

Listed in Top 2% World Scientists List (2020)

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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)
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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. No.	Post	Tenure	Duties
1.	Assistant Professor (Shivaji University)	04/08/1999 to 20/08/2014	Teaching & Research
2	Professor (Shivaji University)	21/08/2014 to 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.	2018	Studies on chemically synthesized ZnO thin films for UV

	(Ph.D)		light detection
15	Mrs. Patil S. D. (Ph.D)	2018	Studies on synthesis and characterization of Co, Zn substituted $CuCr_2Se_4$ magnetic chalcogenides
16	Mr. Suryavanshi R. D. (Ph.D)	2018	Photoelectrocatalytic degradation of organic compounds using spray deposited Fe_2O_3/ZnO thin films
17	Mr. Madake S. B (Ph.D)	2021	Synthesis and characterization of spray deposited $Cu_xNi_yZn_{1-x-y}Fe_2O_4$ 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_2WO_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 $BaTiO_3$ and $SrTiO_3$ thin films deposited by sprat pyrolysis technique

6. Journal Publications: 204

Total citations: 8103 (Scopus)

h-index: 55 (Scopus)

Total citations: 10177 (Google Scholar)

h- index: 60 (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	Defence Research and Development Organization	14.96 Lakhs	1 April 2008	31 March 2011	Completed

No.: ERIP/ ER/ 0503504/ M/ 01/ 1007	(DRDO)				
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.-I, Since 2009
- In-charge, XRD and LCR facility of PIFC
- In-charge Teacher, SEM and surface profiler Facility: 2006–2007
- Member secretary- Curriculum reforms (Physics) under AF
- Member secretary- Committee for preparation of Departmental Profile
- Convener, Alumni meet: 2008, 2014
- Convener, NSAM-2010
- Convener, Parents meet, 2013
- Secretary: COURT– 2006

VI] Member of selection committees:

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

9. Honours/ Awards:

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

10. Fellowships:

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

11. Patents Filed (Indian)

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

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 (NSPMMDF-2011)	Shivaji University Kolhapur	17-18 Feb. 2011
1 st International Conference on Physics of Materials and Materials Based Device Fabrication (ICPMMDF-2012)	Shivaji University Kolhapur	17-19 Jan. 2012
National seminar on physics of material and material-based device fabrication (NSPMMDF-2013)	Shivaji University Kolhapur	3-4 Jan. 2013
2 nd International Conference on Physics of Materials and Materials Based Device Fabrication	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: 173 (list attached)

20. Conference Organised

- **Convener** of the “**National Seminar on Advanced Materials**” organized by Department of Physics, Shivaji University Kolhapur on 19-20 Mar. 2010
- **Secretary** of “**International Conference on Advanced Materials and Applications**” (ICAMA-2007), Organised by Department of Physics, Shivaji University, Kolhapur.

21. Academic & Research Administration

Extension work

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

Cocurricular Extra curricular

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

22. Research achievements

- New technique for optimization of preparative parameters
- Estimation of semiconductor parameters
- Efficient TCOs having factor of merit $\sim 10^{-2} \square/\Omega$
- The cheaper ZnO photocatalysts for photocatalysis

- Fast response ZnO UV photoconductive detector
- High sensitivity LPG gas sensor based on metal oxides
- Efficient memristor thin film based on metal oxides

23. Facility/ Resource generated

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

List of publications:

Sr.No.	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 ₂ Se 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 ₂ S 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 ₂ S 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 ₂ S 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 ₂ S 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 ₂ S 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 ₂ S ₃ and Sb ₂ Se 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 ₂ Se 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 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
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	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
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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
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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

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29	<p>S.P. Yadav, P.S Shinde, K.Y Rajpure, C.H.Bhosale, Photoelectrochemical study of spray deposited ZnIn₂Se₄ thin films</p> <p>International Symposium on Advances in Electrochemical Science and Technology (ISAEST- 8) National Institute of Oceanography (NIO), Goa</p>
30	<p>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</p> <p>Indian Council of Chemists, ICC-25, Birla College, Kalyan, Mumbai</p>
31	<p>S. S. Shinde, K. Y. Rajpure, C. H. Bhosale Effect of substrate temperature on spray deposited zinc oxide</p> <p>National Seminar on New Horizons in Physics-2007, (NSNHP-07), 21st and 22nd Jan. 2007 YCIS, Satara</p>
32	<p>A. V. Moholkar, K. Y. Rajpure, C. H. Bhosale Effect of SnCl₄ concentration on the properties of spray-deposited F:SnO₂ thin films</p> <p>National conference on current trends in Materials Research for Advanced Technology (NCMART-2007) Department of Physics, Dr. Babasaheb Ambedkar University, Aurangabad</p>
33	<p>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</p> <p>18th Annual General Meeting and Theme: Materials for Energy Generation, Conservations and Storage Materials Research Society of India, NPL, Delhi (India)</p>
34	<p>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</p>
35	<p>A. V. Moholkar, S. M. Pawar, K. Y. Rajpure, C. H. Bhosale Effect of solution quantity on properties of sprayed ITO thin films</p>
36	<p>S. P. Yadav, P. S. Shinde, K. Y. Rajpure, C. H. Bhosale Effect of calcination on the properties of ZnIn₂Se₄ thin films</p>
37	<p>C. A. Pawar, P. S. Shinde, K. Y. Rajpure, C. H. Bhosale</p>

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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
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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, Akluj
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

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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 $Co_{0.7}Mn_{0.3}Fe_2O_4$ 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 $Cd_{1+3x}In_{2-2x}O_4$ 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
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57	S. S. Shinde, C. H. Bhosale, K. Y. Rajpure

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

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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

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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, raghoharh, 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 $Ni_{0.8}Co_{0.2}Fe_{2-x}Dy_xO_4$ ($x=0$ 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
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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 $BaTi_{1-x}Sn_xO_3$ ($x=0$ 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 $Ba_{1-x}Sr_xTiO_3$ 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
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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 ₂ O 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) Co _{0.8} Mn _{0.2} Fe ₂ O ₄ and (1-x) PbZr _{0.52} Ti _{0.48} 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
	Paper 161-169 was presented in national seminar on physics of material and material based device fabrication (NSPM-MDF-2014), 19-20 Dec 2014, Shivaji university kolhapur
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.170-173 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	Deposition of high surface area ZnFe ₂ O ₄ thin films by spray pyrolysis technique S, B. Madake, K. Y. Rajpure
	Paper no.174 was presented at international conference on Clean Energy Conservation and Storage Technologies, University of Mumbai and SPK Mahavidyalaya, Sawantwadi
175	Deposition of porous zinc ferrite thin films by spray pyrolysis technique S, B. Madake, K. Y. Rajpure
	Paper no.175 was presented at International conference on cutting edge smart materials & nanotechnology (ICCESMN-2020) SGM College, Karad
176	Chemiresistive SO ₂ gas sensing properties of porous zinc ferrite thin films deposited by spray pyrolysis technique S, B. Madake, K. Y. Rajpure
	Paper no.176 was presented at international winter school 2020 Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore
177	Fabrication of multifunctional porous TiO ₂ for sensitive carbon dioxide sensor and ultraviolet detector S. M. kumbhar, K. Y. Rajpure
178	Sprayed deposited Bi ₂ WO ₆ thin films for photocatalytic application R.S. Pedanekar, A. D. Dhok, K. Y. Rajpure
	Paper no.177-178 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
179	Photoelectrocatalytic degradation of organic compounds by using spray deposited Bi ₂ WO ₆ thin films

	R.S. Pedanekar, K. Y. Rajpure
	Paper no.179 were presented at International econference on sustainable development in chemistry & scientific applications (SDCSA- 2021) Department of Physics, Sadguru Gadage Maharaj College, Karad
180	Spray deposited Bi ₂ WO ₆ thin films for photoelectrocatalytic wastewater treatment under solar radiation R.S. Pedanekar, K. Y. Rajpure
	Paper no.180 were presented at Two days online international conference on advances in science and technology (ICAST-2022) Department of Physics, Rajarshi Chhatrapati Shahu College, Kolhapur
181	Operating Voltage-Based Mem-Capacitive Behavior of Spay deposited Barium Titanate Thin Film L. D. Namade, K. Y. Rajpure
	Paper no. 185 was presented at two days international conference on Smart Materials for Sustainable Development, Energy and Environmental Applications (SMSDEEA-2023), Karmveer Bhaurao Patil Mahavidyalaya, Pandharpur
182	Spray deposited iron tungstate thin film memristive device for non-volatile memory application A. R. Patil, K. Y. Rajpure
	Paper no. 182 was International Conference on Frontier Areas of Science and Technology, (ICFAST-2022) 9-10 th September 2022, University of Hyderabad
183	Memristive properties of Sprayed FeWO ₄ thin films for non-volatile memory A. R. Patil, K. Y. Rajpure
	Paper no. 183 was International Conference on Emerging Trends in Material Science 9-10 th November, 2022, D. P. Bhosale College, Koregaon, District Satara
184	Memristive properties of chemically synthesized iron tungstate thin film memristive device for non-volatile memory A. R. Patil, K. Y. Rajpure
	Paper no. 184 was Emerging Trends in Fabrication of Nanomaterials and Their Applications (NCETFNA-2023) 29 th April, 2023, Prof. Dr. N. D. Patil Mahavidyalaya, Malkapur-Perid
185	Solar assisted photoelectrocatalytic degradation of organic compounds by spray deposited Bi ₂ WO ₆ electrode

	R.S. Pedanekar, K. Y. Rajpure
186	Memcapacitive behaviour of Spray deposited Barium Titanate Thin Film L. D. Namade, K. Y. Rajpure
187	Hydrothermally synthesized iron tungstate thin film memristive device for non-volatile memory A. R. Patil, K. Y. Rajpure
188	Efficient photocatalytic activity of CeO ₂ for degradation of Rhodamine B by powder catalysis method K. B. Erande, R. S pednekar, A. R. Patil. S. V. Mohite, S. R. Jadhav. U. M. Nerle, K. Y. Rajpure
	Paper no.185-188 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