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), 9 th -11 th 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), 21 st -23 rd 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
	54 th DAE-SSPS 2009, 14 th -18 th Dec. 2009 M.S. university of Baroda, Vadodara, Gujrat

59.	Synthesis of nanocrystalline Cadmium indiate for gas sensor application R.R. Sawant, S.S. Shinde, K.Y. Rajpure, C.H. Bhosale.
	International Workshop on Nanotechnology and Advanced Functional Materials, 10 th 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), 21 st -23 rd Oct. 2009 D.Y. Patil University, Kolhapur
61.	Studies on magnetic properties of $\text{Co}_{1-x}\text{MnxFe}_2\text{O}_4$ 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), 11 th -14 th 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), 5 th -6 th 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, 23 rd -24 th 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), 13 th -17 th 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 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 (NSPMMDF-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 Mahavidyalaya, Jalgaon, 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