

Please visit my personal website www.rajpure.com

Curriculum Vitae

1. Name: Prof. (Dr). K.Y. Rajpure

Date of Birth: 24/07/1971

Mailing Address: Professor, and Head
Department of Physics,
(Ex. Head USIC, CFC
Ex. Coordinate DST SAIF)
Shivaji University,
Vidyanagar, Kolhapur- 416 004
(M.S.) India.
Phone: +91-0231-2609435
Fax : +91-0231-691533
E-mail: kyr_phy@unishivaji.ac.in,
rajpure@yahoo.com



IRINS Id: 50071,

Scopus Id: 6701673471,

Research Gate (RG) Score: 41.7

Researcher Id: AAG-325702019

ORCID Id: 0000-0002-5063-4197

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

First in Shivaji University, Kolhapur

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

4. Teaching Experience to P.G.:

Sr.	Post	Tenure	Duties
-----	------	--------	--------

No.			
1.	Assistant Professor (Shivaji University)	04/08/1999 to 20/08/2014	Teaching & Research
2	Professor (Shivaji University)	21/08/2014 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: 74

M. Phil and Ph. D. Students

Degree Awarded

Sr. No.	Name	Year	Title of thesis
1	Mr. Deokate R. J. (Ph. D.)	2010	Studies on synthesis and characterization of spray deposited CdIn ₂ O ₄ thin films for gas sensor
2	Mr. Kamble R. C. (Ph. D.)	2011	Studies on development of magneto-electric composite materials for sensor applications
3	Mr. Sawant V. S. (M. Phil.)	2009	Studies on synthesis and characterization of spray deposited Cd ₂ SnO ₄ thin films
4	Mr. Shinde S. S. (Ph. D.)	2012	Studies on synthesis and characterization of transparent conductive oxide thin films
5	Mr. Babar A. R. (Ph.D)	2012	Studies on synthesis and characterization of spray deposited Sb: SnO ₂ thin films for sensor applications
6	Mr. Patil S. K (M.Phil.)	2014	Studies on synthesis and characterization of Ni and Co doped ZnO thin films
7	Mr. Ganbavle V. V. (Ph.D)	2015	Synthesis and characterization of sprayed WO ₃ thin films for gas sensor application
8	Miss. Inamdar S. I. (Ph.D)	2015	Studies on spray deposited ZnO thin films for ultraviolet photodetectors
9	Mr. Yadav S.P. (Ph.D)	2017	Synthesis and characterization of (Co-Mn) ferrite and lead zirconate titanate (PZT) magneto-electric composites
10	Mrs. Kadam A.A. (Ph.D)	2017	Development of multiferroic magnetoelectric composite materials for sensor applications
11	Mr. Sawant V. S. (Ph.D)	2017	Synthesis and characterization of Co substituted Li ferrite for gas sensor application
12	Mr. Bagade A. A. (Ph.D)	2017	Synthesis and characterization of CoFe ₂ O ₄ thin films for gas sensor application
13	Mr. Mohite S. V. (Ph.D)	2017	Studies on photoelectrocatalytic oxidation of organic pollutants using spray deposited WO ₃ based thin films
14	Miss. Shaikh S. K. (Ph.D)	2018	Studies on chemically synthesized ZnO thin films for UV light detection
15	Mrs. Patil S. D.	2018	Studies on synthesis and characterization of Co, Zn

	(Ph.D)		substituted CuCr ₂ Se ₄ magnetic chalcogenides
16	Mr. Suryavanshi R. D. (Ph.D)	2018	Photoelectrocatalytic degradation of organic compounds using spray deposited Fe ₂ O ₃ /ZnO thin films
17	Mr. Madake S. B (Ph.D)	2021	Synthesis and characterization of spray deposited Cu _x Ni _y Zn _{1-x-y} Fe ₂ O ₄ thin films for gas sensing application
18	Miss. Narewadikar N. A. (Ph.D)	2023	Photocatalytic activity of doped TiO ₂ for degradation of organic compounds
19	Miss. Kumbhar S. M. (Ph.D)	2023	Studies on the chemically deposited TiO ₂ thin films and their characterization for uv photodetector and gas sensor applications

Working

Sr. No.	Name	Date of Registration	Title of synopsis
1.	Mr. Patil. A. R (Ph.D)	2018	Studies on memristive properties of iron tungstate thin films deposited by hydrothermal and spray pyrolysis technique
2.	Mr. Pedanekar. R. S (Ph.D)	2018	Photoelectrocatalytic degradation of organic compounds using spray deposited Bi ₂ WO ₆ thin films
3.	Miss. Jadhav S. R. (Ph.D.)	2021	Studies on ZnO based composites for photocatalysis
4.	Mr. Erande K. B. (Ph.D)	2021	Synthesis and characterization of spray deposited CeO ₂ , SrTiO ₃ , CeO ₂ / SrTiO ₃ thin films for Photoelectrocatalytic application
5.	Mr. Namade L. D. (Ph.D)	2021	Studies on memristive properties of spray deposited BaTiO ₃ and SrTiO ₃ thin films

6. Journal Publications: 204

Total citations: 8295 (Scopus)

h-index: 55 (Scopus)

Total citations: 10266 (Google Scholar)

h- index: 61 (Google Scholar)

i-10 index: 176 (Google Scholar)

7. Research Project Work:

Title of Project / Scheme	Funding Agency	Funds received	Date of starting	Date of ending	Status
Studies on synthesis and characterization of large area transparent conductive oxide thin films No.: ERIP/ ER/ 0503504/ M/ 01/ 1007	Defence Research and Development Organization (DRDO)	14.96 Lakhs	1 April 2008	31 March 2011	Completed

Development of cadmium sulphide / polyaniline heterojunction-based room temperature LPG sensor. No.: SR/S2/CMP-82/2006	Department of Science and Technology (DST)	16.70 Lakhs	11 Feb. 2008	10 Feb. 2011	Completed
Photocatalytic degradation of waste water using sprayed tungsten trioxide (WO ₃) thin films No. 41-869/2012 (SR)	University Grants Commission (UGC)	13.01 Lakhs	1 July 2012	30 June 2015	Completed
Development of magnetoelectric multiferroic composite ceramics for electric power generation by cost effective chemical methods No. 03(1284)/13/EMR-II	Council of Scientific and Industrial Research (CSIR)	19.62 Lakhs	9 May 2013	8 May 2016	Completed
Photocatalytic Purification of Wastewater Using Fe ₂ O ₃ /TiO ₂ Nano-composite Thin Films	Department of Science and Technology (DST)	21.67 Lakhs	1 May 2014	30 April 2017	Completed

8. Membership:

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

I] Member of board of studies:

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

II] Member of research committees:

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

III] Member of university committees:

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

IV] Member of university IQAC committees:

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

V] Member of departmental committees:

- Staff Secretary, Since 2000
- Guardian Teacher, M.Sc. – I, Since 2003
- Departmental Placement Officer, Since 2005
- Lab-in-charge, M.Sc.-II, Since 2009
- In-charge, XRD and LCR facility of PIFC
- In-charge Teacher, SEM and surface profiler Facility: 2006–2007
- Member secretary- Curriculum reforms (Physics) under AF
- Member secretary- Committee for preparation of Departmental Profile
- Convener, Alumni meet: 2008, 2014
- Convener, NSAM-2010
- Convener, Parents meet, 2013
- Secretary: COURT– 2006

VI] Member of selection committees:

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

9. Honours/ Awards:

- Government Open Merit Scholarship at B. Sc. degree during 1989-1991.

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

10. Fellowships:

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

11. Patents Filed (Indian)

Sr. No	Title of Patent	Patent number	Date
1	Photoelectrocatalytic behavior of Fe ₂ O ₃ , AlFe ₂ O ₃ and AlFe ₂ O ₃ /TiO ₂ nanoflakes	2181/MUM/2012	30-07-2012
2	Nanostructures of N/ZnO for photoelectrocatalysis of water impurities	2485/MUM/2012	27-08-2012

12. Review articles published

- **Kinetic analysis of heterogenous photocatalysis: Role of Hydroxyl Radicals,** Catalysis Reviews: Science and Engineering, 55 (2013) 1–51
- **Thin film photocatalysis for environmental remediation: A status review** Current Applied Physics 20 (2020) 931–952
- **Binary Metal Oxide-based Resistive Switching Memory Devices: A Status Review** AR Patil, TD Dongale, RK Kamat, KY Rajpure (2023) Materials Today Communications, 105356

13. Books Published

- **Photocatalysis: Ferric Oxide Nanomaterials,**

Lambert Academic Publishing,
ISBN No. 978-3-659-16967-0, 2012, S. S. Shinde, C. H. Bhosale, K. Y. Rajpure

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

14. Invited Talks: 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 (NSPMMD-2011)	Shivaji University Kolhapur	17-18 Feb. 2011
1 st International Conference on Physics of Materials and Materials Based Device Fabrication (ICPMMD-2012)	Shivaji University Kolhapur	17-19 Jan. 2012
National seminar on physics of material and material-based device fabrication (NSPMMD-2013)	Shivaji University Kolhapur	3-4 Jan. 2013
2 nd International Conference on Physics of Materials and Materials Based Device Fabrication (ICPMMD-2014)	Shivaji University Kolhapur	13-15 Jan. 2014

16. Books Chapters

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

- The Influence of Mn Substitution on the Structural, Electrical and Magnetic Properties of CoFe₂O₄ Ferrite, S.P. Yadav, S.S. Shinde, A.A. Kadam, **K.Y. Rajpure**, 323
- Optoelectronic Properties of Spray Deposited Ni-Doped Zinc Oxide Thin Films, S.K. Patil, S.S. Shinde, **K.Y. Rajpure**, 371,

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

- Effect of Dy Doping on Structural, Electrical and Magnetic Properties of Ni-Co Substitutional Spinel Ferrites, A.A. Kadam, **K.Y. Rajpure**, 156
- Physico-Chemical, Electrical and Dielectric Properties of the Spray Deposited WO₃ Films for Gas Sensor Application, V.V. Ganbavle, V.S. Sawant, **K.Y. Rajpure**, 306

Advanced Nano Materials for Industrial Applications, Bloomsbury Publishing India Pvt. Ltd., 2012, **ISBN: 978-93-82563-34-1**

- S.S. Kumbhar, M.A. Mahadik, V.S. Mohite, S.S. Shinde, V.L. Mathe, **K.Y. Rajpure**, C.H. Bhosale
Synthesis and Characterization of Ni-Zn Ferrite Thin Films Prepared by Spray Pyrolysis Technique, 49
- S.I. Inamdar, **K.Y. Rajpure**
Studies on the Synthesis and Characterization of Co-precipitated Nanocrystalline Zn-Pb-O Bulk System, 249

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

17. In charge of various equipment's

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

18. Referee of international journals

- Journal of Alloys and Compounds
- Sensors and Actuators-B
- Materials Science and Engineering-B
- Materials Letters
- Journal of Physical Chemistry-C

- Materials Research Bulletin
- Indian journal of Pure and Applied Physics
- Applied Surface Science
- Solar Energy Materials
- Materials Chemistry and Physics

19. Conference publications: 184 (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

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

List of publications:

Sr.No.	Research Publications Total research papers: 204, Citations: 10,000, h-index: 60, i-10 index: 175
1	Rajpure, K.Y. , Lokhande, C.D., Bhosale, C.H. A comparative study of concentration effect of complexing agent on the properties of spray deposited Sb ₂ S ₃ thin films and precipitated powders (1997) <i>Materials Chemistry and Physics</i> , 51, pp. 252-257
2	Rajpure, K.Y. , Lokhande, C.D., Bhosale, C.H. Effect of the substrate temperature on the properties of spray deposited Sb-Se thin films from non-aqueous medium (1997) <i>Thin Solid Films</i> , 311, pp. 114-118
3	Rajpure, K.Y. , Dhebe, A.L., Lokhande, C.D., Bhosale, C.H. Effect of relative amount of complexing agents on the properties of Sb ₂ S ₃ precipitated powders (1998) <i>Materials Chemistry and Physics</i> , 56, pp. 177-183

4	Rajpure, K.Y. , Bhosale, C.H. Solution concentration dependent properties of spray deposited Sb ₂ S ₃ thin films (1998) <i>Proceedings of SPIE - The International Society for Optical Engineering</i> , 3316, pp. 1233-1236
5	Rajpure, K.Y. , Anarase, P.A., Lokhande, C.D., Bhosale, C.H. Photoelectrochemical studies on electrodeposited Cd-Fe-Se thin films (1999) <i>Physica Status Solidi (A) Applied Research</i> , 172, pp. 415-423
6	Rajpure, K.Y. , Bamane, S.M., Lokhande, C.D., Bhosale, C.H. Structural, optical and (photo)electrochemical properties of electrodeposited Cd-Zn-Se thin films (1999) <i>Indian Journal of Pure and Applied Physics</i> , 37, pp. 413-420
7	Rajpure, K.Y. , Lokhande, C.D., Bhosale, C.H. A comparative study of the properties of spray-deposited Sb ₂ Se ₃ thin films prepared from aqueous and nonaqueous media (1999) <i>Materials Research Bulletin</i> , 34, pp. 1079-1087
8	Killedar, V.V., Rajpure, K.Y. , Patil, P.S., Bhosale, C.H. Transient photoconductivity measurements of spray deposited Sb ₂ S ₃ and Bi ₂ S ₃ thin films from non-aqueous medium (1999) <i>Materials Chemistry and Physics</i> , 59, pp. 237-241
9	Rajpure, K.Y. , Mathe, V.L., Bhosale, C.H. Photoelectrochemical investigation on spray deposited n-CdIn ₂ S ₄ thin films (1999) <i>Bulletin of Materials Science</i> , 22, pp. 927-931
10	Torane, A.P., Rajpure, K.Y. , Bhosale, C.H. Preparation and characterization of electrodeposited Sb ₂ Se ₃ thin films (1999) <i>Materials Chemistry and Physics</i> , 61, pp. 219-222
11	Patil, A.M., Rajpure, K.Y. , Bhosale, C.H. Preparation and characterization spray deposited CdIn ₂ S ₄ thin films (1999) <i>Rayat Shikshan Sanstha's Research Journal</i> , 7, pp. 70-83
12	Rajpure, K.Y. , Bhosale, C.H. 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 (2000) <i>Proceedings of SPIE - The International Society for Optical Engineering</i> , 3975, pp. I/.
13	Rajpure, K.Y. , Bhosale, C.H.

	Effect of Se source on properties of spray deposited Sb_2Se_3 thin films (2000) <i>Materials Chemistry and Physics</i> , 62, pp. 169-174
14	Rajpure, K.Y. , Bhosale, C.H. (Photo)electrochemical investigations on spray deposited n- Sb_2S_3 thin film/polyiodide/C photoelectrochemical solar cells (2000) <i>Materials Chemistry and Physics</i> , 63, pp. 263-269
15	Rajpure, K.Y. , Bhosale, C.H. Study of substrate variation effects on the properties of n- Sb_2S_3 thin film/polyiodide/C photoelectrochemical solar cells (2000) <i>Materials Chemistry and Physics</i> , 64, pp. 14-19
16	Rajpure, K.Y. , Bhosale, C.H. Sb_2S_3 semiconductor-septum rechargeable storage cell (2000) <i>Materials Chemistry and Physics</i> , 64, pp. 70-74
17	Rajpure, K.Y. , Bhosale, C.H. Effect of composition on the structural, optical and electrical properties of sprayed Sb_2S_3 thin films prepared from non-aqueous medium (2000) <i>Journal of Physics and Chemistry of Solids</i> , 61, pp. 561-568
18	Rajpure, K.Y. , Mathe, V.L., Bhosale, C.H. Properties of photoelectrochemical cell formed with sprayed CdIn_2S_4 thin films (2000) <i>Transactions of the SAEST (Society for Advancement of Electrochemical Science and Technology)</i> , 35, pp. 64-68
19	Rajpure, K.Y. , Kusumade, M.N., Neumann-Spallart, M.N., Bhosale, C.H. Effect of Sb doping on properties of conductive spray deposited SnO_2 thin films (2000) <i>Materials Chemistry and Physics</i> , 64, pp. 184-188
20	Rajpure, K.Y. , Bhosale, C.H. Preparation and characterization of spray deposited photoactive Sb_2S_3 and Sb_2Se_3 thin films using aqueous and non-aqueous media (2002) <i>Materials Chemistry and Physics</i> , 73, pp. 6-12
21	Nikale, V.M., Gaikwad, N.S., Rajpure, K.Y. , Bhosale, C.H. Structural and optical properties of spray-deposited CdIn_2Se_4 thin films (2003) <i>Materials Chemistry and Physics</i> , 78, pp. 363-366
22	Bhosale, C.H., Kambale, A.V., Kokate, A.V., Rajpure, K.Y. Structural, optical and electrical properties of chemically sprayed CdO thin films (2005) <i>Materials Science and Engineering B: Solid-State Materials for Advanced</i>

	<i>Technology</i> , 122, pp. 67-71
23	Pawar, S.M., Moholkar, A.V., Rajpure, K.Y. , Bhosale, C.H. Electrosynthesis and characterization of CdSe thin films: Optimization of preparative parameters by photoelectrochemical technique (2006) <i>Journal of Physics and Chemistry of Solids</i> , 67, pp. 2386-2391
24	Pawar, S.M., Moholkar, A.V., Suryavanshi, U.B., Rajpure, K.Y. , Bhosale, C.H. Electrosynthesis and characterization of iron selenide thin films (2007) <i>Solar Energy Materials and Solar Cells</i> , 91, pp. 560-565
25	Sawant, R.R., Rajpure, K.Y. , Bhosale, C.H. Determination of CdIn ₂ S ₄ semiconductor parameters by (photo)electrochemical technique (2007) <i>Physica B: Condensed Matter</i> , 393, pp. 249-254
26	Moholkar, A.V., Pawar, S.M., Rajpure, K.Y. , Bhosale, C.H. Effect of solvent ratio on the properties of highly oriented sprayed fluorine-doped tin oxide thin films (2007) <i>Materials Letters</i> , 61, pp. 3030-3036
27	Pawar, S.M., Moholkar, A.V., Rajpure, K.Y. , Bhosale, C.H. Electrosynthesis and characterization of Fe doped CdSe thin films from ethylene glycol bath (2007) <i>Applied Surface Science</i> , 253, pp. 7313-7317
28	Moholkar, A.V., Pawar, S.M., Rajpure, K.Y. , Patil, P.S., Bhosale, C.H. Properties of highly oriented spray-deposited fluorine-doped tin oxide thin films on glass substrates of different thickness (2007) <i>Journal of Physics and Chemistry of Solids</i> , 68, pp. 1981-1988
29	Pawar, S.M., Moholkar, A.V., Rajpure, K.Y. , Bhosale, C.H. Photoelectrochemical investigations on electrochemically deposited CdSe and Fe-doped CdSe thin films (2008) <i>Solar Energy Materials and Solar Cells</i> , 92, pp. 45-49
30	Deokate, R.J., Pawar, S.M., Moholkar, A.V., Sawant, V.S., Pawar, C.A., Bhosale, C.H., Rajpure, K.Y. Spray deposition of highly transparent fluorine doped cadmium oxide thin films (2008) <i>Applied Surface Science</i> , 254, pp. 2187-2195
31	Dhawale, D.S., More, A.M., Latthe, S.S., Rajpure, K.Y. , Lokhande, C.D. Room temperature synthesis and characterization of CdO nanowires by chemical

	bath deposition (CBD) method (2008) <i>Applied Surface Science</i> , 254, pp. 3269-3273
32	Yadav, S.P., Shinde, P.S., Rajpure, K.Y. , Bhosale, C.H. Photoelectrochemical properties of spray deposited n-ZnIn ₂ Se ₄ thin films (2008) <i>Solar Energy Materials and Solar Cells</i> , 92, pp. 453-456
33	Moholkar, A.V., Pawar, S.M., Rajpure, K.Y. , Bhosale, C.H. Effect of concentration of SnCl ₄ on sprayed fluorine doped tin oxide thin films (2008) <i>Journal of Alloys and Compounds</i> , 455, pp. 440-446
34	Shinde, S.S., Shinde, P.S., Bhosale, C.H., Rajpure, K.Y. Optoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films (2008) <i>Journal of Physics D: Applied Physics</i> , 41, art. no. 105109
35	Yadav, S.P., Shinde, P.S., Rajpure, K.Y. , Bhosale, C.H. Preparation and properties of spray-deposited ZnIn ₂ Se ₄ nanocrystalline thin films (2008) <i>Journal of Physics and Chemistry of Solids</i> , 69, pp. 1747-1752
36	Babar, A.R., Deshamukh, P.R., Deokate, R.J., Haranath, D., Bhosale, C.H., Rajpure, K.Y. Gallium doping in transparent conductive ZnO thin films prepared by chemical spray pyrolysis (2008) <i>Journal of Physics D: Applied Physics</i> , 41, art. o. 135404
37	Pawar, S.M., Moholkar, A.V., Shinde, P.S., Rajpure, K.Y. , Bhosale, C.H. Room temperature electrocrystallization of CdSe thin films from ethylene glycol bath (2008) <i>Journal of Alloys and Compounds</i> , 459, pp. 515-520
38	Shinde, S.S., Shinde, P.S., Pawar, S.M., Moholkar, A.V., Bhosale, C.H., Rajpure, K.Y. Physical properties of transparent and conducting sprayed fluorine doped zinc oxide thin films (2008) <i>Solid State Sciences</i> , 10, pp. 1209-1214
39	Moholkar, A.V., Pawar, S.M., Rajpure, K.Y. , Ganesan, V., Bhosale, C.H. Effect of precursor concentration on the properties of ITO thin films (2008) <i>Journal of Alloys and Compounds</i> , 464, pp. 387-392
40	Moholkar, A.V., Pawar, S.M., Rajpure, K.Y. , Almari, S.N., Patil, P.S., Bhosale, C.H.

	Solvent-dependent growth of sprayed FTO thin films with mat-like morphology (2008) <i>Solar Energy Materials and Solar Cells</i> , 92, pp. 1439-1444
41	Shinde, S.S., Shinde, P.S., Bhosale, C.H., Rajpure, K.Y. Reply to 'comments on "optoelectronic properties of sprayed transparent and conducting indium doped zinc oxide thin films" (2008) <i>Journal of Physics D: Applied Physics</i> , 41, art. no. 228002
42	Gas Sensing of Fluorine Doped Tin Oxide Thin Films Prepared by Spray Pyrolysis Yadav A.A., Masumdar E.U., Moholkar A.V., Rajpure K.Y. , Bhosale C.H. (2008) <i>Sensors & Transducers Journal</i> (ISSN 1726- 5479), 92, pp. 55-60
43	Deokate, R.J., Bhosale, C.H., Rajpure, K.Y. Synthesis and characterization of CdIn ₂ O ₄ thin films by spray pyrolysis technique (2009) <i>Journal of Alloys and Compounds</i> , 473, pp. L20-L24
44	Sawant, V.S., Shinde, S.S., Deokate, R.J., Bhosale, C.H., Chougule, B.K., Rajpure, K.Y. Effect of calcining temperature on electrical and dielectric properties of cadmium stannate (2009) <i>Applied Surface Science</i> , 255, pp. 6675-6678
45	Yadav, A.A., Masumdar, E.U., Moholkar, A.V., Rajpure, K.Y. , Bhosale, C.H. Effect of quantity of spraying solution on the properties of spray deposited fluorine doped tin oxide thin films (2009) <i>Physica B: Condensed Matter</i> , 404, pp. 1874-1877
46	Pawar, S.M., Moholkar, A.V., Rajpure, K.Y. , Kim, J.H., Lokhande, C.D., Bhosale, C.H. Fabrication of Fe:CdSe solar rechargeable (semiconductor-septum) storage cells (2009) <i>Current Applied Physics</i> , 9, pp. 1122-1124
47	Moholkar, A.V., Pawar, S.M., Rajpure, K.Y. , Bhosale, C.H., Kim, J.H. Effect of fluorine doping on highly transparent conductive spray deposited nanocrystalline tin oxide thin films (2009) <i>Applied Surface Science</i> , 255, pp. 9358-9364
48	Kambale, R.C., Shaikh, P.A., Bhosale, C.H., Rajpure, K.Y. , Kolekar, Y.D. The effect of Mn substitution on the magnetic and dielectric properties of cobalt ferrite synthesized by an autocombustion route (2009) <i>Smart Materials and Structures</i> , 18, art. no. 115028
49	Kambale, R.C., Shaikh, P.A., Bhosale, C.H., Rajpure, K.Y. , Kolekar, Y.D.

	Dielectric properties and complex impedance spectroscopy studies of mixed Ni-Co ferrites (2009) <i>Smart Materials and Structures</i> , 18, art. no. 085014
50	Yadav, A.A., Masumdar, E.U., Moholkar, A.V., Neumann-Spallart, M., Rajpure, K.Y. , Bhosale, C.H. Electrical, structural and optical properties of SnO ₂ :F thin films: Effect of the substrate temperature (2009) <i>Journal of Alloys and Compounds</i> , 488, pp. 350-355
51	Deokate R.J., Salunkhe R.R., Rajpure K.Y. Liquefied Petroleum Gas (LPG) Sensing Properties of Nanosized Sprayed CdIn ₂ O ₄ Thin Films (2009) <i>Sensors & Transducers Journal</i> (ISSN 1726- 5479), 104, pp. 87-95
52	Kambale, R.C., Shaikh, P.A., Bhosale, C.H., Rajpure, K.Y. , Kolekar, Y.D. Studies on magnetic, dielectric and magnetoelectric behavior of (x) NiFe _{1.9} Mn _{0.1} O ₄ and (1 - x) BaZr _{0.08} Ti _{0.92} O ₃ magnetoelectric composites (2010) <i>Journal of Alloys and Compounds</i> , 489, pp. 310-315
53	Kambale, R.C., Shaikh, P.A., Harale, N.S., Bilur, V.A., Kolekar, Y.D., Bhosale, C.H., Rajpure, K.Y. Structural and magnetic properties of Co _{1-x} Mn _x Fe ₂ O ₄ (0 ≤ x ≤ 0.4) spinel ferrites synthesized by combustion route (2010) <i>Journal of Alloys and Compounds</i> , 490, pp. 568-571
54	Kambale, R.C., Shaikh, P.A., Kolekar, Y.D., Bhosale, C.H., Rajpure, K.Y. Studies on dielectric and magnetoelectric behavior of 25% CMFO ferrite and 75% BZT ferroelectric multiferroic magnetoelectric composites (2010) <i>Materials Letters</i> , 64, pp. 520-523
55	Moholkar, A.V., Pawar, S.M., Rajpure, K.Y. , Patil, P.S., Bhosale, C.H., Kim, J.H. Temperature-dependent properties of spray-deposited ITO thin films (2010) <i>Journal of Thermal Spray Technology</i> , 19, pp. 531-540
56	Deokate, R.J., Moholkar, A.V., Agawane, G.L., Pawar, S.M., Kim, J.H., Rajpure, K.Y. Studies on the effect of nozzle-to-substrate distance on the structural, electrical and optical properties of spray deposited CdIn ₂ O ₄ thin films (2010) <i>Applied Surface Science</i> , 256, pp. 3522-3530
57	Deokate, R.J., Salunkhe, S.V., Agawane, G.L., Pawar, B.S., Pawar, S.M., Rajpure, K.Y. , Moholkar, A.V., Kim, J.H.

	Structural, optical and electrical properties of chemically sprayed nanosized gallium doped CdO thin films (2010) <i>Journal of Alloys and Compounds</i> , 496, pp. 357-363
58	Sawant, R.R., Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. Influence of substrates on photoelectrochemical performance of sprayed n-CdIn ₂ S ₄ electrodes (2010) <i>Solar Energy</i> , 84, pp. 1208-1215
59	Shinde, S.S., Patil, P.S., Gaikwad, R.S., Mane, R.S., Pawar, B.N., Rajpure, K.Y. Influences in high quality zinc oxide films and their photoelectrochemical performance (2010) <i>Journal of Alloys and Compounds</i> , 503, pp. 416-421
60	Babar, A.R., Shinde, S.S., Moholkar, A.V., Rajpure, K.Y. Electrical and dielectric properties of co-precipitated nanocrystalline tin oxide (2010) <i>Journal of Alloys and Compounds</i> , 505, pp. 743-749
61	Babar, A.R., Shinde, S.S., Moholkar, A.V., Bhosale, C.H., Kim, J.H., Rajpure, K.Y. Structural and optoelectronic properties of antimony incorporated tin oxide thin films (2010) <i>Journal of Alloys and Compounds</i> , 505, pp. 416-422
62	Moholkar, A.V., Agawane, G.L., Sim, K.-U., Kwon, Y.-B., Choi, D.S., Rajpure, K.Y. , Kim, J.H. Temperature dependent structural, luminescent and XPS studies of CdO:Ga thin films deposited by spray pyrolysis (2010) <i>Journal of Alloys and Compounds</i> , 506, pp. 794-799
63	Moholkar, A.V., Agawane, G.L., Sim, K. U., Kwon, Y.-B., Rajpure, K.Y. , Kim, J.H. Influence of deposition temperature on morphological, optical, electrical and opto-electrical properties of highly textured nano-crystalline spray deposited CdO:Ga thin films (2010) <i>Applied Surface Science</i> , 257, pp. 93-101
64	Nikale, V.M., Shinde, S.S., Babar, A.R., Bhosale, C.H., Rajpure, K.Y. (Photo) electrochemical investigations on spray deposited n-CdIn ₂ Se ₄ thin film/polysulphide/c photoelectrochemical solar cell (2010) <i>Applied Solar Energy (English translation of Geliotekhnika)</i> , 46, pp. 194-201

65	Kambale, R.C., Shaikh, P.A., Rajpure, K.Y. , Joshi, P.B., Kolekar, Y.D. Studies on structural and dielectric properties of CMFO ferrite and BZT ferroelectric magnetoelectric composites (2010) <i>Integrated Ferroelectrics</i> , 121, pp. 1-12
66	Shinde, S.S., Rajpure, K.Y. Investigation of structural, morphological, luminescent and thermal properties of combusted aluminium-based iron oxide (2010) <i>Journal of Solid State Chemistry</i> , 183, pp. 2886-2894
67	Shinde, S.S., Shinde, P.S., Sathe, V.G., Barman, S.R., Bhosale, C.H., Rajpure, K.Y. Electron-phonon interaction and size effect study in catalyst based zinc oxide thin films (2010) <i>Journal of Molecular Structure</i> , 984, pp. 186-193
68	Shinde, S.S., Bansode, R.A., Bhosale, C.H., Rajpure, K.Y. Physical properties of hematite α -Fe ₂ O ₃ thin films: Application to photoelectrochemical solar cells (2011) <i>Journal of Semiconductors</i> , 32, art. no. 013001
69	Sawant, R.R., Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. Semiconductor-septum solar rechargeable storage cells (2011) <i>Journal of Alloys and Compounds</i> , 509, pp. 1305-1309
70	Nikale, V.M., Shinde, S.S., Babar, A.R., Bhosale, C.H., Rajpure, K.Y. Photoelectrochemical performance of sprayed <i>n</i> -CdIn ₂ Se ₄ photoanodes (2011) <i>Solar Energy</i> , 85, pp. 325-333
71	Mahadik, D.B., Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. Physical properties of chemical vapour deposited nanostructured carbon thin films (2011) <i>Journal of Alloys and Compounds</i> , 509, pp. 1418-1423
72	Babar, A.R., Shinde, S.S., Moholkar, A.V., Bhosale, C.H., Kim, J.H., Rajpure, K.Y. Sensing properties of sprayed antimony doped tin oxide thin films: Solution molarity (2011) <i>Journal of Alloys and Compounds</i> , 509, pp. 3108-3115
73	Nikale, V.M., Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. Structural, morphological and electrical properties of spray deposited CdIn ₂ Se ₄ thin films (2011) <i>Journal of Alloys and Compounds</i> , 509, pp. 3116-3121

74	Nikale, V.M., Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. Physical properties of spray deposited CdTe thin films: PEC performance (2011) <i>Journal of Semiconductors</i> , 32, art. no. 033001
75	Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. Studies on morphological and electrical properties of Al incorporated combusted iron oxide (2011) <i>Journal of Alloys and Compounds</i> , 509, pp. 3943-3951
76	Shinde, S.S., Meena, S.S., Yusuf, S.M., Rajpure, K.Y. Mössbauer, raman, and magnetoresistance study of aluminum-based iron oxide thin films (2011) <i>Journal of Physical Chemistry C</i> , 115, pp. 3731-3736
77	Shinde, S.S., Moholkar, A.V., Kim, J.H., Rajpure, K.Y. Structural, morphological, luminescent and electronic properties of sprayed aluminium incorporated iron oxide thin films (2011) <i>Surface and Coatings Technology</i> , 205, pp. 3567-3577
78	Shinde, S.S., Rajpure, K.Y. X-ray photoelectron spectroscopic study of catalyst based zinc oxide thin films (2011) <i>Journal of Alloys and Compounds</i> , 509, pp. 4603-4607
79	Babar, A.R., Shinde, S.S., Moholkar, A.V., Bhosale, C.H., Kim, J.H., Rajpure, K.Y. Physical properties of sprayed antimony doped tin oxide thin films: The role of thickness (2011) <i>Journal of Semiconductors</i> , 32 (5), art. no. 053001, . Cited 1 times
80	Shinde S.S., Bhosale C.H., Rajpure K.Y. Photocatalytic activity of sea water using TiO ₂ catalyst under solar light (2011) <i>Journal of Photochemistry and Photobiology B: Biology</i> , 103, pp. 111-117
81	Shinde S.S., Shinde P.S., Bhosale C.H., Rajpure K.Y. Zinc oxide mediated heterogeneous photocatalytic degradation of organic species under solar radiation (2011) <i>Journal of Photochemistry and Photobiology B: Biology</i> , 104, pp. 425-433
82	Shinde, S.S., Rajpure, K.Y. Fast response ultraviolet Ga-doped ZnO based photoconductive detector (2011) <i>Materials Research Bulletin</i> , 46, pp. 1734-1737.

83	Nikale, V.M., Shinde, S.S., Babar, A.R., Bhosale, C.H., Rajpure, K.Y. The n-CdIn ₂ Se ₄ /p-CdTe heterojunction solar cells (2011) <i>Solar Energy</i> , 85, pp. 1336-1342
84	Moholkar, A.V., Shinde, S.S., Babar, A.R., Sim, K.-U., Kwon, Y.-B., Rajpure, K.Y. , Patil, P.S., Bhosale, C.H., Kim, J.H. Development of CZTS thin films solar cells by pulsed laser deposition: Influence of pulse repetition rate (2011) <i>Solar Energy</i> , 85, pp. 1354-1363
85	Moholkar, A.V., Shinde, S.S., Babar, A.R., Sim, K.-U., Lee, H.K., Rajpure, K.Y. , Patil, P.S., Bhosale, C.H., Kim, J.H. Synthesis and characterization of Cu ₂ ZnSnS ₄ thin films grown by PLD: Solar cells (2011) <i>Journal of Alloys and Compounds</i> , 509, pp. 7439-7446
86	Babar, A.R., Kumbhar, S.B., Shinde, S.S., Moholkar, A.V., Kim, J.H., Rajpure, K.Y. Structural, compositional and electrical properties of co-precipitated zinc stannate (2011) <i>Journal of Alloys and Compounds</i> , 509, pp. 7508-7514
87	Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. Photocatalytic oxidation of salicylic acid and 4-chlorophenol in aqueous solutions mediated by modified AlFe ₂ O ₃ catalyst under sun light (2011) <i>Journal of Molecular Catalysis A: Chemical</i> 347, pp. 65-72
88	Shinde, S.S., Rajpure, K.Y. High-performance UV detector based on Ga-doped zinc oxide thin films (2011) <i>Applied Surface Science</i> 257, pp. 9595-9599
89	Babar, A.R., Shinde, S.S., Moholkar, A.V., Bhosale, C.H., Rajpure, K.Y. Structural and optoelectronic properties of sprayed Sb:SnO ₂ thin films: effects of Substrate temperature and Nozzle to substrate distance (2011) <i>Journal of Semiconductors</i> , 32, 102001
90	Kambale R. C., Park Y. A., Hur Y., Rajpure K. Y. , Suryavanshi S. S. Studies on the Dielectric and the Magnetic Properties of Co-Mn Ferrite and BZT Ferroelectric Particulate Magnetoelectric Composites (2011) <i>Journal of the Korean Physical Society</i> , 59, pp. 3385-3390
91	Sapkal R.T., Shinde S.S., Babar, A.R., Jalkute, C.B., Rajpure K.Y. , Sonawane, K.D., Bhosale C.H. Photoelectrocatalytic purification of fecal, tap and E.Coli contained water using ZnO thin films: A comparative study

	(2011) <i>International Journal of Basic and Applied Research</i> , 1, pp. 42-49
92	Studies on dielectric and magnetic properties of Co-Ni-Mn ferrite system Rajpure K.Y. , Chougule P.K., Kambale R.C., Kolekar Y.D., Bhosale C.H. (2011) <i>Materials Science, An Indian journal</i> (ISSN 0974 - 7486), Vol. 7(1),
93	Photoelectrocatalytic hydrolysis of starch by sprayed ZnO thin film Sapkal R.T., Shinde S.S., Sapkal M.R., Babar A.R., Sapkal D.M., Jalkute C.B., Rajpure K.Y. , Patil P.S., Sonawane K.D., Bhosale C.H. (2011) <i>Materials Science, An Indian journal</i> (ISSN 0974 - 7486), Vol. 7(4)
94	Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. N-doped ZnO based fast response ultraviolet photoconductive detector (2012) <i>Solid State Electronics</i> , 68, pp. 22-26
95	Effect of substrate temperature and concentration of zinc acetate on spray deposited Zinc Oxide thin films Sapkal R.T., Shinde S.S., Babar A.R., Rajpure K.Y. , Patil P.S., Bhosale C.H. (2012) <i>Materials Science, An Indian journal</i> (ISSN 0974 - 7486), 8, pp. 60-66
96	Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. Structural, optical, electrical and thermal properties of zinc oxide thin films by chemical spray pyrolysis (2012) <i>Journal of Molecular Structure</i> , 1021, pp. 123-129
97	Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. Photocatalytic degradation of toluene using sprayed N-doped ZnO thin films in aqueous suspension (2012) <i>Journal of Photochemistry and Photobiology B: Biology</i> , 113, pp. 70-77
98	Shinde S.S., Shinde P.S., Sapkal R.T., Oh Y.W., Haranath D., Bhosale C.H., Rajpure K.Y. Photoelectrocatalytic degradation of oxalic acid by spray deposited nanocrystalline zinc oxide thin films (2012) <i>Journal of Alloys and Compounds</i> , 538, pp. 237-243
99	Sapkal R.T., Shinde S.S., Mahadik M.A., Mohite V.S., Waghmode T.R., Govindwar S.P., K.Y. Rajpure , C.H. Bhosale Photoelectrocatalytic decolorization and degradation of textile effluent using ZnO thin films (2012) <i>Journal of Photochemistry and Photobiology B: Biology</i> , 114, pp. 102-107
100	Shinde, S.S., Rajpure, K.Y. Fabrication and performance of N-doped ZnO UV photoconductive detector (2012) <i>Journal of Alloys and Compounds</i> , 522, pp. 118-122

101	Sapkal R.T., Shinde S.S., Waghmode T.R., Govindwar S.P., Rajpure K.Y. , Bhosale C.H. Photo-corrosion inhibition and photoactivity enhancement with tailored zinc oxide thin films (2012) <i>Journal of Photochemistry and Photobiology B: Biology</i> , 110, pp. 15-21
102	Sapkal R.T., Shinde S.S., Babar A.R., Moholkar A.V., Rajpure K.Y. , Bhosale C.H. Structural, Morphological, Optical and Photoluminescence Properties of Ag-Doped Zinc Oxide Thin Films (2012) <i>Mater. Express</i> , 2, pp. 64-70
103	Sapkal R.T., Shinde S.S., Babar A.R., Shinde V.V., Jalkute C.B., Moholkar A.V., Rajpure K.Y. , Sonawane K.D., Patil P.S., Bhosale C.H. Photoelectrocatalytic activity of spray deposited ZnO thin films against E. coli Davis (2012) <i>Materials Research Innovations</i> , 16, pp. 417-424
104	Shinde S.S., Shinde P.S., Sapkal R.T., Oh Y.W., Haranath D., Bhosale C.H., Rajpure K.Y. Photoelectrocatalytic degradation of oxalic acid by spray deposited nanocrystalline zinc oxide thin films (2012) <i>Journal of Alloys and Compounds</i> , 538, pp. 237-243
105	Shinde S.S., Shinde P.S., Oh Y.W., Haranath D., Bhosale C.H., Rajpure K.Y. Investigation of structural, optical and luminescent properties of sprayed N-doped zinc oxide thin films (2012) <i>Journal of Analytical and Applied Pyrolysis</i> 97, pp. 181-188
106	Shinde S.S., Shinde P.S., Oh Y.W., Haranath D., Bhosale C.H., Rajpure K.Y. Structural, optoelectronic, luminescence and thermal properties of Ga-doped zinc oxide thin films (2012) <i>Applied Surface Science</i> , 258, pp. 9969- 9976
107	Moholkar, A.V., Shinde, S.S., Agawane G.L., Jo S.H., Rajpure, K.Y. , Patil, P.S., Bhosale, C.H., Kim, J.H. Composition dependent CZTS thin film solar cells by pulsed laser deposition technique: An attempt to improve the efficiency (2012) <i>Journal of Alloys and Compounds</i> , 544, pp. 145-151
108	Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. Size dependent electron-phonon coupling in N, Li, In, Ga, F and Ag doped ZnO thin films (2012) <i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i> , 98, pp. 453-456
109	Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. Hydroxyl radical's role in the remediation of wastewater (2012) <i>Journal of Photochemistry and Photobiology B: Biology</i> , 116, pp. 66-74
110	Kadam, A.A., Shinde, S.S., Yadav, S.P., Patil, P.S., Rajpure, K.Y.

	Structural, morphological, electrical and magnetic properties of Dy doped Ni–Co substitutional spinel ferrite (2012) <i>Journal of Magnetism and Magnetic Materials</i> , 329, pp. 59-64
111	Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. Oxidative degradation of acid orange 7 using Ag-doped zinc oxide thin films (2012) <i>Journal of Photochemistry and Photobiology B: Biology</i> , 117, pp. 262-268
112	Shinde, S.S., Korade, A.P., Bhosale, C.H., Rajpure, K.Y. Influence of tin doping onto structural, morphological, optoelectronic and impedance properties of sprayed ZnO thin films (2013) <i>Journal of Alloys and Compounds</i> , 551, pp. 688-693
113	Yadav S.P., Shinde S.S., Kadam A.A., Rajpure K.Y. Structural, morphological, dielectrical, magnetic and impedance properties of $\text{Co}_{1-x}\text{Mn}_x\text{Fe}_2\text{O}_4$ (2013) <i>Journal of Alloys and Compounds</i> , 555, pp. 330-334
114	Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. Heterogeneous photocatalytic degradation of water using zinc oxide under solar radiation (2013) <i>Journal of Semiconductors</i> , 34, 4pp
115	Patil S.K., Shinde S.S., Rajpure K.Y. Physical properties of spray deposited Ni doped zinc oxide thin films (2013) <i>Ceramics International</i> , 39, pp. 3901-3907
116	Shinde S.S., Bhosale C.H., Rajpure K.Y. Photoelectrochemical properties of highly mobilized Li-doped ZnO thin films (2013) <i>Journal of Photochemistry and Photobiology B: Biology</i> , 120, pp. 1-9
117	Sapkal R.T., Shinde, S.S., Rajpure, K.Y. , Bhosale, C.H. Photoelectrocatalytic hydrolysis of starch by using sprayed ZnO thin films (2013) <i>Journal of Semiconductors</i> , 34, 053001 (3pp)
118	Shinde S.S., Bhosale C.H., Rajpure K.Y. Kinetic analysis of heterogeneous photocatalysis: Role of hydroxyl radicals (2013) <i>Catalysis Reviews-Science and Engineering</i> , 55, pp. 79-133
119	Mahadik M.A., Shinde S.S., Rajpure K.Y. , Bhosale, C.H. Photocatalytic oxidation of Rhodamine B with ferric oxide thin films under solar illumination (2013) <i>Materials Research Bulletin</i> , 48, pp. 4058-4065

120	Yadav S.P., Shinde S.S., Kadam A.A., Rajpure K.Y. Structural, morphological, dielectrical and magnetic properties of Mn substituted cobalt ferrite (2013) <i>Journal of Semiconductors</i> , 34, art. no. 093002
121	Photoelectrocatalytic oxidation of Rhodamine B with sprayed -Fe ₂ O ₃ photocatalyst Mahadik M.A., Shinde S.S., Mohite V.S., Kumbhar S.S., Rajpure K.Y. , Moholkar A.V., Kim J.H, Bhosale C.H. (2013) <i>Material Express</i> , 3, pp. 247-265
122	Mahadik M.A, Shinde S.S, Mohite V.S, Kumbhar S.S, Moholkar A.V, Rajpure K.Y , Ganesan V, Nayak J, Barman S.R, Bhosale C.H. Visible light catalysis of Rhodamine B using nanostructured Fe ₂ O ₃ , TiO ₂ and TiO ₂ /Fe ₂ O ₃ thin films (2014) <i>Journal of Photochemistry and Photobiology B: Biology</i> , 133, pp. 90-98
123	Mohite S.V., Rajpure K.Y. Synthesis and characterization of Sb doped ZnO thin films for photodetector application (2014) <i>Optical Materials</i> , 36, pp. 833-838
124	Mahadik M.A., Shinde S.S., Mohite V.S., Kumbhar S.S., Rajpure K.Y. , Moholkar A.V., Bhosale C.H. Photoelectrocatalytic Activity of Ferric Oxide Nanocatalyst: A Synergistic Effect of Thickness (2014) <i>Ceramics International</i> , 40, pp. 9463-9471
125	Studies on the synthesis and characterization of co-precipitated nanocrystalline Zn–Pb–O Inamdar S. I, Babar A. R, Shinde S. S, Rajpure K. Y. (2014) <i>Journal of Molecular Structure</i> , 1064, pp. 130-134
126	Inamdar S.I., Rajpure K.Y. High-performance metal–semiconductor–metal UV photodetector based on spray deposited ZnO thin films (2014) <i>Journal of Alloys and Compounds</i> , 595, pp. 55-59
127	Dongale T.D, Shinde S.S, Kamat R.K, Rajpure K.Y. Nanostructured TiO ₂ thin film memristor using hydrothermal process (2014) <i>Journal of Alloys and Compounds</i> , 593, pp. 267-270
128	Kumbhar S.S., Mahadik M.A., Mohite V.S., Rajpure K.Y. , Kim J.H, Moholkar

	A.V., Bhosale C.H. Structural, dielectric and magnetic properties of Ni substituted zinc ferrite (2014) <i>Journal of Magnetism and Magnetic Materials</i> , 363, pp. 114-120
129	Ganbavle V.V, Patil M.A., Deshmukh H.P, Rajpure K.Y. 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 (2014) <i>Journal of Analytical and Applied Pyrolysis</i> , 107, pp. 233-241
130	Ganbavle V.V, Agawane G.L, Moholkar A.V, Kim J.H, Rajpure K.Y. Structural, optical, electrical, and dielectric properties of the spray-deposited WO ₃ thin films (2014) <i>Journal of Materials Engineering and Performance</i> , 23, pp 1204-1213
131	A.A. Bagade, V.V. Ganbavle, and K.Y. Rajpure. Physicochemical Properties of Spray-Deposited CoFe ₂ O ₄ Thin Films (2014) <i>Journal of Materials Engineering and Performance</i> , 23, pp. 2787-2794
132	Mahadik M.A., Shinde S.S., Hunge Y.M., Mohite V.S., Kumbhar S.S., Moholkar A.V., Rajpure K.Y. , Bhosale C.H UV assisted photoelectrocatalytic oxidation of phthalic acid using spray deposited Al doped zinc oxide thin films (2014) <i>Journal of Alloys and Compounds</i> , 611, pp. 446-451
133	Ganbavle V.V, Patil S.K, Inamdar S.I, Shinde S.S, Rajpure K.Y. Effect of Co doping on structural, morphological and LPG sensing properties of nanocrystalline ZnO thin films (2014) <i>Sensors and Actuators A</i> , 216, pp. 328–334
134	Sawant V.S, Bagade A.A, Mohite S.V, Rajpure K.Y. IR absorption spectroscopic study of mixed cobalt substituted lithium ferrites (2014) <i>Physica B: Condensed Matter</i> , 451, pp. 39–42
135	Kumbhar S.S., Mahadik M.A., Mohite V.S., Rajpure K.Y. , Bhosale C.H. Synthesis and characterization of spray deposited Nickel-Zinc ferrite thin films (2014) <i>Energy Procedia</i> , 54, 599-605
136	Shinde S.S., Bhosale C.H., Rajpure K.Y. , Lee J.H. Remediation of wastewater: Role of hydroxyl radicals (2014) <i>Journal of Photochemistry and Photobiology B: Biology</i> , 141, pp. 210-216
137	Inamdar S.I., Ganbavle V.V., Rajpure K.Y.

	ZnO based visible-blind UV photodetector by spray pyrolysis (2014) <i>Superlattices and Microstructures</i> , 76, pp. 253–263
138	Mahadik M.A., Shinde S.S., Pathan H.M., Rajpure K.Y. , Bhosale C.H. Oxidative degradation of industrial wastewater using spray deposited TiO ₂ /Au:Fe ₂ O ₃ bilayered thin films (2014) <i>Journal of Photochemistry and Photobiology B: Biology</i> , 141, pp. 315-324
139	Rajpure, K.Y. Exploring structural and magnetic properties of nanocrystalline iron oxide synthesized by autocombustion method (2015) <i>Superlattices and Microstructures</i> , 77, pp. 181-195
140	Ganbavle, V.V., Mohite, S.V., Kim, J.H., Rajpure, K.Y. Effect of solution concentration on physicochemical and gas sensing properties of sprayed WO ₃ thin films (2015) <i>Current Applied Physics</i> , 15, pp. 84-93
142	Shinde, S.S., Bhosale, C.H., Rajpure, K.Y. Photodegradation of organic pollutants using N-titanium oxide catalyst (2015) <i>Journal of Photochemistry and Photobiology B: Biology</i> , 141, pp. 186-191
143	Mohite, V.S., Mahadik, M.A., Kumbhar, S.S., Kumbhar, Rajpure, K.Y. , Bhosale, C.H. Photoelectrocatalytic degradation of benzoic acid using sprayed TiO ₂ thin films (2015) <i>Ceramics International</i> , 41, pp. 2202-2208
144	Mohite V.S., Mahadik M.A., Kumbhar S.S., Hunge Y.M., Kim J.H., Moholkar A.V., Rajpure K.Y. , Bhosale C.H. Photoelectrocatalytic degradation of benzoic acid using Au doped TiO ₂ thin films (2015) <i>Journal of Photochemistry and Photobiology B: Biology</i> , 142, pp. 204-211
145	Ganbavle V. V., Mohite S. V., Agawane G. L., Kim J. H., Rajpure K. Y. Nitrogen dioxide sensing properties of sprayed tungsten oxide thin film sensor: Effect of film thickness (2015) <i>Journal of Colloid and Interface Science</i> 451 pp. 245–254
146	Inamdar S.I., Ganbavle V.V., Shaikh S.K., Rajpure K.Y. 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 (2015) <i>Physica status solidi (a)</i> , pp. 1-9
147	Sawant V.S., Rajpure K.Y.

	The effect of Co substitution on the structural and magnetic properties of lithium ferrite synthesized by an autocombustion method (2015) <i>Journal of Magnetism and Magnetic Materials</i>, 382, pp. 152-157
148	Bagade A.A., Rajpure K.Y. Studies on NO₂ gas sensing properties of sprayed Co_{1-x}Mn_xFe₂O₄ (0 ≤ x ≤ 0.5) spinel ferrite thin films (2015) <i>Ceramics International</i> 41 pp 7394-7401
149	Mahadik M. A., Hunge Y. M., Shinde S. S., Rajpure K. Y., Bhosale C. H. Semiconducting properties of aluminum doped ZnO thin films grown by spray pyrolysis technique (2015) <i>Journal of Semiconductors</i> 36 pp 033002-6
150	Ganbavle V. V., Kim J. H., Rajpure K.Y. Effect of Substrate Temperature on the Properties of Sprayed WO₃ Thin Films Using Peroxotungstic Acid and Ammonium Tungstate: A Comparative Study (2015) <i>Journal of Electronic Materials</i> 44 pp 874-885
151	Kumbhar S. S., Mahadik M. A., Shinde S. S., Rajpure K. Y., Bhosale C. H. Fabrication of ZnFe₂O₄ films and its application in photoelectrocatalytic degradation of salicylic acid (2015) <i>Journal of Photochemistry and Photobiology B: Biology</i> 142 pp 118-123
152	Babar A.R., Rajpure K.Y. Effect of intermittent time on structural, optoelectronic, luminescence properties of sprayed antimony doped tin oxide thin films (2015) <i>Journal of Analytical and Applied Pyrolysis</i> 112 pp 214-220
153	Kumbhar S.S., Mahadik M.A., Mohite V.S., Hunge Y.M., Rajpure K.Y., Bhosale C. H. Effect of Ni content on the structural, morphological and magnetic properties of spray deposited NiZn ferrite thin films (2015) <i>Materials Research Bulletin</i> 67 pp 47-54
154	Mahadik M.A., Shinde S.S., Kumbhar S.S., Pathan H.M., Rajpure K.Y., Bhosale C.H. Enhanced photocatalytic activity of sprayed Au doped ferric oxide thin films for salicylic acid degradation in aqueous medium (2015) <i>Journal of Photochemistry and Photobiology B: Biology</i>, 142, pp. 43-50
155	Mohite S.V., Rajpure K.Y. Oxidative degradation of salicylic acid by sprayed WO₃ photocatalyst (2015) <i>Materials Science and Engineering: B</i>, 200, pp. 78-83

156	Hunge Y.M., Mohite V.S., Kumbhar S.S, Rajpure K.Y. , Moholkar A.V., Bhosale C.H. Photoelectrocatalytic degradation of methyl red using sprayed WO ₃ thin films under visible light irradiation (2015) <i>Journal of Materials Science: Materials in Electronics</i> , pp. 1-9
157	Yadav S.P., Shinde S.S., Bhatt P., Meena S.S., Rajpure K.Y. Distribution of cations in Co _{1-x} Mn _x Fe ₂ O ₄ using XRD, magnetization and Mossbauer spectroscopy (2015) <i>Journal of Alloys and Compounds</i> , 646, pp. 550-556
158	Shaikh S.K., Ganbavle V.V., Inamdar S.I., Rajpure K.Y. Multifunctional zinc oxide thin films for high-performance UV photodetectors and nitrogen dioxide gas sensors (2016) <i>RSC Advances</i> 6 (31), pp.25641-25650
159	Magnetoelectric Coupling in Metglas/BaTiO ₃ /Metglas Lead-Free Magnetoelectric Composites Patil S.D., Rajpure K.Y. , Shaikh A.M. (2016) <i>Journal of Materials Science and Chemical Engineering</i> 4, pp.1-7
160	Kumbhar, S.S., Mahadik, M.A., Mohite, V.S., Hunge, Y.M., Chougule, P.K., Rajpure, K.Y. , Bhosale, C.H. Fabrication of Ni _{0.4} Zn _{0.6} Fe ₂ O ₄ –BaTiO ₃ bilayered thin films obtained by spray pyrolysis method for magnetoelectric (ME) effect measurement (2016) <i>Journal of Materials Science: Materials in Electronics</i> , Article in Press, pp.1-13
161	Hunge Y. M., Mahadik M. A., Mohite V. S., Kumbhar S. S., Deshpande N. G., Rajpure K. Y. , Moholkar A. V., Patil P. S., Bhosale C. H. Photoelectrocatalytic degradation of methyl blue using sprayed WO ₃ thin films (2016) <i>Journal of Materials Science: Materials in Electronics</i> , 27, pp. 1629-1635
162	Shaikh, S.K., Inamdar, S.I., Ganbavle, V.V., Rajpure, K.Y. Chemical bath deposited ZnO thin film based UV photoconductive detector (2016) <i>Journal of Alloys and Compounds</i> , 664, pp. 242-249
163	Ganbavle V.V., Inamdar S.I., Agawane G.L. Kim J.H., Rajpure K.Y. Synthesis of fast response, highly sensitive and selective Ni:ZnO based NO ₂ sensor (2016) <i>Chemical Engineering Journal</i> , 286, pp. 36-47
164.	Bagade A.A., Rajpure K.Y. Development of CoFe ₂ O ₄ thin films for nitrogen dioxide sensing at moderate operating temperature (2016) <i>Journal of Alloys and Compounds</i> , 657, pp. 414-421
165.	Mohite S.V., Ganbavle V.V., Rajpure K.Y.

	Solar photoelectrocatalytic activities of rhodamine-B using sprayed WO ₃ photoelectrode (2016) <i>Journal of Alloys and Compounds</i> , 655, pp. 106-113
166.	Bagade A.A., Ganbavle V.V., Mohite S.V., Dongale T.D., Sinha B.B., Rajpure K.Y. Assessment of structural, morphological, magnetic and gas sensing properties of CoFe ₂ O ₄ thin films (2017) <i>Journal of Colloid and Interface Science</i> , 497, pp.181-192
167	Mohite S.V., Ganbavle V.V., Rajpure K.Y. Photoelectrochemical performance and photoelectrocatalytic degradation of organic compounds using Ga: WO ₃ thin films (2017) <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 344, pp.56-63
168	Mohite S.V., Ganbavle V.V., Rajpure K.Y. Photoelectrocatalytic activity of immobilized Yb doped WO ₃ photocatalyst for degradation of methyl orange dye (2017) <i>Journal of Energy Chemistry</i> , 26, pp.440-447
169.	Shaikh S. K., Ganbavle V. V., Mohite S. V., Rajpure K. Y. Chemical synthesis of pinecone like ZnO films for UV photodetector applications (2017) <i>Thin Solid Films</i> 642, 232-240
170.	Mohite S. V., Ganbavle V. V., Rajpure K. Y. <u>Photoelectrochemical and photocatalytic activities of bilayered TiO₂/Ga: WO₃ photoelectrode by spray pyrolysis technique</u> (2017) <i>Materials Research Bulletin</i> 95, pp.491-496
171	Dongale T. D., Mohite S.V., Bagade A. A., Kamat R. K., Rajpure K. Y. Bio-mimicking the synaptic weights, analog memory, and forgetting effect using spray deposited WO ₃ memristor device (2017) <i>Microelectronic Engineering</i> 183, pp.12-18
172.	Dongale T. D., Khot K.V., Mohite S.V., Desai N. D., Shinde S. S., Patil V. L., Vanalkar S. A., Moholkar A. V., Rajpure K. Y. , Bhosale P. N., Patil P. S., Gaikwad P. K., Kamat R. K. Effect of write voltage and frequency on the reliability aspects of memristor-based RRAM (2017) <i>International Nano Letters</i> 7 (3), pp.209-216
173.	Patil S. D., Patil S. S., Deonikar V.G., Rajpure K. Y. , Shaikh A. M. <u>Enhanced magnetoelectric effect in Metglas/K 0.5 Na 0.5 NbO₃/metglas lead-free ME laminates</u> (2017) <i>Functional Materials Letters</i> 10 (02), pp.1650076 (5pages)
174.	Dongale T. D., Bagade A. A., Mohite S. V., Rananavare A. D., Orlowski M. K., Kamat R. K., Rajpure K. Y. Bipolar resistive switching with coexistence of mem-elements in the spray deposited CoFe ₂ O ₄ thin film (2018) <i>Journal of Materials Science: Materials in Electronics</i> , 29, pp. 3231–3238
175	Dongale T. D., Pawar P. S., Tikke R. S., Mullani N. B., Patil V. B., Teli A. M., Khot K. V., Mohite S. V., Bagade A. A., Kumbhar V. S., Rajpure K. Y. , Bhosale P. N.,

	Kamat R. K., Patil P. S. <u>Mimicking the synaptic weights and human forgetting curve using hydrothermally grown nanostructured CuO memristor device</u> (2018) <i>Journal of Nanoscience and Nanotechnology</i> 18 (2), pp.984-991
176	Suryavanshi R.D., Rajpure K.Y. 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 (2018) <i>Journal of Photochemistry and Photobiology A: Chemistry</i> 357, pp. 72-80
177	Suryavanshi R.D., Mohite S.V., Bagade A.A., Shaikh S.K., Thorat J.B., Rajpure K.Y. <u>Nanocrystalline immobilised ZnO photocatalyst for degradation of benzoic acid and methyl blue dye</u> (2018) <i>Materials Research Bulletin</i> 101, pp. 324-333
178	Suryavanshi R.D., Mohite S. V., Bagade A. A., Rajpure K. Y. <u>Photoelectrocatalytic activity of immobilized Fe₂O₃ photoelectrode for degradation of salicylic acid and methyl orange dye under visible light illumination</u> (2017) <i>Ionics</i> , pp.1-13
179	Thorat J.B., Mohite S.V., Bagade A.A., Shinde T.J., Fulari V.J., Rajpure K.Y. , Shinde N.S. Nanocrystalline Bi ₂ Te ₃ thin films synthesized by electrodeposition method for photoelectrochemical application (2018) <i>Materials Science in Semiconductor Processing</i> 79, pp.119-126
180	Shaikh S. K., Ganbavale V.V., Mohite S.V., Patil U.M., Rajpure K.Y. ZnO nanorod based highly selective visible blind ultra-violet photodetector and highly sensitive NO ₂ gas sensor (2018) <i>Superlattices and Microstructures</i> 120, pp. 170-186.
181	Thorat, J.B., Mohite, S.V., Madake, S.B., Suryavanshi, R.D., Rajpure, K.Y. , Shinde, T.J., Fulari, V.J., Shinde, N.S. Electrochemical and surface deformation studies on electrodeposited nanostructured Bi ₂ Te ₃ thin films (2019) <i>Optics and Laser Technology</i> 113, pp. 384-393
182	Suryavanshi, R.D., Mohite, S.V., Bagade, A.A., Rajpure, K.Y. Photoelectrocatalytic activity of spray deposited Fe ₂ O ₃ /ZnO photoelectrode for degradation of salicylic acid and methyl orange dye under solar radiation (2019) <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> 248
183	Shinde, S.K., Mohite, S.M., Kadam, A.A., Yadav, H.M., Ghodake, G.S., Rajpure, K.Y. , Lee, D.S., Kim, D.Y. Effect of deposition parameters on spray pyrolysis synthesized CuO nanoparticle thin films for higher supercapacitor performance (2019) <i>Journal of Electroanalytical Chemistry</i> 850
184	Madake, S.B., Rajpure, K.Y. Synergetic effect of thermal and electromagnetic energy on electrical properties of

	zinc ferrite thin film (2019) <i>Materials Today Communications</i> 21
185	Kumbhar, S.M, Shaikh,S.K, Rajpure, K.Y. Hydrothermally grown TiO ₂ thin film-based Metal Semiconductor Metal UV photodetector (2019) <i>Journal of Electronic Materials</i>
186	Kumbhar, S.M.,Shevate, S.S. Patil, A.R., Shaikh, S.K., Rajpure, K.Y Dip coated TiO ₂ based metal-semiconductor-metal ultraviolet photodetector for UV A monitoring (2020) <i>Superlattices and Microstructures</i> , 141
187	Pedaneekar, R.S., Shaikh, S.K., Rajpure, K.Y. Thin film photocatalysis for environmental remediation: A status review (Review) (2020) <i>current applied physics</i> 20(8), 931-952
188	Madake, S.B., Hattali, M.R., Rajpure, K.Y. Porogen induced formation of mesoporous zinc ferrite thin films and their chemiresistive properties (2021) <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 263, 114867
189	Narewadikar N.A., Suryavanshi R.D., Rajpure K. Y. Enhanced Photoelectrocatalytic Degradation Activity of Titanium Dioxide (2021) <i>Photoelectrode: Effect of Film Thickness Colloid Journal</i> , 83, 107-115
190	Madake, S.B., Hattali, M.R., Thorat, J.B., Pedaneekar, R.S., Rajpure, K.Y. <u>Chemiresistive Gas Sensing Properties of Copper Substituted Zinc Ferrite Thin Films Deposited by Spray Pyrolysis</u> (2021) <i>Journal of Electronic Materials</i> , 50, 2460-2465
191	Patil, A.R., Dongale, T.D., Nirmale, S.S., Kamat, R.K., Rajpure, K.Y. <u>Bipolar resistive switching and memristive properties of sprayed deposited Bi₂WO₆ thin films</u> (2021) <i>Materials Today Communications</i> , 28, 102621
192	Yadav, S.P., Rajpure, K.Y. , Urkude, R., Hunge, Y.M., Chandekar, K.V. <u>Dielectric and magneto-electric behavior of (x) Co_{0.8}Mn_{0.2}Fe₂O₄ and (1-x) PbZr_{0.52}Ti_{0.48}O₃ composites</u> (2021) <i>Physica B: Condensed Matter</i> , 617, 413118
193	Madake, S.B., Thorat, J.B., Rajpure, K.Y. <u>Spray deposited multimetal Cu-Ni-Zn ferrite for gas sensing application</u> (2021) <i>Sensors and Actuators, A: Physical</i> , 331, 112919
194	Narewadikar, N.A., Rajpure, K.Y. <u>Study on effect of deposition temperature on photoelectrocatalytic performance of immobilized TiO₂</u> (2022) <i>Chemical Physics Letters</i> , 787, 139279
195	Pedaneekar R.S., Madake S.B., Narewadikar N.A., Mohite S.V.,Patil A.R.,Kumbhar S.M, Rajpure K.Y. Photoelectrocatalytic degradation of Rhodamine B by spray deposited Bi ₂ WO ₆ photoelectrode under solar radiation (2022), <i>Material Research Bulletin</i> , 147, 111639
196	S.B Madake, A.R Patil, R.S Pedaneekar, N.A Narewadikar, J.B Thorat, K. Y. Rajpure The influence of nickel substitution on the structural and gas sensing properties of sprayed ZnFe ₂ O ₄ thin films (2022), <i>Journal of Materials Science: Materials in</i>

	Electronics, 33, 6273-6282
197	S.S Jadhav, A. A Bagade, T. J Shinde, K. Y. Rajpure <u>The Structural, Electric and Dielectric Properties of Ni_{0.7}Cd_{0.3}NdxFe_{2-x}O₄ (0 ≤ x ≤ 0.03) Ferrite Prepared via Oxalate Co-Precipitation Route</u> Iranian Journal of Materials Science and Engineering, (2022), 19, 1-10
198	A. R Patil, T. D Dongale, R.K Kamat, K. Y. Rajpure <u>Spray deposited zinc tungstate thin film for non-volatile memory application</u> , Materials Letters, (2022), 132494
199	Suryavanshi, R.D., Babar, P.V., Narewadikar, N.A., Rajpure, K.Y. <u>Sunlight assisted novel spray deposited Bi₂WO₆ photoelectrode for degradation of organic pollutants</u> , <i>Journal of Physics and Chemistry of Solids</i> , (2022), 168, 110786
200	NA Narewadikar, RS Pedanekar, VG Parale, HH Park, KY Rajpure Spray deposited yttrium incorporated TiO ₂ photoelectrode for efficient photoelectrocatalytic degradation of organic pollutants, (2022) Journal of Rare Earths
201	AR Patil, TD Dongale, RK Kamat, KY Rajpure Binary Metal Oxide-based Resistive Switching Memory Devices: A Status Review, (2023) Materials Today Communications, 105356
202	Pedanekar R.S., Mohite S.V., Madake S.B., Kim Y., Gunjekar J.L., Rajpure K.Y. Photoelectrocatalytic activity of methylene blue using chemically sprayed Bi ₂ WO ₆ photoanode under natural sunlight, Journal of Alloys and Compounds, (2023), 2023
203	V Ganbavle, S Shaikh, S Mohite, S Inamdar, A Bagade, A Patil, K Rajpure Synergistic Effects of Pd Decoration and Substrates on the NO ₂ Sensing Performance of Sprayed WO ₃ Thin Films, (2023) Chemical Physics Letters, 140327
204	Amitkumar R Patil, Tukaram D Dongale, Lahu D Namade, Santosh V Mohite, Yeonho Kim, Santosh S Sutar, Rajanish K Kamat, Keshav Y Rajpure Sprayed FeWO ₄ thin film-based memristive device with negative differential resistance effect for non-volatile memory and synaptic learning applications, (2023) Journal of Colloid and Interface Science.

List of papers presented at conferences, workshops, seminars and symposia

1.	A. Venkateswara Rao, P.B .Wagh , D. Haranath, K.Y.Rajpure Preparation and characterization of monolithic silica Aerogels
2.	A. Venkateswara Rao , D. Haranath , P.B.Wagh, K.Y.Rajpure Sol - Gel processing and characterization of Silica gels and glasses
	Paper no. 1-2 were presented at National Conference on Developments in Electronic Materials and Their Applications (NCDEMA), 6-8 Mar. 1995, Shivaji University, Kolhapur
3	P.B.Wagh , D. Haranath , A.Venkateswara Rao, K.Y.Rajpure Synthesis and physical properties of organic acid (Citric acid) catalyzed TEOS silica Aerogels
	Three one day seminars on New materials, 5,6,18 Mar. 1996, Shivaji University, Kolhapur
4.	K.Y. Rajpure , C.H. Bhosale Effect of concentration of complexing agent on the properties of spray deposited Sb_2S_3 thin films
5.	K.Y. Rajpure , C.H.Bhosale Effect of concentration of complexing agent on the properties of precipitated Sb_2S_3 powders
6.	K.Y. Rajpure , A. S. Sapkal, C.H.Bhosale Preparation & characterization of spray deposited CoS thin films
	Paper no. 4-6 were presented at Seventh National Convention / Conference of Electrochemists 18—20 Nov. 1996, Shivaji University, Kolhapur
7.	K.Y. Rajpure , C.H.Bhosale Solution concentration dependent properties of spray deposited Sb-Se thin films from non-aqueous medium
	Symposium on current Status on Solar Energy Materials and Systems, 34-25 Feb. 1997 Anna University, Chennai (India)
8.	K. Y. Rajpure , C. H. Bhosale Solution Concentration dependent properties of spray deposited Sb_2S_3 thin films
	Ninth International Workshop on Physics of Semiconductor Devices (<i>IWPSD-97</i>) State Physics Laboratory, Lakhanow Road, Delhi – 54
9.	R. A. Vanjari, K.Y. Rajpure , C.H.Bhosale Preparation and Characterization of $Sb_2(S_xSe_{1-x})_3$ pellets
10.	U. L. Shinde, K.Y. Rajpure , C.H.Bhosale Substrate temperature dependent properties of spray deposited Sb_2Se_3 thin films

11	V. V. Killedar, K.Y. Rajpure , C. D. Lokhande C.H.Bhosale (Photo)electrochemical Characterisation of Sprayed Bi ₂ S ₃ thin films prepared from non-aqueous media,
	Paper no. 9-11 were presented at Seminar cum Workshop on Materials and Characterization, 13-17 July 1998 CECRI, Karaikudi, T.N. (India)
12	K. Y. Rajpure , C. D. Lokhande, C. H. Bhosale 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
	The Twelfth International Conference on Photochemical Conversion and Storage of Solar Energy (<i>IPS-12</i>), 9-14 Aug. 1998 Hahn - Meitner Institut, Department of Physical Chemistry, Glienicker Str. 100, 14109 Berlin, Germany
13	K. Y. Rajpure , V. L. Mathe, C. D. Lokhande, C. H. Bhosale Properties of photoelectrochemical cells formed with sprayed CdIn ₂ S ₄ thin films
14	A. M. Patil , K. Y. Rajpure , C. D. Lokhande, C. H. Bhosale Substrate temperature dependent properties of sprayed CdIn ₂ S ₄ thin films
15	K. Y. Rajpure , M. N. Kusumade, S. S. Kumbhar, C. D. Lokhande, C. H. Bhosale Effect of Sb doping on properties of spray deposited SnO ₂ thin films
	Paper no.13-15 were presented at National Seminar on Recent Trends in Solid State Sciences (NSRTSS-98), 23-24 Nov. 1998 Sri Venkateswara University, Tirupati (A.P.)
16	K. Y. Rajpure , V. L. Mathe, C. D. Lokhande, C. H. Bhosale Optical properties of CdIn ₂ S ₄ thin films and their use in photoelectrochemical cells Regional Workshop on Characterization of Semiconductor nanostructure and their Application to Optoelectronic Devices, 1-4 Dec. 1998 University of Delhi, Delhi
17	K.Y. Rajpure , S.S. Kumbhar, M.N. Kusumade, C.D. Lokhande P.S. Patil, C. H. Bhosale Effect of Al doping on properties of spray deposited SnO ₂ thin films
18	R.P. Pawar, K.Y. Rajpure , C. H. Bhosale Structural and optical properties of electrodeposited In ₂ Te ₃ thin films
19	A.D. Patil, K.Y. Rajpure , C. H. Bhosale Structural, optical and photoelectrochemical (PEC) properties of electrodeposited In-Se

	thin films
20	K. Y. Rajpure , C. D. Lokhande, C. H. Bhosale 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
21	K.Y. Rajpure , V.L. Mathe, C.D. Lokhande, C. H. Bhosale Photoelectrochemical investigation on spray deposited n-CdIn ₂ S ₄ thin films
	Paper no.17-21 were presented at DAE- BRNS Symposium on Electro and Magnetoceramics, 18-20 Feb. 1999 Shivaji University, Kolhapur
22	K. Y. Rajpure , C. D. Lokhande, C. H. Bhosale 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.
	Tenth International Workshop On the Physics of Semiconductor Devices, 14-18 Dec.1999 Solid State Physics Laboratory, New Delhi
23	A. M. Patil, K. Y. Rajpure , C. H. Bhosale Properties of spray deposited SnS ₂ thin films
	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	A. V. Moholkar, K. Y. Rajpure , C. H. Bhosale Properties of highly oriented spray deposited fluorine doped tin oxide thin films
25	S. M. Pawar, K. Y. Rajpure , C. H. Bhosale Effect of Substrate on Properties of Electrodeposited CdSe Thin Films from Aqueous Medium
26	K. Y. Rajpure , R.R. Sawant, C. H. Bhosale Effect of solution concentration on properties of spray deposited semiconducting CdIn ₂ S ₄ thin films
	Paper no.24-26 were presented at International Conference on Optoelectronic Materials and Thin Films for Advanced Technology Cochin University of Science and Technology, Oct.24- 27, 2005.
27	A. V. Moholkar, K. Y. Rajpure , C. H. Bhosale The effect of annealing on the structural and electrical properties of fluorine doped tin oxide thin films prepared from different spray solvents

28	S.P. Yadav, P.S Shinde, K.Y Rajpure, C.H.Bhosale, Preparation and properties of spray deposited ZnIn₂S₄ thin films Paper no.27-28 were presented at National Seminar on Materials for Advanced Technologies Department of Physics, Shivaji University, Kolhapur
29	S.P. Yadav, P.S Shinde, K.Y Rajpure, C.H.Bhosale, Photoelectrochemical study of spray deposited ZnIn₂Se₄ thin films International Symposium on Advances in Electrochemical Science and Technology (ISAEST- 8) National Institute of Oceanography (NIO), Goa
30	A. V. Moholkar, K. Y. Rajpure, C. H. Bhosale Structural, optical and electrical properties of spray-deposited F:SnO₂ thin films prepared with different SnCl₄ concentration Indian Council of Chemists, ICC-25, Birla College, Kalyan, Mumbai
31	S. S. Shinde, K. Y. Rajpure, C. H. Bhosale Effect of substrate temperature on spray deposited zinc oxide National Seminar on New Horizons in Physics-2007, (NSNHP-07), 21st and 22nd Jan. 2007 YCIS, Satara
32	A. V. Moholkar, K. Y. Rajpure, C. H. Bhosale Effect of SnCl₄ concentration on the properties of spray-deposited F:SnO₂ thin films National conference on current trends in Materials Research for Advanced Technology (NCMART-2007) Department of Physics, Dr. Babasaheb Ambedkar University, Aurangabad
33	S. M. Pawar, A. V. Moholkar, K. Y. Rajpure, C. H. Bhosale Synthesis and Characterization of Fe doped CdSe Thin Films from Ethylene Glycol Bath 18th Annual General Meeting and Theme: Materials for Energy Generation, Conservations and Storage Materials Research Society of India, NPL, Delhi (India)
34	S. M. Pawar, A. V. Moholkar, K. Y. Rajpure, C. H. Bhosale Effect of Fe dopant on the properties of CdSe thin films form aqueous medium
35	A. V. Moholkar, S. M. Pawar, K. Y. Rajpure, C. H. Bhosale Effect of solution quantity on properties of sprayed ITO thin films
36	S. P. Yadav, P. S. Shinde, K. Y. Rajpure, C. H. Bhosale Effect of calcination on the properties of ZnIn₂Se₄ thin films
37	C. A. Pawar, P. S. Shinde, K. Y. Rajpure, C. H. Bhosale

	Effect of water to methanol solvent ratio on properties of spray deposited CdO thin films
38	R. J. Deokate, C. H. Bhosale, K. Y. Rajpure Structural , Optical, and electrical properties of chemically sprayed CdIn ₂ O ₄ thin films
39	R. R. Sawant, P. S. Shinde, K. Y. Rajpure , C. H. Bhosale Comparative study of (photo) electrochemical properties of spray deposited n-CdIn ₂ S ₄ thin films on different substrate
40	V. S. Sawant, R. J. Deokate, C. H. Bhosale, K. Y. Rajpure Studies on spray deposited Cd ₂ SnO ₄ thin films
	Paper no.34-40 were presented at International Conference on Advanced materials and Application (ICAMA-2007), 15-17 NOV. 2007. Department of Physics, Shivaji University, Kolhapur
41	R. J. Deokate, C. H. Bhosale, K. Y. Rajpure Liquefied petroleum gas (LPG) sensing characteristic of spray deposited CdIn ₂ O ₄ thin films. Recent Advances in Sensor and Instrumentation Shankarrao Mohite Mahavidyalaya, Akhuj
42	R. J. Deokate, C. H. Bhosale, K. Y. Rajpure Structural, optical, and electrical properties of chemically sprayed CdIn ₂ O ₄ thin films International Conference on Advanced Materials and Applications, 15-17 Nov., 2007 Department of Physics, Shivaji University, Kolhapur
43	R. J. Deokate, C. H. Bhosale, K. Y. Rajpure Preparation of CdIn ₂ O ₄ thin films by Spray pyrolysis technique DAE Solid State Physics symposium, 27-31 Dec., 2007 University of Mysore, Mysore
44	R. R. Sawant, K. Y. Rajpure , C. H. Bhosale, A novel hydrocarbon gas sensor based on sprayed cadmium indate thin films National seminar in Chemistry Department of chemistry, Shivaji University, Kolhapur
45	A. R. Babar, C. H. Bhosale, K. Y. Rajpure Physicochemical and optical properties of highly textured spray deposited Ga doped ZnO thin films Pre-conference school on Science and Applications of Luminescent Materials (SALM-2008) NPL, New Delhi
46	R. J. Deokate, C. H. Bhosale, K. Y. Rajpure

	Effect of composition on the properties of $\text{Cd}_x\text{Zn}_{1-x}\text{O}$ films on glass substrates National Conference on Advanced Materials and Characterization (NCAMC 2008) VIT University, Vellore
47	R. J. Deokate, C. H. Bhosale, K. Y. Rajpure Physical properties of chemically sprayed transparent conductive CdIn_2O_4 thin films 2nd International Symposium on Transparent Conducting Oxides Conference Greece
48	V. S. Sawant, A. P. Torane, S. S. Shinde, P. S. Shinde, R. J. Deokate, C.H. Bhosale, K. Y. Rajpure Transparent conducting oxide thin films of Cd_2SnO_4 prepared by Spray pyrolysis
49	S. V. Salunkhe, R. J. Deokate, V. S. Sawant, A. R. Babar, C. H. Bhosale, K. Y. Rajpure Effect of gallium doping on structural, electrical and optical properties of CdO thin films
50	A. R. Babar, R. J. Deokate, K. Y. Rajpure Effect of annealing temperature on structural and electrical properties of SnO_2,
51	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 Fluorine influence on photoluminescence in doped zinc oxide thin films,
52	R. C. Kambale, S. S. Kamble, K. Y. Rajpure, Y. D. Kolekar Synthesis and characterization of nanocrystalline $\text{Co}_{0.7}\text{Mn}_{0.3}\text{Fe}_2\text{O}_4$ ferrite prepared by glycine-nitrate combustion method
53	R. J. Deokate, C. H. Bhosale, K. Y. Rajpure Studies of the optical and electrical properties of the $\text{Cd}_{1+3x}\text{In}_{2-2x}\text{O}_4$ thin film by spray techniques
54	C. A. Pawar, P. S. Shinde, V. V. Killedar, S. P. Yadav, K. Y. Rajpure, C. H. Bhosale Synthesis and characterization of nanocrystalline spray deposited CdO thin films
55	A. V. Moholkar, P. S. Shinde, S. M. Pawar, K. Y. Rajpure, P. S. Patil, C. H. Bhosale Properties of nanocrystalline F:SnO_2 thin films
56	D. S. Dhawale, R. R. Salunkhe, A. M. More, S. B. kulkarni, K. Y. Rajpure, V. J. Fulari, C. D. Lokhande PVA assisted chemical synthesis of cauliflower network of cadmium sulphide thin films at ambient temperature
	Paper no.48-56 were presented at International conference on nanomaterials and applications (ICNAMA-08), 9-11 Dec 2008 Department of physics, Shivaji University, Kolhapur
57	S. S. Shinde, C. H. Bhosale, K. Y. Rajpure

	Solar light aided photoelectrocatalytic degradation of Salicylic acid in water using sprayed TiO₂ electrodes Commercialization of Renewable Energy technology (CRET-2009) D.Y. Patil University, Kolhapur
58	S. S. Shinde, C. H. Bhosale, K. Y. Rajpure Solar light aided photoelectrocatalytic degradation of 4 Chlorophenol in water using nanocrystalline TiO₂ electrodes 54th DAE-SSPS 2009 M.S. university of Baroda, Vadodara, Gujrat
59	R. R. Sawant, S. S. Shinde, K. Y. Rajpure, C. H. Bhosale, Synthesis of nanocrystalline Cadmium indate for gas sensor application International Workshop on Nanotechnology and Advanced Functional Materials National Chemical Laboratory, Pune
60	A. R. Babar, C. H. Bhosale, K. Y. Rajpure Effect of solution concentration on physicochemical properties of sprayed antimony doped tin oxide Commercialization of Renewable Energy technology (CRET-2009) D.Y. Patil University, Kolhapur
61	R. C. Kambale, C. H. Bhosale, K. Y. Rajpure Studies on magnetic properties of Co_{1-x}Mn_xFe₂O₄ spinel ferrites synthesized by combustion route International conference on Sol-Gel process for Advanced Ceramics (SGPAC-2009) Convention centre Kalpakkam, Chennai. India
62	A. R. Babar, C. H. Bhosale, K. Y. Rajpure Effect of antimony doping on properties of spray deposited tin oxide films, International Conference on Nano Science and Nano Technology (GJ- NST 2009) Muan, Korea
63	S. S. Shinde, C. H. Bhosale, K. Y. Rajpure Photoelectrocatalytic degradation of Methyl orange in water using nanocrystalline TiO₂ electrodes ASMFM 2009 Shivaji university, Kolhapur
64	R. C. Kambale, C. H. Bhosale, K. Y. Rajpure Studies on structural and dielectric behavior of CMFO ferrite and BZT ferroelectric magnetoelectric composites\

	International conference on Electroceramics (ICE-2009) University of Delhi (India)
65	A. R. Babar, C. H. Bhosale, K. Y. Rajpure Effect of quantity of spraying solution on the properties of sprayed antimony doped tin oxide thin films International Conference on Advances in Electron Microscopy & Related Techniques BARC, Mumbai
66	A. R. Babar, C. H. Bhosale, K. Y. Rajpure Studies on structural and dielectric properties of Zn ₂ SnO ₄ synthesized by co-precipitation method Paper no.66 were presented at Advance Ceramic Materials –Monoliths to Composites Sardar Patel University, Vallabh Vidyanagar, Gujrat
67	A. R. Babar, A. V. Moholkar, C. H. Bhosale, K. Y. Rajpure Thickness dependence properties of sprayed antimony doped tin oxide thin films,
68	A. T. Valkunde, S. B. Kumbhar, A. R. Babar, C. H. Bhosale, K. Y. Rajpure Physical properties of sprayed zinc stannate thin films,
69	S. B. Kumbhar, A. T. Valkunde, A. R. Babar, C. H. Bhosale, K. Y. Rajpure Studies on structural and dielectric properties of Zn ₂ SnO ₄ synthesized by co-precipitation method,
70	P. R. Jadhav, S. S. Shinde, C. H. Bhosale, K. Y. Rajpure Degradation of aromatic compounds in water using nanocrystalline oxide semiconductor electrodes,
71	S. S. Shinde, P. R. Jadhav, C. H. Bhosale, K. Y. Rajpure Influences in high quality zinc oxide films and their photoelectrochemical performance,
72	R. R. Sawant, S. S. Shinde, C. H. Bhosale, K. Y. Rajpure CdIn ₂ S ₄ based semiconductor-septum solar rechargeable storage cells,
73	V. M. Nikale, S. S. Shinde, C. H. Bhosale, K. Y. Rajpure Influence of concentration on properties of spray deposited CdIn ₂ Se ₄ thin films,
74	R. C. Kambale, P. A. Shaikh, R. S. Gafari, K. Y. Rajpure Studies on magnetic, dielectric and magnetoelectric behavior of (x)NiFe _{1.9} Mn _{0.1} O ₄ and (1-x) BaZr _{0.08} Ti _{0.92} O ₃ magnetoelectric composites
75	R. T. Sapkal, M. R. Sapkal, K. Y. Rajpure , C. H. Bhosale Method of preparing ZnO nanorods by chemical spray pyrolysis
76	R. S. Gafari, K. Y. Rajpure

	To study dielectric behaviour $\text{Ba}_{(1-x)}\text{Sr}_x\text{TiO}_3$ ferroelectric synthesized by coprecipitation method
	Paper no.67-76 were presented at National Seminar on Advanced Materials (NSAM-2010) , 19-20, Mar. 2010 Shivaji University Kolhapur
77	S. S. Shinde, A. R. Babar, C. H. Bhosale, K. Y. Rajpure Photoelectrocatalytic degradation of 4 chlorophenol using nanocrystalline TiO_2 electrodes under sunlight International conference on convergence of science & engineering in education and research A global perspective in the new millennium (ICSE-2010) Dayananda Sagar college of engineering, Bangalore
78	S. S. Shinde, A. R. Babar, C. H. Bhosale, K. Y. Rajpure Effect of calcining temperature on structural, electrical and dielectric properties of zinc stannate, International Workshop and Symposium on the Synthesis and Characterization of Glass/Glass-ceramics (IWSSCGGC-2010),7-10 July 2010 Centre for Materials for Electronic Technology (C-MET), Pune
79	M. Neumann-Spallart, S.S. Shinde , K.Y. Rajpure, C.H. Bhosale Photoelectrochemical degradation of selected aromatic molecules 6 th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA6) 13-16 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] Jaypee university of engineering & technology, raghogarh, dist: guna (m.p.)
81	S. S. Shinde, C. H. Rajpure, K. Y. RAjpure Photoelectrocatalytic degradation of toluene in water using solar light 55th DAE Solid State Physics Symposium (DAE-SSPS 2010) Manipal university Manipal, Madhav Nagar, Manipal
82	R. T. Sapkal, S. S. Shinde, M. A. Mahadik, K. Y. Rajpure , C. H. Bhosale Photoelectrocatalytic activity of spray deposited ZnO thin film against E.coli Davis International Symposium on Materials Education (ISME – 2011) C-MET, Pune
83	S. I. Inamdar, S. B. Desai, A. R. Babar, S. S. Shinde, C. H. Bhosale, K. Y. Rajpure

	Effect of calcining temperature on structural, electrical and dielectric properties of zinc lead oxide
84	T. S. Bhat, A. G. Salunkhe, A. R. Babar, S. S. Shinde, C. H. Bhosale, K. Y. Rajpure 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
85	A. R. Babar, S. S. Shinde, A. V. Moholkar, C. H. Bhosale, K. Y. Rajpure Effect of substrate temperature and nozzle to substrate distance on Structural and optoelectronic properties of spray deposited Sb:SnO ₂ thin films,
86	R. T. Sapkal, S. S. Sapkal, M. R. Sapkal, A. R. Babar, D. M. Sapkal, K. Y. Rajpure , P. S. Patil, C. H. Bhosale Photoelectrocatalytic hydrolysis of starch by sprayed ZnO thin films
	Paper no.73-86 were presented at UGC-SAP National Symposium on Advances in Synthetic Methodologies and new Materials, (ASMNM-2011), 21-22 Jan 2011 Department of Chemistry, Shivaji University, Kolhapur
87	A. R. Babar, S. S. Shinde, A. V. Moholkar, C. H. Bhosale, K. Y. Rajpure Growth of highly crystallized transparent conductive antimony-doped tin oxide thin films: effect of intermittent time
88	A. G. Salunkhe, T. S. Bhat, A. R. Babar, S. S. Shinde, C. H. Bhosale, K. Y. Rajpure Synthesis and characterization of $\text{BaTi}_{1-x}\text{Sn}_x\text{O}_3$ ($x=0$ to 0.15) ferroelectric by ceramic method
89	S. B. Desai, S. I. Inamdar, A. R. Babar, S. S. Shinde, C. H. Bhosale, K. Y. Rajpure Structural, dielectric properties and complex impedance spectroscopy studies of zinc lead oxide
90	R. S. Gafari, K. Y. Rajpure To study the dielectric behaviour of $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$ ferroelectric
91	S. P. Yadav, S. S. Shinde, P. S. Patil, K. Y. Rajpure Physical properties of spinel ferrite prepared by ceramic and combustion method
92	S. S. Shinde, P. S. Shinde, C. H. Bhosale, K. Y. Rajpure Photocatalytic degradation of organic species in aqueous suspension
93	A. P. Korade, S. S. Shinde, K. Y. Rajpure Optoelectronic properties of tin doped zinc oxide thin films
94	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 Photoelectrocatalytic activity of spray deposited ZnO thin film against E.coli Davis
95	D. M. Sapkal, V. M. Nikale, S. S. Shinde, K. Y. Rajpure , C. H. Bhosale Influence of Concentration on properties of Spray deposited CdTe thin films

96	R. C. Kambale, K. R. Rajpure Magnetic-field-induced electric polarization in ferrite/ferroelectric particulate multiferroic composites
97	P. K. Chougule, R. C. Kambale, Y. D. Kolekar, K. Y. Rajpure, C. H. Bhosale Synthesis and characterization of Co-Ni-Mn ferrite system
	Paper no.87-97 were presented at National seminar on physics of material and material based device fabrication (NSPMMD-2011), 17-18 Feb 2011 Department of Physics, Shivaji University, Kolhapur
98	S.S. Shinde, C.H. Bhosale, K.Y. Rajpure Heterogeneous photocatalysis of organic species in water under zinc oxide catalyst under solar radiation
99	S.P. Yadav, S.S. Shinde, K.Y. Rajpure Structural, electrical and magnetic properties of spinel ferrite synthesized by combustion route
100	M.A. Mahadik, V. Mohite, S.S. Shinde, A.V. Moholkar, K.Y. Rajpure , C.H. Bhosale Synthesis and characterization of nanocrystalline Fe ₂ O ₃ oxide semiconductor thin films
101	R.T. Sapkal, S.S. Shinde, M. R. Sapkal, A.R. Babar, D.M. Sapkal, K.Y. Rajpure , P.S. Patil, C.H. Bhosale Photoelectrocatalytic hydrolysis of starch by sprayed ZnO thin films
102	A.R. Babar, A.V. Moholkar, C.H. Bhosale, K.Y. Rajpure Effect of intermittent time on optoelectronic properties of antimony-doped tin oxide (ATO) thin films
	Paper no.98-102 were presented at National Conference on Recent Trends in Materials Science (RTMS 2011, 8-10 Oct 2011) Jaypee University of Information Technology, Himachal Pradesh
103	S. S. Shinde, N. S. Gaikwad, R. R. Sawant, C. H. Bhosale, K. Y. Rajpure Photoelectrocatalytic degradation of organic impurities in water under sun light using zinc oxide semiconductor thin films,
104	S. K. Patil, S. S. Shinde, K. Y. Rajpure Optoelectronic properties of spray deposited Ni-doped zinc oxide thin films,
105	S. P. Yadav. S. S. Shinde, A. A. Kadam, P. S. Patil, K. Y. Rajpure Structural, electrical and magnetic properties of Mn substituted Co-ferrite,
106	R. T. Sapkal, S. S. Shinde, A. R. Babar, K. Y. Rajpure , C. H. Bhosale Structural, morphological, optical and photoluminescence properties of Ag-doped zinc oxide thin films,
107	V. S. Mohite, S. S. Shinde, R. T. Sapkal, K. Y. Rajpure , C. H. Bhosale

	Physical properties of sprayed TiO ₂ thin films,
108	M. A. Mahadik, S. S. Shinde, K. Y. Rajpure , H. M. Pathan, C. H. Bhosale Synthesis and characterization of nanocrystalline Fe ₂ O ₃ oxide semiconductor thin films,
109	A. A. Kadam, S. S. Shinde, S. P. Yadav, P. S. Patil, K. Y. Rajpure Synthesis of nanocrystalline Dy ³⁺ doped nickel cobalt ferrite: Structural and electrical properties,
110	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 Studies on compositional dependent CZTS thin films solar cells by pulsed laser deposition technique: An attempt to improve the efficiency,
111	R. C. Kambale, K. Y. Rajpure , C. H. Bhosale 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,
	Paper no.103-111 were presented at I st International Conference on Physics of Materials and Materials based Device Fabrication (ICPMMDF-2012), 17-19, Jan 2012 Department of Physics, Shivaji University, Kolhapur
112	S. P. Yadav, S. S. Shinde, A. A. Kadam, K. Y. Rajpure The influence of Mn substitution on the structural, electrical and magnetic properties of CoFe ₂ O ₄ ferrite,
113	V. V. Ganbavle, V. S. Sawant, K. Y. Rajpure Physico-chemical, electrical and dielectric properties of the spray deposited WO ₃ films for gas sensor application,
114	S. I. Inamdar, K. Y. Rajpure Studies on the synthesis and characterization of co-precipitated nanocrystalline Zn-Pb-O bulk system,
115	A. A. Kadam, K. Y. Rajpure Effect of Dy doping on structural, electrical and magnetic properties of Ni-Co substitutional spinel ferrites,
116	S. K. Patil, K. Y. Rajpure Optoelectronic properties of spray deposited Ni-doped zinc oxide thin films,
117	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,
	Paper no.112-117 were presented at 6 th International symposium on macro and supramolecular architectures and materials (MAM-12), 21-25 Nov 2012

	K.S.Rangasamy College of Technology, Coimbatore, Tamil Nadu
118	S. I. Inamdar, K. Y. Rajpure UV photoconductive detector on spray deposited ZnO thin films,
119	S.P. Yadav, S.S. Shinde, A.A. Kadam, K.Y. Rajpure Synthesis and characterization of $\text{Co}_{1-x}\text{Mn}_x\text{Fe}_2\text{O}_4$ ferrite by ceramic method
120	S.K. Patil, S.S. Shinde, K.Y. Rajpure Physical properties of sprayed Co doped zinc oxide thin films
121	A.A. Kadam, S.S. Shinde, S.P. Yadav, P.S. Patil, K.Y. Rajpure Studies on physical properties of Dy doped Ni–Co substitutional spinel ferrite
122	A.A. Bagade, K.Y. Rajpure Synthesis and characterization of cobalt ferrite thin films by spray pyrolysis technique
123	S.V. Mohite, K.Y. Rajpure Studies on synthesis and characterization of sprayed Mg doped CdTe thin films
124	S.P. Yadav, S.B. Kale, V.A. Pawar, K.Y. Rajpure Growth and characterization of spray deposited zinc stannate Zn_2SnO_4 thin film
	Paper no.118-124 were presented at National Conference on recent trends in nanotechnology, (NCRTNT-2012) 14-15 Dec 2012 Vivekananda college, Kolhapur
125	V. S. Sawant,, K. Y. Rajpure Dielectric properties of undoped and Al-doped ZnO powder prepared by a chemical co-precipitation technique,
126	V. V. Ganbavle, K. Y. Rajpure Structural, optical and electrical properties of WO_3 thin films,
127	S. K. Patil, V. V. Ganbavle, K. Y. Rajpure Optoelectronic properties of spray deposited Ni-doped Zinc oxide thin films,
128	A. A. Bagade, K. Y. Rajpure Synthesis and characterization of CoFe_2O_4 thin films,
129	S. V. Mohite, K. Y. Rajpure Synthesis and characterization of CdTe thin films,
	Paper no.125-129 were presented at National seminar on physics of material and material based device fabrication (NSPMMDF-2013),3-4 Jan 2013

	Shivaji University, Kolhapur
130	S. S. Kumbhar, M. A. Mahadik, V. S. Mohite, K. Y. Rajpure , C. H. Bhosale Synthesis and characterization of zinc ferrite thin films prepared by spray pyrolysis technique
131	Y.M. Hunge, M.A. Mahadik, S.S. Kumbhar, V.S.Mohite, K.Y. Rajpure , A.V.Moholkar, C. H. Bhosale Preparation and characterization of sprayed Al doped ZnO thin films
132	A. A. Bagade, K. Y. Rajpure Preparation of Nanocrystalline CoFe_2O_4 Thin Films by Chemical Spray Pyrolysis Technique
133	S.I. Inamdar, K.Y. Rajpure Effect of solution concentration on performance of ZnO based visible-blind UV photodetector
134	S. V. Mohite, K. Y. Rajpure Structural, Morphological and Photoluminescence Properties of Sprayed Antimony-Doped ZnO Thin Films
135	V. V. Ganbavle, S.K. Patil, K. Y. Rajpure NO_2 , and SO_2 sensing properties of sprayed WO_3 films
136	M. A. Mahadik, V.S. Mohite, S.S. Kumbhar, Y.M. Hunge, H. M. Pathan, K.Y. Rajpure , A. V. Moholkar, C. H. Bhosale Enhanced photoelectrochemical performance of sprayed Ti-doped iron oxide thin
137	A.M. Mukadam, S.V. Mohite, R.K. Nimat, K.Y. Rajpure Spray deposited WO_3 thin films for gas sensors
138	S. P. Yadav, K.Y. Rajpure 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
139	V. S. Mohite, M. A. Mahadik, S. S. Kumbhar, , K. Y. Rajpure , A. V. Moholkar, C. H. Bhosale Structural, Optical, Electrical and Thermal Properties of TiO_2 thin films by Spray Pyrolysis Technique
140	V. S. Sawant, K. Y. Rajpure Magnetic, Structural, Electrical, and Dielectric Properties of Cobalt substituted Lithium Ferrite by Auto Combustion Method
141	S.D. Dhas, A. A. Deshpande, V.S. Bandichode, R.S. Sutar, P.M. Raste, K. Y. Rajpure , A. V. Moholkar, C. H. Bhosale Synthesis and characterization of sprayed CdSe thin films: Effect of substrate temperature
	Paper no.130-141 were presented at 2nd International conference on Physics of material

	and material based device fabrication (ICPMMDF-2014),13-15 Jan 2014 Shivaji University, Kolhapur
142	S. V. Mohite, R. R. Sawant, and K. Y. Rajpure Physical Properties of Spray Deposited CdS Thin Films: PEC Performance
143	A.A. Bagade, K.Y. Rajpure Substrate temperature dependant properties of Cobalt Ferrite thin films by spray pyrolysis technique
144	S.I. Inamdar , K. Y. Rajpure UV photoconductive detector based on spray deposited ZnO thin films
145	V.V. Ganbavle, K.Y. Rajpure Structural, morphological and gas sensing properties of spray deposited Co:ZnO films
	Paper Nos 142 to 145 were presented at an International Conference on Advanced and Applied Material Science (ICAAMS-2014) held at Gopal Krishna Gokhale College, Kolhapur-416012, (MS) India during 15th -16th, January 2014.
146	A. A. Bagade, K. Y. Rajpure Physical properties of spray deposited CoFe_2O_4 thin films
147	S.I. Inamdar, S.K. Shaikh, K.Y. Rajpure Chemically synthesized ZnO thin films for visible blind ultraviolet photodetector
148	V.V. Ganbavle, S.V. Mohite, K.Y. Rajpure Structural, morphological and gas sensing properties for spray deposited Ni:ZnO films
	Paper Nos 146 to 148 were presented at an International Conference on Innovation in Energy, Polymer and Environmental Sciences (IEPES-2014) held at Yashwantrao Chavan Institute of Science, Satara during January 10 and 11, 2014.
149	M. A. Mahadik, V.S. Mohite, S.S. Kumbhar, Y.M. Hunge, H. M. Pathan, K.Y. Rajpure , A. V. Moholkar, C. H. Bhosale Enhanced photoelectrochemical performance of sprayed Ti-doped iron oxide thin films
150	Y.M. Hunge, M.A. Mahadik, S.S. Kumbhar, V.S. Mohite, K.Y. Rajpure , A.V. Moholkar, C. H. Bhosale Preparation and characterization of sprayed Al doped ZnO thin films
151	V. S. Mohite, M. A. Mahadik, S. S. Kumbhar, , K. Y. Rajpure , A. V. Moholkar, C. H. Bhosale Structural, Optical, Electrical and Thermal Properties of TiO_2 thin films by Spray Pyrolysis Technique
152	A. A. Bagade, K. Y. Rajpure Preparation of Nanocrystalline CoFe_2O_4 Thin Films by Chemical Spray Pyrolysis Technique
153	S.I. Inamdar, K.Y. Rajpure Effect of solution concentration on performance of ZnO based visible-blind UV photodetector
154	V. V. Ganbavle, S.K. Patil, K. Y. Rajpure

	NO ₂ , and SO ₂ sensing properties of sprayed WO ₃ films
155	S. P. Yadav, K. Y. Rajpure 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
156	S. S. Kumbhar, M. A. Mahadik, V. S. Mohite, K. Y. Rajpure , C. H. Bhosale Synthesis and characterization of zinc ferrite thin films prepared by spray pyrolysis technique
157	S. V. Mohite, K. Y. Rajpure Structural, Morphological and Photoluminescence Properties of Sprayed Antimony-Doped ZnO Thin Films
158	A.M. Mukadam, S.V. Mohite, R.K. Nimat, K. Y. Rajpure Spray deposited WO ₃ thin films for gas sensors
159	V. S. Sawant, K. Y. Rajpure Magnetic, Structural, Electrical, and Dielectric Properties of Cobalt substituted Lithium Ferrite by Auto Combustion Method
160	S.D. Dhas, A. A. Deshpande, V.S.Bandichode, R.S.Sutar, P.M.Raste, K. Y. Rajpure , A. V. Moholkar, C. H. Bhosale Synthesis and characterization of sprayed CdSe thin films: Effect of substrate temperature
	Paper no.146-160 were presented at 2 nd International Conference on Physics of Materials and Materials based Device Fabrication (ICPMMDF-2014), 13-15 Jan. 2014 Department of Physics, Shivaji University, Kolhapur
161	S.P. Yadav, K. Y. Rajpure Electrical properties and magnetoelectric effect in (x) Co _{0.8} Mn _{0.2} Fe ₂ O ₄ + (1 - x) PZT ME composites
162	S.S. Kumbhar, M.A. Mahadik, Vs. Mohite, Y. M. Hunge, K. Y. Rajpure , A.V. Moholkar, C.H. Bhosale Effect of Ni content on the structural, morphological and magnetic properties of spray deposited Ni-Zn ferrite thin films
163	A.A. Bagade, K. Y. Rajpure NO ₂ Gas Sensing Performance of Nanocrystalline CoFe ₂ O ₄ Thin Films by Spray Pyrolysis Technique
164	S.I. Inamdar, S.K. Shaikh, K. Y. Rajpure Highly sensitive ultraviolet photodetector based on ZnO nanorods by chemical bath deposition method
165	S.K. Shaikh, S.I. Inamdar, K. Y. Rajpure MSM UV detector based on ZnO thin film prepared by Successive ionic layer by adsorption and reaction method
166	V.V. Ganbavle, K. Y. Rajpure Fast response, highly selective NO ₂ sensor: Effect of Ni doping
167	V.S. Mohite, M.A. Mahadik, S.S. Kumbhar, Y.M. Hunge, J.H. Kim, A.V. Moholkar, K. Y. Rajpure , C.H. Bhosale Photoelectrocatalytic degradation of benzoic acid using Au doped TiO ₂ thin films
168	S. V. Mohite, K. Y. Rajpure Photoelectrocatalytic degradation of salicylic acid using sprayed WO ₃ photoelectrode
169	M.A. Mahadik, V.S. Mohite, Y.M. Hunge, R.T. Sapkal, S.S. Kumbhar, A.V. Moholkar, K. Y. Rajpure , C.H. Bhosale

	Photocatalytic Activity of Sprayed Au Doped Ferric Oxide Thin Films For Degradation of E-Coli Davis
170	S.M.Kumbhar, S.K.Shaikh, K.Y.Rajpure Hydrothermal synthesis of TiO ₂ thin films for UV photodetector (International conference on materials and environmental science, Shivaji University (7-8 Dec. 2018))
171	S.S.Patil, S.M.Kumbhar, S.K.Shaikh, K.Y.Rajpure Structural, morphological and optical properties of NiO thin films prepared by chemical bath deposition
172	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
173	Spray deposited Bi ₂ WO ₆ photoelectrode for photocatalytic degradation of organic compounds P. V. Babar, R. D. Suryavanshi, N. A. Narewadikar, K. Y. Rajpure
	Paper no.170-172 were presented at 4 th International Conference on Physics of Materials and Materials based Device Fabrication (ICPMMDF-2019), 10-11 Jan. 2019 Department of Physics, Shivaji University, 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), 6-7 Jun. 2020 Department of Physics, Raje Ramrao Mahavidyalay, jath, Shivaji University, Kolhapur
176	Photoelectrocatalytic degradation of organic compounds by using spray deposited Bi ₂ WO ₆ thin films R.S. Pedanekar, K. Y. Rajpure
	Paper no.176 were presented at International econference on sustainable development in chemistry & scientific applications (SDCSA- 2021) Department of Physics, Sadguru Gadage Maharaj College, Karad
177	Spray deposited Bi ₂ WO ₆ thin films for photoelectrocatalytic wastewater treatment under solar radiation R.S. Pedanekar, K. Y. Rajpure
	Paper no.177 were presented at Two days online international conference on advances in science and technology (ICAST-2022) Department of Physics, Rajarshi Chhatrapati Shahu College, Kolhapur
178	Spray deposited iron tungstate thin film memristive device for non-volatile memory application A. R. Patil, K. Y. Rajpure
	Paper no. 178 were presented at two days international conference on Frontier areas of

	science and technology (ICFAST-2022), University of Hyderabad
179	Memristive properties of sprayed FeWO ₄ thin films for non-volatile memory A. R. Patil, K. Y. Rajpure
	Paper no. 179 were presented at two days international conference on Emerging trends in Material science (ETMC-2022), D. P. Bhosale college, Koregaon, Satara
180	Solar assisted photoelectrocatalytic degradation of organic compounds by spray deposited Bi ₂ WO ₆ electrode R.S. Pedanekar, K. Y. Rajpure
181	Hydrothermally synthesized iron tungstate thin film memristive device for non-volatile memory A. R. Patil, K. Y. Rajpure
182	Memcapacitive behaviour of spray deposited Barium Titanate thin films L. D. Namade, K. Y. Rajpure
	Paper no.180-182 were presented at One day international conference on recent trends in fabrication of nano-materials and their applications (ICRTFNA- 2023) Department of Physics, Rajarshi Chhatrapati Shahu College, Kolhapur
183	Operating Voltage based mem-capacitive behavior spray deposited barium titanate thin film L. D. Namade, K. Y. Rajpure
	Paper no. 183 were presented at two days international conference on Smart materials for sustainable development, energy and environmental applications (SMSDEEA-2023) Department of Physics, Chemistry and Electronics, Karmveer Bhaurao Patil Mahavidyalaya, Pandharpur
184	Memristive properties of chemically synthesized iron tungstate thin film memristive device for non-volatile memory