

## Curriculum Vitae

### **Dr. Rajesh Arun Joshi**

Assistant Professor and Head,  
Department of Physics,  
Toshniwal Arts, Commerce and Science College,  
Sengaon Dist. Hingoli 431542 MS

*Affiliated to*

Swami Ramanand Teerth Marathwada University, Nanded MS  
Email: [urajoshi@gmail.com](mailto:urajoshi@gmail.com) / [rajeshjoshi@toshniwalcollege.ac.in](mailto:rajeshjoshi@toshniwalcollege.ac.in)  
Mobile: +91-7775058884 / 9096655278



---

### **Objectives**

Looking for position, to apply knowledge, skill and abilities in an organization which fosters learning and rewards performance

---

### **Professional Profile**

#### **Academic:**

Working as Assistant Professor and Head, Department of Physics at Toshniwal Arts, Commerce and Science College, Sengaon Dist. Hingoli *affiliated to* SRTM University, Nanded Maharashtra from **September, 2012**.

Worked as Lecturer, Department of Physics, Lal Bahadur Shastri Senior College, Partur Dist. Jalna *affiliated to* Dr. BAM University, Aurangabad Maharashtra from **October, 2005 to September, 2007** (Two Years) on Contract basis.

#### **Research:**

Worked as UFR fellow IUAC, New Delhi project IUAC/XIII.7/UFR-47304/2714 entitled "*Growth and Effect of SHI Irradiations on Structural and Optoelectronic Properties of Nanocomposite CdS-Bi<sub>2</sub>S<sub>3</sub> Semiconductor Thin Films for Photo-sensor Applications*" sanctioned to Dr. Ramphal Sharma, Professor and Head, Department of Physics, Dr. BAM University, Aurangabad from **March, 2010 to June, 2011** (One Year Three Months).

Experienced in Synthesis and Characterization of Nanostructured Thin Films for optoelectronic application at Thin Film and Nanotechnology Laboratory, Department of Physics, Dr. BAM University, Aurangabad from **October, 2007 to November, 2008** (One Year Two Months)

---

### **Completed Research Projects**

**Project 1:** Beam Time Request sanctioned by Inter University Accelerator Centre, New Delhi letter no. IUAC/XIII.3A/17 Aug 2015 entitled "**Study an Effect of SHI Irradiation on Physicochemical and Optoelectronic Properties of CdS/CuInSe<sub>2</sub> Thin Films for Solar cell Applications**"

**Project 2:** Sanctioned by UGC-DAE CSR, Indore letter no. CSR-IC-BL-91/CRS-208-2016-17/912/17 Nov 2016 entitled "**Growth and Effect of Surface, Interface and Composition on Physicochemical and Optoelectronic Properties of CdS/CuInGaSe<sub>2</sub> Heterojunction**"

---

**Educational Qualification**

---

**Doctor of Philosophy (Ph.D.) Physics:** Awarded by Dr. B. A. M. University, Aurangabad for the thesis entitled “**Studies and Development of Low Cost Solar Cells of  $\text{CuInSe}_2$  Thin Films by Chemical Route**” on **March, 2012** (as per the UGC regulation 2009) under the guidance of Dr. Ramphal Sharma, Professor, Department of Physics, Dr. B. A. M. University, Aurangabad MS India.

**Master of Science (M. Sc.) Physics:** Passed in **April, 2005** from Dr. B. A. M. University, Aurangabad MS India scoring 72 % (Grade I).

**Bachelor of Science (B. Sc.) Physics, Mathematics and Chemistry:** Passed **Summer-2003** examination of Amaravati University, Amaravati MS India scoring 56 % (Grade II).

---

**Professional Skills**

---

**Academic:**

- Participated in the formulation of Individual Education Program.
- Taught thin film technologies and Nanomaterial synthesis to Masters Degree programme.
- Generated quarterly and annual reports, evaluating students' progress to support recommendations for further education.
- Incorporated special learning strategies for learning disabled students encompassing self-questioning, rehearsal, review, cognitive behavior modification, organization, memory strategies and modeling.
- Skilled at keeping students on-task and busy to meet specific needs.
- Attended faculty meetings to review and evaluate teaching methods.
- Utilized computer aided techniques for teaching in and out of classroom.

**Research:**

- Well experienced in preparing of nanostructured thin films using chemical as well as physical techniques such as,
  - Spray pyrolysis
  - Spin coating technique
  - Chemical bath depositions
  - Vacuum coating technique
  - Low cost chemical ion exchange method
  - Ultra-sonication based nano-material synthesis
  - Successive ionic layer adsorption and reaction (SILAR)
- Operation of material characterization and data analysis,
  - Thin film thickness measurement set up
  - I-V response under dark and ambient conditions
  - UV-Vis measurements using photo spectrometer
  - Microprocessor based vacuum and air annealing furnace
  - Electrical characterizations like Hall measurement, two probe resistivity measurements, thermo electric property measurements

### Awards, Reorganization and Responsibilities

- **Approved Research Supervisor in Physics** under the faculty of Science and Technology of SRTM University, Nanded vide letter no. PG/Tech.Recog/2018-19/3826.
- **Approved Post Graduate Teacher in Physics** under the faculty of Science and Technology of SRTM University, Nanded vide letter no. PG/Tech.Recog/2017-18/1291.
- **Convener-Seminar on Patenting Fillings** organized at Toshniwal ACS College, Sengaon Dist Hingoli on 20<sup>th</sup> March 2021.
- **Convener-Webinar on Teachers Training NEP 2020** organized in association with NITI Aayog and Bhartiya Shikshan Mandal on 01<sup>st</sup> March 2021.
- **Convener-Workshop on IQAC, Documentations and NAAC** sponsored by RUSA, Maharashtra, JDHE GoM jointly organized by Toshniwal ACS College and LSKJM College, Parbhani on 05<sup>th</sup> June 2020.
- **Convener-One Week National Faculty Development Program Technical Skill Development** organized on 05<sup>th</sup> May to 10<sup>th</sup> May 2020 at Toshniwal ACS College, Sengaon Dist Hingoli.
- **Convener-Seminar on Intellectual Property Rights** organized at Toshniwal ACS College, Sengaon Dist Hingoli on 20<sup>th</sup> April 2020.
- **Convener- National Conference Recent Advances in Nanotechnology 2019 (NCRAN)** organized on 05<sup>th</sup> March 2019 at Toshniwal ACS College, Sengaon Dist Hingoli.
- **Convener- One Day Workshop On Revised Accreditation Framework of NAAC for Enrichment in Quality Culture** organized on 27<sup>th</sup> Aug 2018 at Toshniwal ACS College, Sengaon Dist. Hingoli.
- **Best poster presentation award by Department of Atomic Energy**, Solid State Physics Symposium (DAE-SSPS) in December, 2010 at Manipal University, Manipal (Karnataka).
- **Life member** of Indian Science Congress Association.
- **Referee** for Taluka level and District level science exhibition including AVISHKAR.
- **Reviewer** for national/international research journals.
- **Single Point of Contact (SPOC)**, Local Chapter National Program on Technology Enhanced Learning (NPTEL), Initiative of MHRD, Govt. of India.
- **Coordinator, Internal Quality Assurance Cell (IQAC)** Toshniwal ACS College, Sengaon Dist. Hingoli.
- **National Cadet Corps (NCC) "C"** certificate in "B" grade from Maharashtra Directorate.

### Faculty Development Program

<b>Course</b>	<b>University</b>	<b>Duration</b>
Orientation Programme	UGC-ASC, RDVV, Jabalpur (MP)	14 <sup>th</sup> Oct 2014 to 08 <sup>th</sup> Nov 2014
RC in ICT (ID)	UGC-HRDC, SPU, Anand (GJ)	14 <sup>th</sup> Nov 2016 to 04 <sup>th</sup> Dec 2016
RC in Basic Science (ID)	UGC-HRDC, RDVV, Jabalpur (MP)	16 <sup>th</sup> Dec 2019 to 28 <sup>th</sup> Dec 2019
RC in RM (ID)	UGC-HRDC RU, Ranchi	02 <sup>nd</sup> Sep 2020 to 15 <sup>th</sup> Sept 2020
STC on E-Content Development	UGC HRDC GU Ahmedabad	23 <sup>rd</sup> July 2020 to 29 <sup>th</sup> July 2020

---

**Research Collaborators**


---

Dr. Fouran Singh, Scientist, Material Science Division, Inter University Accelerator Centre, New Delhi <a href="mailto:fouran@gmail.com">fouran@gmail.com</a>	Dr. Ramphal Sharma Professor and Head, Department of Physics Dr. B. A. M. University, Aurangabad (MS) <a href="mailto:rps.phy@gmail.com">rps.phy@gmail.com</a>
Dr. Anil V. Ghule Professor, Department of Chemistry Shivaji University, Kolhapur (MS) <a href="mailto:anighule@gmail.com">anighule@gmail.com</a>	Dr. Nishad G. Deshpande DST INSPIRE Faculty Department of Physics Shivaji University, Kolhapur (MS) <a href="mailto:nicedeshpande@gmail.com">nicedeshpande@gmail.com</a>
Dr. Mukul Gupta Scientist, UGC DAE CSR Indore (MP) <a href="mailto:dr.mukul.gupta@gmail.com">dr.mukul.gupta@gmail.com</a>	Dr. Sudam Chavan Scientist Kralstad University, Karlstad (Sweden) <a href="mailto:sudamchavhan@gmail.com">sudamchavhan@gmail.com</a>

---

**Publications Overview**


---

Book	: 01 (One)
Chapter in Book	: 02 (Two)
Research Article in National/International Journals	: 29 (Twenty Nine)
Research Articles authored/Coauthored in Conferences	: 42 (Forty Two)
Participation in Academic and Research Events	: 29 (Twenty Nine)
Conference Organizing Committee Member	: 09 (Six)
Convener of conference/Seminar/Workshop	: 06 (Six)
Research Students working	: 02 (Two)

---

**Book**


---

**Quantum Mechanics** Parshwanath Publications ISBN 9781234567897

---



---

**Chapter in Book**


---

- Chapter:* Annealing Induced Physicochemical and Optoelectronic Property Modifications in ZnO Thin Film  
*Book name:* Theoretical Models and Experimental Approaches in Physical Chemistry  
*Publisher:* CRC Press Taylor and Francis Group  
*ISBN:* 9781771886321
- Chapter:* Energy Materials: Synthesis and Characterization Techniques  
*Book name:* Energy Materials  
*Publisher:* Elsevier  
*ISBN:* 9780128237106

---

**Research Articles in National/ International Journals**


---

- Soft Chemical Route Synthesized CdS/CuInGaSe<sub>2</sub> thin films for photovoltaic application, J. Material Science, 2019, Vol 7, 35-41 **ISSN: 2347-2235.**
- Annealing induced modifications in physicochemical and optoelectronic properties of CdS/CuInGaSe<sub>2</sub> thin film, *Solar Energy*, 2019, Vol.177, 01-07 **ISSN: 0038092X.**
- Contribution of Women's in Entrepreneurship and Government Efforts for Its Promotion, *International Journal of Management and Economics*, 2019, Vol-I,102-107 **ISSN: 2231-4687**

4. Optical & Electrical Properties Of Cobalt Oxide (Co<sub>3</sub>O<sub>4</sub>) Thin Film Synthesized By Chemical Technique, *Review of Research*, 2019, Vol. 1, 67-70 **ISSN: 2249-894X**
5. Thermal Annealing Improved Structural, Morphological, Optical and Electrical Properties of Cu<sub>2</sub>ZnSnS<sub>4</sub> Thin Film, *Review of Research*, 2019, Vol. 1, 108-112 **ISSN: 2249-894X**
6. Structural and Surface Properties of Pure and Fe Doped TiO<sub>2</sub> Nanoparticles Prepared by Chemical Route Method, *Review of Research*, 2019, Vol. 1, 87-90 **ISSN: 2249-894X**
7. CdS and CdZnS Quantum Dots Thin Films Prepared by Low Cost Chemical Route Method for Solar Cell Applications, *Review of Research*, 2019, Vol. 1, 83-86 **ISSN: 2249-894X**
8. Synthesis and Characterization of In<sub>2</sub>S<sub>3</sub> Nanoflake Thin Film for Photosensor Applications *J. Thin Films Coat. Science Tech. Appl*, 2017 Vol. 4, 21-26, **ISSN: 2455-3344**.
9. Growth and Characterization of CuInSe<sub>2</sub> Thin Films *Op. Acc. Int. J. of Science & Engineering*, 2017 Vol. 2, 71-74, **ISSN: 2456-3293**.
10. Preparation and Characterization of Polyaniline Thin Film for Sensor Applications *Int. Res. J. of Science & Engineering*, 2016 Vol. 4, 51-55, **ISSN: 2322-0015**.
11. Solution Polymerization Technique: Theoretical Background, *Multilogic in Sciences*, 2015 Vol. 4, 13-16, **ISSN: 2277-7601**.
12. Investigation of Au<sup>9+</sup> swift heavy ion irradiation on CdS/CuInSe<sub>2</sub> thin films, *Radiation Physics and Chemistry*, 2013, Vol. 91, 81-85, **ISSN: 0969-806X**
13. Effect of Post Deposition Treatment on Energy Conversion Efficiency of Nanostructured CdS/Cu<sub>2</sub>S Thin Films, *AIP Conference Proceedings*, 2013, Vol. 1512, 752-753 **ISSN 0094243X**.
14. Effect of post deposition treatment on solar cell performance of nanostructured CdS/CuInSe<sub>2</sub> thin films, *Multilogics in Sciences*, 2012 Vol. 2, 53-55 **ISSN: 2277-7601**.
15. Effect of annealing on conversion efficiency of nanostructured CdS/CuInSe<sub>2</sub> heterojunction thin film solar cell prepared by chemical ion exchange route at room temperature, *Material Research Bulletin*, 2012, Vol. 47, 2206-2211 **ISSN: 0025-5408**.
16. Growth and characterization of nanostructured CdS/Polyaniline/CuInSe<sub>2</sub> thin films for solar cell applications, *Journal of Non Crystalline Solids*, 2012, Vol. 358, 188-195 **ISSN: 00223093**.
17. Polymer impinged CdS/CuInSe<sub>2</sub> solar cell, *Solar Energy*, 2012, Vol. 86, 301 **ISSN: 0038092X**.
18. Effect of annealing on photovoltaic characteristics of nanostructured p-Cu<sub>2</sub>S/n-CdS thin film, *Renewable Energy*, 2012, Vol. 38, 219-223 **ISSN: 09601481**.
19. Annealing induced modifications in physicochemical and optoelectronic properties of Ag doped nanostructured CdS thin films, *Int. J. Photoenergy*, 2012, Vol. 2, 264027 **ISSN: 1110 662X**
20. Ag induced photo-generated charge trapping in nanostructured CdS/Cu<sub>2</sub>S thin film for photovoltaic applications, *AIP Conference Proceeding*, 2012, Vol. 1447, 1059-1060 **ISSN: 0094243X**.
21. Nanostructured p-CuIn<sub>3</sub>Se<sub>5</sub>/n-CdS heterojunction engineered using simple wet chemical approach at room temperature for photovoltaic application, *Materials Chemistry and Physics*, 2011, Vol. 127, 191-196 **ISSN: 02540584**.

22. Stoichiometry controlled conversion efficiency in nanostructured heterojunction solar cell of CdS/CuInS<sub>x</sub>Se<sub>2-x</sub> grown by chemical ion exchange method at room temperature, *Solar Energy*, 2011, Vol. 85, 1316-1321 **ISSN: 0038092X**.
23. SHI Induced Modifications in CdS/CuInSe<sub>2</sub> Thin Film: XRD Analysis, *AIP Conference Proceeding*, 2011, Vol. 1349, 647-648 **ISSN: 0094243X**.
24. Engineering of wet chemically grown nanostructured Zinc Oxide thin film by High electronic excitation, *AIP Conference Proceeding*, 2011, Vol. 1349, 653-654 **ISSN: 0094243X**.
25. Low temperature LPG sensing properties of Zinc oxide nanoparticles thin film grown using simple wet chemical approach, *Sensors and Actuators B*, 2010, Vol.146, 69-74 **ISSN: 09254005**.
26. Growth of nanocrystalline CuIn<sub>3</sub>Se<sub>5</sub> (OVC) thin films by ion exchange reactions at room temperature and their characterization as photo-absorbing layers, *Applied Surface Science*, 2009, Vol. 255, 8158-8163 **ISSN: 01694332**.
27. Effect of annealing on structural and optical properties of Zinc Oxide thin film deposited by Successive Ionic Layer Adsorption and Reaction technique, *Journal of Alloys and Compounds*, 2009, Vol. 469, 56-60 **ISSN: 09258388**.
28. Zinc Oxide Nano Particle Grown By Soft Solution Route at Room Temperature, *AIP Conference Proceeding*, 2009, Vol. 1147, 303-306 **ISSN: 0094243X**.
29. Evidence of Phonon Condensers at Nanoscale, *AIP Conference Proceeding*, 2009, Vol. 1147, 482-486 **ISSN: 0094243X**.

---

#### Research Articles in National/ International Conferences

---

1. SILAR Synthesized ZnO Thin Films at 65<sup>th</sup> DAE SSPS organized by BARC Mumbai.
2. Maxwell Equations at University level CV Raman Lecture Series organized by Shri Shivaji College Chikhali MS India
3. Quantum Mechanics at country wide classroom for science students development 2020 organized by NSB College, Nanded
4. CIGS Thin Films at e-ICMSN International Conference pn material science and Nanotechnology organized by Dayanand College, Latur
5. Doping controlled properties of CdS thin films at e-NCP National Conference in Physics organized by Shri Datta College, Hadgaon.
6. Quantum Mechanics at Country wide classroom program organized by DB College, Bhokar MS India
7. Innovative applications of Nanomaterials in Science and Technology at State level Seminar organized by ACS College, Nandgaon Dist. Nashik
8. Developing Manuals, policies and procedures for utilization of Resources at National level FDP on Creating High Impact Work Culture organized by B Raghunath ACS College, Parbhani
9. National level workshop on Documentations for PTV of NAAC Documentation for DVV and PTV of NAAC Mahatma Phule Mahavidyalaya, Kingaon
10. Annealing Induced Modifications in CdS/CuInGaSe<sub>2</sub> Thin Films by R. A. Joshi, ICRIS-2017
11. Annealing Induced Modifications in In<sub>2</sub>S<sub>3</sub> Thin Film, by R. A. Joshi, Recent Advances in Science (RAS 2017)
12. Optoelectronic Properties of CdS/CIS Semiconductor Junction,  
R. A. Joshi & T. U. Kendre, Emerging Trends in Chemistry and Nanoscience (ETCN 2017)

13. Nanostructured polyaniline impinged CdS/CuInSe<sub>2</sub> thin film,  
R. A. Joshi and Ramphal Sharma, AFMA 2015
14. Annealing induced modifications in CdS/CuInSe<sub>2</sub> thin films  
R. A. Joshi and Ramphal Sharma, NTPC 2015
15. Arsenic Life a Big Chaos in Biological World  
V. B. Kalyankar, R. T. Chavan, R. A. Joshi, Recent Trends in Chemical Science 2015
16. Synthesis of ZnS thin film by CBD for photovoltaic solar cell applications,  
Deepak S. Upadhye, Sandip V. Mahajan, Ketan P. Gattu, Ghazi Mohd Qamaruddin,  
Arindam A. Ghosh, Vidya S. Taur, Rajesh A. Joshi, Anil V. Ghule and Ramphal Sharma,  
ICRE-2011.
17. Studies on structural and optical properties of CdS<sub>0.2</sub>Se<sub>0.8</sub>:Ag nanocomposite thin film for  
photosensor application  
J. B. Chaudhari, A. A. Ghosh, V. S. Taur, R. A. Joshi, Anil Ghule and Ramphal Sharma,  
ICRE-2011.
18. Growth and characterization of CdS-Bi<sub>2</sub>S<sub>3</sub> nanocomposite thin film deposited by successive  
ionic layer adsorption and reaction method  
Dipalee J. Desale, A.A. Ghosh, R.A. Joshi, V. S. Taur, S. U. Shaikh, F. Siddiquee, R.B.  
Birajadar, Anil Ghule and Ramphal Sharma, ICRE-2011, Jaipur, India.
19. Study of annealing effects on Structural, Optical and Electrical properties of CuSe thin films  
grown by Solution Growth Technique  
S.R. Gosavi, A. A. Ghosh, V. S. Taur, R.A. Joshi, H.K. Sadekar, Anil Ghule, Ramphal  
Sharma, ICRE-2011, Jaipur, India.
20. Effect of growth parameters and thermal treatment on the structure, morphology and optical  
properties of PbS Thin films  
Ghazi Mohd Qamaruddin, Jagruti V. Meshram, Ketan P. Gattu, Sandip V. Mahajan,  
Arindam A. Ghosh, Vidya S. Taur, Rajesh A. Joshi, Shaikh Shaheed Umar, Ravikiran  
B. Birajadar, Anil V. Ghule and Ramphal Sharma, ICRE-2011, Jaipur, India.
21. Wet chemical synthesis of ZnO thin films for opto-electronic device application.  
Sandip V. Mahajan, Arindam A. Ghosh, Vidya S. Taur, Rajesh A. Joshi, Anil V. Ghule and  
Ramphal Sharma, ICRE-2011, Jaipur, India.
22. Study of optoelectronic properties of Ag/n-CdS heterojunction prepared by CBD technique  
Ketan P. Gattu, Jagruti V. Meshram, Sandip V. Mahajan, Deepak S. Upadhye, Ghazi Mohd  
Qamaruddin, Rajesh A. Joshi, Arindam A. Ghosh, Vidya S. Taur, Shaikh S.U, Birajdar R,  
Anil V. Ghule and Ramphal Sharma, ICRE-2011, Jaipur, India.
23. SHI Induced Modifications in CdS/CuInSe<sub>2</sub> Thin Film: XRD Analysis,  
R. A. Joshi, V. S. Taur, Anil V. Ghule and Ramphal Sharma, DAE SSPS 55 2010 152  
ISBN: 81-8372-061-7.
24. Photosensor application of CdS-Cu<sub>2</sub>S composite thin film by chemical route,  
Vidya S. Taur, Yuvraj G. Gudage, Arindam Ghosh, Rajesh A. Joshi, Anil Ghule and  
Ramphal Sharma, AISATON-2010.
25. Effect of irradiation on Cu doped ZnO thin films grown by SILAR technique  
Arindam Ghosh, Yuvraj G. Gudage, Rajesh A. Joshi, Vidya S. Taur, Sunil R. Gosavi,  
Harishchandra K. Sadekar, Deepali J. Desale, Anil Ghule and Ramphal Sharma,  
AISATON-2010.

26. Optical properties of CdSSe thin film deposited by chemical bath deposition method, Farha.Y. Siddiqui, Arindam Ghosh, V. S. Taur, *R.A. Joshi*, S. R. Gosavi, S. U. Shaikh, Y. G. Gudage, H.K. Sadekar, Anil Ghule and Ramphal Sharma, AISATON-2010.
27. Effect of SHI irradiation on structural and opto-electronic properties of nanocrystalline ZnO thin film.  
R.B. Birajadar, Y.G.Gudage, Arindam Ghosh, *R.A. Joshi*, S.R.Gosavi, V. S. Taur, Anil Ghule and Ramphal Sharma, AISATON-2010.
28. Effect of annealing on the optoelectronic properties of CuSe thin film.  
S.R.Gosavi, Y.G.Gudage, Arindam Ghosh, *R.A. Joshi*, H.K. Sadekar, V. S. Taur, D. J. Desale, S. U. Shaikh, F. Siddiquee, R.B. Birajadar, Anil Ghule and Ramphal Sharma, AISATON-2010.
29. Growth and characterization of CdS and Bi<sub>2</sub>S<sub>3</sub> thin films deposited by wet chemical deposition technique  
S. U. Shaikh, Y.G.Gudage, Arindam Ghosh, *R.A. Joshi*, S.R.Gosavi, V. S. Taur, D.J. Desale, Siddiqui F.Y, R.B. Birajadar, Anil Ghule Ramphal Sharma, AISATON-2010.
30. Engineering of Wet Chemically Grown Nanostructured Zinc Oxide Thin Film by High Electronic Excitation  
Ravikiran B. Birajadar, Arindam. A. Ghosh, *Rajesh. A. Joshi*, Vidya. S. Taur, S. U. Shaikh, Anil V.Ghule, and Ramphal Sharma, DAE SSPS 55 2010 153 ISBN: 81-8372-061-7.
31. Annealed induced modifications in nanostructured CdS<sub>0.7</sub>Se<sub>0.3</sub> thin film.  
J. B. Chaudhari, Y. G. Gudage, A. A. Ghosh, *R.A. Joshi*, V. S. Taur and Ramphal Sharma, DAE SSPS 55 2010 211 ISBN: 81-8372-061-7.
32. Vacancy induced structural modifications in CuInSe<sub>2</sub>,  
*Rajesh A. Joshi*, Y. G. Gudage, A Ghosh A.Ghule Ramphal Sharma, AISATON-2010.
33. Study of optoelectronic properties of n-CdS/p-OVC-CIS Semiconductor Junction,  
*R. A. Joshi*, Arindam Ghosh, V. S. Taur, Ramphal Sharma, DAE SSPS 54 2009 242.
34. Photosensor application of Nanostructured CuIn<sub>3</sub>Se<sub>5</sub> thin film,  
*R. A. Joshi*, Arindam Ghosh, V. S. Taur, D. J. Desale and Ramphal Sharma, NATCON NAMTECH 2 2009 651 ISBN: 93-80043-61-6.
35. pH effect on electrical properties of polyaniline  
*Rajesh A. Joshi*, Abhay A. Sagade, Yuvraj G. Gudage, Arindam Ghosh, Vidya S.Taur and Ramphal Sharma, RAINMAA-2009.
36. CdS-Cu<sub>2</sub>S nanocomposite thin film grown by soft chemical route for the photosensor devices application  
Vidya S. Taur, Arindam Ghosh, *Rajesh A. Joshi*, Dipalee J. Desale, Ramphal Sharma NATCON NAMTECH-2009 ISBN: 93-80043-61-6.
37. Room temperature LPG sensing properties of chemically grown ZnO thin  
Arindam Ghosh, *Rajesh A. Joshi*, Vidya S. Taur, Ramphal Sharma, NATCON NAMTECH-2009 ISBN: 93-80043-61-6.
38. Optoelectronic properties of CdS-Bi<sub>2</sub>S<sub>3</sub> thin film for photo sensor application.  
Dipalee. J. Desale, Arindam Ghosh, *Rajesh. A. Joshi*, Vidya. S. Taur and Ramphal Sharma, NATCON NAMTECH-2009 ISBN: 93-80043-61-6.
39. Zinc oxide (ZnO) nanoparticles grown by soft solution root method a room temperature.  
Arindam Ghosh, Abhay A. Sagade, *Rajesh A. Joshi* Ramphal Sharma, ICOTOPON-2009.



40. Effect of Swift heavy ion irradiation on Zinc oxide thin films.  
Arindam Ghosh, A.A. Sagade, R A. Joshi, D.M. Phase, Ramphal Sharma, RAINMAA-2009.
41. Room temperature LPG sensing of Cu doped ZnO thin films grown by SILAR technique.  
Arindam Ghosh, Rajesh. A. Joshi, Vidya. S. Taur Ramphal Sharma, DAE SSPS 54 2009.
42. Effect of annealing on ammonia gas sensing properties of polyaniline thin  
Rajesh A. Joshi, Abhay A. Sagade, Yuvraj G. Gudage, Arindam Ghosh, Vidya S. Taur and Ramphal Sharma, DAE SSPS 53 2008 687 ISBN: 978-81-8372-044-1.

---

### **Participations in Academic/ Research Events**

---

1. State level workshop on NAAC Reaccreditation Process organized by DSM College, Jintur on 11<sup>th</sup> and 12<sup>th</sup> Sept 2021.
2. International virtual school on Ion Beam in Materials Science organized by IUAC, New Delhi on 01<sup>st</sup> to 5<sup>th</sup> Dec 2020.
3. Workshop on NEP 2020 organized by SRTMU, Nanded on 01<sup>st</sup> Oct 2020
4. Digital transformation in Education institutes e-classrooms and LMS organized by SSD College, Latur on 30<sup>th</sup> July 2020
5. ICT Tools for effective teaching learning organized by SRTMU Nanded on 27<sup>th</sup> April to 02<sup>nd</sup> May 2020
6. Awareness program on Revised accreditation framework (RAF) of NAAC on 21<sup>st</sup> Nov 2019 at SRTM University, Nanded
7. RUSA sponsored three day workshop on New NAAC Accreditation Methodology for HEI's 05<sup>th</sup> to 07<sup>th</sup> Feb 2019 at SRTM University, Nanded
8. Workshop on syllabus revision organized by Bahirji Smarak College, Basmat in association with SRTM University, Nanded
9. NPTEL, IIT Kanpur organized Workshop for SPOC, Local Chapters at PR Pote College, Amaravati on 14<sup>th</sup> Oct 2017.
10. International Conference on Recent Innovations in Science and Workshop on Spectroscopy and its perspectives organized by MAUS College Mehsana and GuJCOST on 15-16 Sept 2017.
11. Workshop on CBCS organized at Maharashtra Gramin College, Vasant Nagar Mukhed Dist. Nanded by S. R. T. M. University, Nanded on 19<sup>th</sup> July 2017.
12. NPTEL organized Workshop for SPOC, Local Chapters at IIT, Madras on 15<sup>th</sup> July 2017.
13. Recent Advances in Science 2017 (RAS 2017) organized by L.P.P. College, Risod Dist. Washim MS on 09<sup>th</sup> March 2017.
14. National Conference on Emerging Trends in Chemistry and Nanoscience (ETCN 2017) at LVH ACS College, Nashik on 20<sup>th</sup> January 2017.
15. State Level Technical Model/Poster Presentation and Exhibition organized by B. N. College of Engineering, Pusad MS on 29<sup>th</sup> December 2015.
16. 8<sup>TH</sup> National Conference On Thermophysical Properties-2015 (NCTP 2015), organized by Department of Physics, MNIT, Jaipur India on 14-16<sup>th</sup> December 2015.
17. Advanced Function Material and Their Application (AFMA)-2015, organized by Govt Women Engineering College, Ajmer India on 11-12<sup>th</sup> December 2015.
18. Avishkar Festival organized by B. Raghunath College, Parbhani on 03<sup>rd</sup> October 2015.
19. National Conference On Recent Trends In Chemical Sciences (RTCS)-2015, Organized by LPG College, Shirpur Dist. Washim MS India on 26<sup>th</sup> April 2015.

20. International Conference On Renewable Energy (ICRE)-2011, organized by Center For Non Conventional Energy Resources, Rajasthan University, Jaipur India.
21. Department of Atomic Energy Solid State Physics Symposium (DAE-SSPS) at Manipal University, Manipal in December 2010.
22. Workshop on Probing The Electronic States At Molecular Materials organized by Indian Institute of Sciences, Bangalore at Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad MS in February 2010.
23. Advances in Science and Technology of Nanomaterials (AISTON) at Sakri College Sakri Dist Nandurbar MS India in March 2010.
24. 2<sup>nd</sup> National Conference On Nanomaterials and Nanotechnology organized by Lucknow University, Lucknow in December 2009.
25. Department of Atomic Energy Solid State Physics Symposium (DAE-SSPS) 2009 at Vadodara University, Vadodara in December 2009.
26. State level seminar on Recent Advances in Nanocrystalline Materials & Applications (RAINMAA) organized by PSGVP Mandals Arts, Science & Commerce College, Shahada, Nandurbar MS India in Feb-2009.
27. International Conference on Solar cell (IC-SOLACE)-2008, Organized by Department of Physics, Cochin University of Science & Technology, Kochi (Kerla) India in January 2008.
28. Department of Atomic Energy Solid State Physics Symposium (DAE-SSPS) 2007 at University of Mysore, Mysore in December 2007.
29. International Conference on Advanced Materials and Applications (ICAMA)-2007, organized by Department of Physics, Shivaji University, Kolhapur India in November 2007. Effective Teaching Methods in Physics and Scope of UGC Curricula, organized by Badrinarayan Barwale Mahavidyalaya, Jalna Dist Jalna MS India on February 2007.

---

**Personal Details**

---

Father Name	:	Mr. Arun Vyankatesh Joshi
Permanent Address	:	At. Po. Medshi, Tq. Malegaon, Dist. Washim-444503 MS India
Phone no	:	09421834597
Date of Birth	:	January 11, 1983
Marital Status	:	Married
Communication skill	:	Marathi, Hindi and English

**Date:**

**Place:**

**(Dr. Rajesh Arun Joshi)**