

Curriculum vitae

- 1. Name** : Dr Abhijit Audumbar Yadav
- 2. Qualification** : M.Sc., SET, Ph.D.
- 3. Designation** : Officer on Special Duty, IQAC Coordinator
Head and Assistant Professor of Physics
Rajarshi Shahu Mahavidyalaya (Autonomous), Latur.
Chandranagar, Latur 413512 (Maharashtra)
Mobile : 9975213852
Email: aay_physics@yahoo.co.in
- 4. Specialization** : Solid State Physics, Photonics.
Subjects Taught and teaching: Classical Mechanics, Statistical Mechanics, Electrodynamics and Plasma Physics, Atomic and Molecular Physics, Quantum Mechanics, General Physics, Optoelectronics and optical communications, Laser System and its Applications, Photonic Devices and Sensors and Industrial Photonics Engineering, Electronic Communication Systems, Semiconductor Devices, Digital Electronics, Optics and Laser.
Research Specialization: Thin Films, Materials Science, Transparent conductive Oxides, and Electrochemistry.
- 5. Research Project completed:**
- Completed a Major Research Project under **Fast Track Scheme for Young Scientists – (Physical Sciences)...** (SB/FTP/PS-068/2013 dated 9th December 2013) by Science and Engineering Research Board, **Department of Science and Technology, New Delhi (Amount Rs. 24.55 Lakhs). (2014-2017).**
 - Completed a minor research project on **“Growth and characterization of Semiconducting Cadmium Selenide thin films deposited by spray pyrolysis”** [No.: 47-656/08] sanctioned by **University Grants Commission, WRO Pune (Amount Rs. 0.90 Lakhs).** (June 2009- May 2012).
- 6. Academic Awards/Medals and Honors/Rewards received:**
- **Best Young Teacher Researcher Award 2021-22** by Swami Ramanand Teerth Marathwada University, Nanded - 431 606 (MS).
 - **State level “Snashdhan ratana” (Star Researcher) Award-2016** by Mahatama Jyotirao Phule Shikshak Parishad, Maharashtra.
 - **Govt. of Maharashtra Eklavya Open Merit Scholarship** at M.Sc. degree during 2003-2005.
 - **Shivaji University Merit Scholarship** at M.Sc. degree during 2003-2005.
 - Complete biography has been included in the **2012 Edition of Marquis Who's Who in the World!**
 - **Best oral presentation award** at **One** International and **three** National Conferences.
 - **Proceeding of conference edited: 03 National level**

- **Chairman for technical session** Three Day International Conference On Functional Materials @ Nanoscale: Concerns and Challenges (ICFMNCC-2015) March 9-11, 2015 organized by K. B. P. Mahavidyalaya, Pandharpur, Dist: Solapur (M.S.) India
- **Reviewer to several international Journals,**

7. Membership:

- International Solar Energy Society (ISES).
- International Frequency Sensor Association (IFSA),
- American Nano-society,
- **Coordinator, IQAC,** Rajarshi Shahu Mahavidyalaya (Autonomous), Latur (2018 onwards).
- **Secretary, Academic Council,** Rajarshi Shahu Mahavidyalaya (Autonomous), Latur (2018 onwards).
- **Member, Academic Council,** Rajarshi Shahu Mahavidyalaya (Autonomous), Latur (2013-2018).
- Invitee Member, Governing Body, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
- Invitee Member, Finance Committee, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur.
- College Development Committee of Rajarshi Shahu Mahavidyalaya (Autonomous), Latur (2017-2020).
- Local Managing Committee of Rajarshi Shahu Mahavidyalaya (Autonomous), Latur (2016-2017).
- **Invitee Member, Board of Studies in Physics,** S. R. T. Marathwada University, Nanded – 431606 (M.S.) India.
- **Chairman, Board of Studies in Photonics,** Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
- **Member,** Board of Studies in Physics, Electronics, Zoology, Mathematics and Biotechnology, Geography Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
- **Member,** BoS in Physics as Member at Karmaveer Bhaurao Patil Mahavidyalaya (Autonomous), Pandharpur.
- **Member,** NAAC Steering Committee (Cycle III of A and A process) Rajarshi Shahu Mahavidyalaya (Autonomous), Latur.
- **Chairman, Criterion I,** NAAC A and A process (Cycle III) Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

8. Book published:

Title: **Metal Chalcogenide Thin Films by Spray Pyrolysis**

Publisher: **LAP Lambert Academic Publishing, Germany**

Language: English ISBN-10: 365969553X ISBN-13: 978-3659695537

9. Research Guidance: PhD guidance at S.R.T. M. University, Nanded

Sr. No.	Name of the Research Scholar	Title of Research	Date of registration	Date of Award
1.	Smt. P. B. Kadam	Growth and Characterization of MoO ₃ and NiMoO ₄ thin Films for Electrochemical Supercapacitor Applications	23/02/2016	Working
2.	Shri. N.M. Patil	Growth and Characterization of ZnS _x Se _{1-x} Thin Films for Photoelectrochemical Solar Cell Applications	23/02/2016	21/09/2020
3.	Mr. S.G. Nilange	Studies on chemically synthesized Cu ₂ FeSnS ₄ thin films	23/02/2016	29/08/2022
4.	Ms. V. A. Jundale	Preparation and Characterization of NiFe ₂ O ₄ and CoFe ₂ O ₄ Thin Films for Electrochemical Supercapacitor Applications	23/02/2016	22/03/2022
5.	Chandrashekhar R.	Growth and Characterization of Undoped and doped RuO ₂ thin Films for Electrochemical Supercapacitor Applications	30/07/2016	Working

10. Organization of Seminar/Conference/ Workshop/ symposia/ webinar:

1. **Convener** for Energy Conservation Awareness Workshop (Under Scheme Ujjwal Bharat Ujjwal Bhavishya) organized by IQAC, Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 01st August 2022.
2. **Convener** for Guest Lecture on “Understanding the Universe with Scientific Temper” under Scientist-Students Interaction Program organized by Department of Physics and Electronics, Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 28th April 2022.
3. **Convener** for ‘Workshop on IPR, Patents and Design Filling’ on the occasion of celebration of World Intellectual Property Day organized by IQAC, Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 26th April, 2022.
4. **Organizing Committee Member**, SERB Sponsored Two days National Symposium on “Emerging Materials: Chemistry and Challenges (EMCC 2021-22) organized by Department of Chemistry and Analytical Chemistry, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur during 11th-12th March, 2022.
5. **Convener** for National Workshop on Strategies to Crack Down Competitive Exams in Physical Sciences organized by Department of Physics and Electronics, Rajarshi Shahu

Mahavidyalaya (Autonomous), Latur in collaboration with Institute for Advanced Studies, Pune on 26th February, 2022.

6. **Convener** for Online Training Workshop on IPR – Patents, Designs Process organized by Institution Innovation Council and IQAC, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur in collaboration with Rajiv Gandhi National Institute of Intellectual Property Management, Nagpur on 25th January, 2022 .
7. **Convener** for Faculty Development Program on “NEP-2020 and NAAC” organized by IQAC, Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 2nd January, 2022.
8. **Organizing Committee Member**, ICSSR Sponsored Two day National Conference on Recent Trends in Agriculture and its Impact on Rural Development organized by Department of Geography, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur during 21st-22nd December, 2021.
9. **Coordinator for** One Day Webinar on IPR, Startups and Incubation organized by IQAC and Institution Innovation Council (IIC), Rajarshi Shahu Mahavidyalaya (Autonomous), Latur in collaboration with ASSOCHAM, New Delhi on 29th November 2021.
10. **Coordinator for** Workshop on ‘A Review of Mental Health of Young Adults during the Pandemic’ organized by Internal Quality Assurance Cell, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur on 18th October, 2021.
11. **Coordinator for** AICTE Training and Learning (ATAL) Academy Sponsored One Week Online Faculty Development Program (FDP) on Photonics organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur during 20.09.2021 to 24.09.2021.
12. **Convener for** One Day Online Workshop on “Intellectual Property Rights (IPR’s) and Patents” organized by IQAC and Institution Innovation Council (IIC), Rajarshi Shahu Mahavidyalaya (Autonomous), Latur in collaboration with Rajiv Gandhi National Institute of Intellectual Property Management (RGNIPM), Nagpur 15th March 2021.
13. **Coordinator for** AICTE Training and Learning (ATAL) Academy Sponsored One Week Online Faculty Development Program (FDP) on Photonics (Active Learning in Optics and Photonics) organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur during 03.11.2020 to 07.11.2020
14. **Convener for** National webinar on Soft Skills for Students in Higher Education organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 20th August, 2020

15. **Convener for** National webinar on Effects of Covid-19 on Higher Education organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 3rd July, 2020
16. **Organizing Secretary for** National webinar on E-Business Opportunities Post Covid-19 Era organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 20th June, 2020.
17. **Convener for** National webinar on COVID-19 & Digital Transformation in Higher Education organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur in collaboration with DigitalEdu IT Solutions Pvt. Ltd on 09th June, 2020.
18. **Convener for** Online Workshop on NAAC organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur in collaboration with RUSA, Govt. of Maharashtra, Mumbai and Joint Director Office, Higher Education, Nanded Region, Nanded on Saturday 06th June 2020.
19. **Convener for** National Webinar on Higher Education in India: Challenges and Solutions in Online Teaching and Evaluation organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur in collaboration with DigitalEdu IT Solutions Pvt. Ltd on 15th May, 2020.
20. **Convener for** One Day National Seminar on NAAC (RAF) related Quality Assurance Strategy Organized by Internal Quality Assurance Cell, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur 22th January, 2020.
21. **Member of Advisory Committee** for International Conference on Smart Materials and Nanotechnology (ICSMN-2020) organized by SKN Sinhgad College of Engineering, Pandharpur, Maharashtra during 02-04 January, 2020
22. **Convener for** One Day Workshop on Startups, Innovations and Intellectual Property Rights sponsored by Intellectual Property Office, Government of India and ASSOCHAM India on 16th July, 2019.
23. **Convener for** One Day Workshop on Intellectual Property Rights (IPR) Awareness for Teachers Jointly organized by Swami Ramanand Teerth Marathwada University, Nanded, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur and Patlex Business Solutions, Latur 16th February, 2019.
24. **Joint Organizing Secretary**, National Seminar on Present Scenario and Future Challenges of Autonomous Colleges organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 17-18 April 2017.

25. **Organizing Committee Member**, National Conference on “Material Science and Renewable Energy Sources” organized by Rajarshi Shahu Mahavidyalaya, Latur on 11th-12th March, 2016
26. **Organizing Committee Member**, National Seminar on “Physics of Materials and Photonic Devices” (NSPMPD) organized by Rajarshi Shahu Mahavidyalaya, Latur, 16-17 March 2012.
27. **Organizing Committee Member**, National seminar on Photonic materials and nanotechnology (NSPMN-2009), organized by Rajarshi Shahu Mahavidyalaya, Latur, 23-24 January 2009.

11. Involvement as Chairperson/ Jury for National International Conference:

1. Jury Member in Technical Session (Oral Presentations) at 2nd International Conference on Recent Advances in Material Science and Nanotechnology (RAMAN 22) organized by Department of Physics, G.S. Tompe Arts, Commerce and Science College, Chandur Bazar in collaboration with IQAC of Sant Gadge Baba Amravati University, Amravati on 12th to 14th May, 2022.
2. Examiner for Oral Session in Sixth International Conference on Advances in Materials Science (Online) (ICAMS-2021) organized by Post Graduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath on 23rd to 24th April, 2021
3. Chairman for technical session Three Day International Conference on Functional Materials @ Nanoscale: Concerns and Challenges (ICFMNCC-2015) organized by K. B. P. Mahavidyalaya, Pandharpur, Dist: Solapur (M.S.) India on 9th -11th March, 2015
4. Chairperson for Poster Presentation session of National Conference on Innovations in Computer Science, Communication and information technology R. S. Mahavidyalaya, Latur

12. Contribution as **Resource Person/ Invited Talk:**

1. Resource Person on the topic "**Stephen Hawking's A Brief History of Time**" in *Knowing a Book Lecture Series* organized Department of English, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur Maharashtra, India on 20th September 2022.
2. Resource Person on the topic "**Career Opportunities in Physics**" in e-seminar on "Career Opportunity in Physics" organised by IQAC & Department of Physics, Bahirji Smarak Mahavidyalaya, Basmatnagar, District Hingoli on 17th May 2022.
3. Resource Person on the topic "**Career Opportunities in Physics**" in One Day Workshop on "NET, SET preparation and Career opportunities in Physics" organized by Balwant College, Vita on 14th May 2022.
4. Resource Person on the topic "**Nanostructured Metal Oxide Thin Films for Supercapacitor Applications**" in DST-SERB Sponsored 2nd International Conference on Recent Advances in Material Science & Nanotechnology (RAMAN-2022), organized by G. S. Tompe Arts, Commerce & Science College, Chandur Bazar, Dist. Amravati in Collaboration with IQAC, SGBAU, Amravati during 12-14 May 2022 (13th May, 2022).
5. Resource Person on the topic "**Academic Writing**" in National Level Ten-days Online Research Methodology Program Sponsored by Western Region Center (WRC), Mumbai Indian Council of Social Science Research (ICSSR) organized by Rajarshi Shahu Mahavidyalaya (Autonomous), Latur Maharashtra, India on 27th April 2022.
6. Resource Person on the topic "**Career Opportunities in Physics**" in Guest Lecture Series under DBT Star College Scheme organized by Shri Shivaji Mahavidyalaya, Barshi on 26th March 2022.
7. Resource Person on the topic "**Career Opportunities in Physics**" in online Webinar cum Orientation Program on Career Opportunities in Physics Organized by Rayat Shikshan Sanstha's, Karmaveer Bhaurao Patil, College, Vashi, Navi Mumbai on 17th March 2022.
8. Resource Person on the topic "**Research Paper Writing**" in One Day Workshop on "Preparation of Research Manuscript: Basics, Ethics and Requisite" organized by Research Advisory Committee of Rajarshi Shahu Mahavidyalaya (Autonomous) Latur, Maharashtra, India on 17th February 2022.
9. Resource Person on the topic "**Best Practices in Implementing MOOC's Through SWAYAM**" in One Day Train the Trainer National Workshop on Massive Open Online Courses (MOOCS)" dated organized by B. P. Sulakhe Commerce College, Barshi in collaboration with P. A. H. Solapur University, Solapur on 10th Feb 2022.
10. Resource Person on the topic "**Nanostructured Metal Oxide Thin Films for Supercapacitor Applications**" in One week FDP and STTP on "NANOTECHNOLOGY: Synthesis, Characterization and Applications of Nanomaterials in Engineering & Science" organized by Bharati Vidyapeeth's College of Engineering, Kolhapur sponsored by Shivaji University, Kolhapur under Lead college activity in association with ISTE from 17th Jan. 2022 to 22nd Jan. 2022 (Online mode 17th Jan. 2022).

11. Resource Person on the topic **“Procedure for online Application of INSA”** at workshop on INSA- Summer Research Fellowship 2022 organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 26th October, 2021.
12. Resource Person on **“Research and Review Article Writing”** at One Day National workshop on ‘Research Paper and Review Article Writing’ organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 05th October 2021 (Online).
13. Resource person on **“IIQA and Making Self-Study Report for NAAC”** in One Day workshop on ‘Hassle-free Preparation of Self-Study Report for NAAC’ organized under UGC- Paramarsh scheme jointly by Dhote Bandhu Science College, Gondia (M.S.) and S. Chandra Mahila Mahavidyalaya, Sadak Arjuni (M.S.) on 29th September 2021 (Offline).
14. Invited Speaker on **“Preparation of Research Project Proposal and Funding Opportunities”** at Thakur College of Science and Commerce, Mumbai on 27th September 2021 (Online).
15. Resource Person on **“Photonic Research : Preparation of Project Proposal and Funding Opportunities”** in AICTE Training and Learning (ATAL) Academy Sponsored One Week Online Faculty Development Program (FDP) on Photonics (20.09.2021 to 24.09.2021) organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 24.09.2021 (Online).
16. Resource Person on **“Introduction to Photonics”** in AICTE Training and Learning (ATAL) Academy Sponsored One Week Online Faculty Development Program (FDP) on Photonics (20.09.2021 to 24.09.2021) organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 20.09.2021 (Online).
17. Resource person on **“Career Opportunities in Physics”** at UGC STRIDE Sponsored webinar on Students Capability Enhancement Program organized by Shri Shivaji College, Parbhani on 12th June, 2021.
18. Resource person on **“Nanostructured Metal Oxide Thin Films for Supercapacitor Applications”** at AICTE/ISTE Sponsored Induction/Refresher Programme on “Non-Conventional Energy Sources (Green Energy)” **Phase-III** Organized by Department of Mechanical Engineering and Department of Mechatronics, Sanjivani K. B. P. Polytechnic, Kopargaon on 21st May, 2021.
19. Resource person on **“Energy Scenario and Solar Energy Utilization”** at AICTE/ISTE Sponsored Induction/Refresher Programme on “Non-Conventional Energy Sources (Green Energy)” **Phase-III** organized by Department of Mechanical Engineering and Department of Mechatronics, Sanjivani K. B. P. Polytechnic, Kopargaon on 20th May, 2021.
20. Resource person on **“Nanostructured Metal Oxide Thin Films for Supercapacitor Applications”** at AICTE/ISTE Sponsored Induction/Refresher Programme on “Non-Conventional Energy Sources (Green Energy)” **Phase-II** Organized by Department of Mechanical Engineering and Department of Mechatronics, Sanjivani K. B. P. Polytechnic, Kopargaon on 26th April, 2021.

21. Resource person on “**Energy Scenario and Solar Energy Utilization**” at AICTE/ISTE Sponsored Induction/Refresher Programme on “Non-Conventional Energy Sources (Green Energy)” **Phase-II** Organized by Department of Mechanical Engineering and Department of Mechatronics, Sanjivani K. B. P. Polytechnic, Kopergaon on 23rd April, 2021.
22. Resource person on “**Preparation of Research Project Proposal and Funding Opportunities**” at Faculty Induction Programme, Under UGC PARAMARSH Scheme organized by Shri Shivaji College, Parbhani on 30th March, 2021
23. Resource person on “**Nanostructured Metal Oxide Thin Films for Supercapacitor Applications**” at AICTE/ISTE Sponsored Induction/Refresher Programme on “Non-Conventional Energy Sources (Green Energy)” **Phase-I** Organized by Department of Mechanical Engineering and Department of Mechatronics, Sanjivani K. B. P. Polytechnic, Kopergaon on 27th March, 2021.
24. Resource person on “**Energy Scenario and Solar Energy Utilization**” at AICTE/ISTE Sponsored Induction/Refresher Programme on “Non-Conventional Energy Sources (Green Energy)” **Phase-I** Organized by Department of Mechanical Engineering and Department of Mechatronics, Sanjivani K. B. P. Polytechnic, Kopergaon on 26th March, 2021.
25. Resource person on “**Data Verification and Validation (DVV)**” at Two Day National Webinar on “An Insight into the Revised Accreditation Framework of NAAC: IIQA, SSS and DVV” (ISD-2021) Under UGC PARAMARSH Scheme organized by Yashwant Mahavidyalaya Nanded on January 29, 2021.
26. Resource person on “**IIQA Filing & Student Satisfaction Survey (SSS)**” at Two Day National Webinar on “An Insight into the Revised Accreditation Framework of NAAC: IIQA, SSS and DVV” (ISD-2021) Under UGC PARAMARSH Scheme organized by Yeshwant Mahavidyalaya Nanded on January 28, 2021.
27. Resource person on “**Submission of Annual Quality Assurance Report (AQAR)**” at National Level e-Workshop on Online AQAR organized by Azad Mahavidyalaya, Ausa on January 18, 2021.
28. Resource person on “**Nanostructured Metal Oxide Thin Films for Supercapacitor Applications**” at International Conference on Material Science and Nanotechnology (e-ICMSN-2020) which was scheduled on 17-19 December, 2020 organized by Department of Physics, Dayanand Science College, Latur, Maharashtra (India).
29. Resource Person on “**Procedure for online Application of INSA**” at workshop on INSA- Summer Research Fellowship Programme 2021 organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on November 10, 2020.
30. Resource Person on “**Introduction to Active Learning in Optics and Photonics**” in AICTE Training and Learning (ATAL) Academy Sponsored One Week Online Faculty Development Program (FDP) on Photonics (Active Learning in Optics and Photonics) (03.11.2020 to 07.11.2020)

31. Invited lecture on **“NAAC- uploading SSR as per new guidelines”** organized by Maharashtra Institute of Medical Science & Research Latur on September 29, 2020.
32. Resource person for Guest Lecture on **“Academic Council: Composition, Functions and Accountability”** organized by New Arts Commerce and Science College Ahmednagar on September 27, 2020.
33. Resource person on **“Zoom as an Online Teaching Platform”** at One day National webinar on Zoom as an Online Teaching Platform at Azad Mahavidyalaya, Ausa on July 27, 2020.
34. Resource person on **“X-ray diffraction Basics and Applications”** at one week online Faculty Development Program (FDP) on Sophisticated Analytical Instruments: Principles and Applications to Chemical and Material Sciences (SAIPACMS-2020) jointly organized by Department of Chemical Engineering and Engineering Sciences, Sinhgad College of Engineering, Pune, during 21-25 July 2020.
35. Resource person on **“Understanding NAAC DVV Process”** in Mentee Institution Orientation Workshop II under UGC Paramarsh Scheme, organized by New Arts Commerce and Science College Ahmednagar on June 12, 2020.
36. Resource Person on **“Scientific Report Writing and Publications”** at State level workshop on Research Report Writing organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on January 30, 2020.
37. Invited Lecture on **“Energy Scenario and Solar Energy Utilization”** in International Conference on Advancements in Renewable Energy (ICARE-2020), organized by School of Physical Sciences Swami Ramanand Teerth Marathwada University, Nanded on 10-11 January, 2020.

12.B Paper presentation at National/International conferences

1. Oral presentation on the topic **“Higher Education in India: Technology-Enhanced Learning”** in Two Day National Level Conference on Teaching, Learning and Evaluation Methods: Traditional to Blended Approaches Organized by Internal Quality Assurance Cell (IQAC) of JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE (AUTONOMOUS), Mysuru during 11 & 12 July 2022.
2. Best paper award for Oral presentation on the topic **“Energy Scenario and Solar Energy Utilization”** in International Conference on Advancements in Renewable Energy (ICARE-2020) organized by School of Physical Sciences Swami Ramanand Teerth Marathwada University, Nanded on 10-11 January, 2020.
3. Best paper award for Oral presentation on the topic **“A study on low cost-high conducting fluorine doped tin oxide thin films”** at National conference on emerging trends in material science and communications organized by M.G. College, Ahmedpur on 13-14 March 2010.
4. Best paper award for Oral presentation on the topic **“Optical Properties of CdSSe thin films”** at UGC sponsored National Conference on Advanced Materials, sensors and

Instrumentation organized by DBF Dayanand College of Arts and Science, Solapur on 21-22 Jan 2011.

5. Best paper award for Oral presentation on the topic "Optoelectronic properties of fluorine doped tin oxide films prepared by spray pyrolysis" at National conference on Recent Trends in Physics and Laser Technology, organized by Gramin Mahavidyalaya, Mukhed on 29-30 August 2009.
6. Higher Education Reforms in Autonomous Colleges in India National Seminar on Present Scenario and Future Challenges of Autonomous Colleges R. S. Mahavidyalaya, Latur
7. Oral presentation on the topic "" in Three Day International Conference On Functional Materials @ Nanoscale: Concerns and Challenges (ICFMNCC-2015) organized by K. B. P. Mahavidyalaya, Pandharpur, Dist: Solapur (M.S.) India during March 9-11, 2015.
8. Oral presentation on the topic "Optical and electrical properties of spray deposited $\text{CdS}_{1-x}\text{Se}_x$ thin films" in National seminar on Nanostructured materials for advanced technology organized by K.B.P. College Pandharpur during 3-4, Oct 2011
9. Oral presentation on the topic "Optical Properties of CdSSe thin films" in UGC sponsored National Conference on Advanced Materials, sensors and Instrumentation organized by DBF Dayanand College of Arts and Science, Solapur during 21-22 Jan 2011.
10. Oral presentation on the topic "Synthesis and characterization of chemical bath deposited n-CdS thin films" in National conference on recent trends in thin film technology (RTTFT-2010), organized by Jijamata College of Science and Arts, Bhende, Ahmednagar during 23-24 February 2010.
11. Oral presentation on the topic "Effect of substrate temperature on the properties of fluorine doped tin oxide thin films" in International conference on "Advanced Materials and nanotechnology" organized by Abasaheb Garware college, Pune during 6-8 March, 2010
12. Oral presentation on the topic "A study on low cost-high conducting fluorine doped tin oxide thin films" in National conference on emerging trends in material science and communications organized by M.G. College, Ahmedpur during by 13-14 March 2010.
13. Oral presentation on the topic "Optical studies on spray deposited $\text{CdS}_{1-x}\text{Se}_x$ photonic materials" in National seminar on Photonic materials and nanotechnology (NSPMN-2009), organized Department of Physics and Electronics, Rajarshi Shahu Mahavidyalaya, Latur during 23-24 January 2009
14. Oral presentation on the topic "Studies on chemically grown CdSe:Sb thin film structures" International conference on advanced materials and applications (ICAMA-2007), organized by Department of Physics, Shivaji University, Kolhapur during 15-17 November 2007.

13. Professional development programmes attended:

Name of the Programme	Place	Duration	Sponsoring Agency
32 nd Orientation Programme	UGC-ASC J.N.T. University, Hyderabad	18/03/2013 to 18/04/2013	UGC- ASC
Refresher course	UGC-HRDC S.P.P. University, Pune	27/10/2014 to 16/11/2014	UGC-ASC
Refresher course	UGC-HRDC RDVV, Jabalpur	05/06/2017 to 24/06/2017	UGC-HRDC
Refresher course	UGC-HRDC RDVV, Jabalpur	15/10/2018 to 03/11/2018	UGC-HRDC
Online Refresher course on Governance and Leadership in Higher Education under	SWAYAM ARPIT, S.P.P. University, Pune	Nov 2018 to March 2019	UGC-HRDC
One week Faculty Development Programme in Cyber Security under	Shivaji University, Kolhapur and Rajarshi Shahu Mahavidyalaya, Latur	16/09/2019 to 21/09/2019	PMMMNMTT
Faculty Development Programme in Cyber Security	Department of Computer Science, Rajarshi Shahu Mahavidyalaya (Autonomous) Latur	One week 16.09.2019 to 21.09.2019	PMMMNMTT
One week Faculty Development Programme on Active Learning in Optics and Photonics	Department of Applied Physics, Defence Institute of Advanced Technology (DU), Girinagar, Pune 411025	08.12.2019 to 13.12.2019	UGC HRDC S.P.P. University, Pune under PMMMNMTT
Course on Learning Physics Through Simple Experiments	Centre for Continuing Education, Indian Institute of Technology Kanpur	02.04.2020 to 10.06.2020	Indian Institute of Technology Kanpur
Two Weeks Faculty Development Programme on "Managing Online Classes and Co-Creating MOOCS"	Online Teaching Learning Centre (TLC)	20.04.2020 to 06.05.2020	Ramanujan college, Delhi under PMMMNMTT
One Week National Faculty Development	Online Vidyalankar School of	20.04.2020 to 25.04.2020	Spoken Tutorial Project, IIT

Program and Online Training on Moodle Learning Management System	Information Technology - Mumbai		Bombay and Vidyalankar School of Information Technology – Mumbai
National level Webinar on NAAC Assessment and Accreditation – A revised accreditation framework for affiliated and Autonomous colleges	Online Kishinchand Chellaram College, Mumbai	21.04.2020 to 25.04.2020	Under UGC Paramarsh Scheme Kishinchand Chellaram College, Mumbai
Five-Days Faculty Development Program, an Online training on “SCILAB”	Online Department of Information Technology, S. K. Somaiya College of Arts, Science and Commerce Vidyavihar, Mumbai - 400 077.	21.04.2020 to 25.04.2020	Spoken Tutorial Project, IIT Bombay and S. K. Somaiya College of Arts, Science and Commerce Vidyavihar, Mumbai - 400 077.
One Week National Online Faculty Development Program ICT Tools for Effective Teaching Learning	Online, School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded	27.04.2020 to 02.05.2020	School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded
One Week National Faculty Development Program and Online Training on Scilab	Online Rajarshi Shahu Mahavidyalaya (Autonomous) Latur	01.05.2020 to 07.05.2020	Spoken Tutorial Project, IIT Bombay and Rajarshi Shahu Mahavidyalaya (Autonomous) Latur
Online Short Term Training Program on “MATLAB based Teaching-Learning in Mathematics, Science & Engineering”.	Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai	18.05.2020 to 22.05.2020	Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai in collaboration with DesignTech

			Systems Pvt Ltd, Mumbai
Online Faculty Development Program on R Software	Online IQAC & Department Of Computer Science,	18.05.2020 to 25.05.2020	Spoken Tutorial Project, IIT Bombay and Thakur College of Science and Commerce, Mumbai
UGC Paramarsh Online Faculty Development programme on NAAC Assessment and Accreditation”	Online Internal Quality Assurance Cell, Shivaji College Parbhani	21.05.2020 to 26.05.2020	Internal Quality Assurance Cell, Shivaji College Parbhani
Faculty Development Programme “Five Days Online FDP On e-content Development for Teachers”	Online School of Education, Savitribai Phule Pune University, Pune	01.06.2020 to 05.06.2020	Human Resource Development Centre (UGC-HRDC), Savitribai Phule Pune University, Pune
Faculty Development Programme of “Five Days Online FDP on Green Energy and Renewable Energy for Physics and Electronics Teachers”	Online Tapi Valley Education Society's Dhanaji Nana Mahavidyalaya, Faizpur Dist-Jalgaon (MS)	08.06.2020 to 12.06.2020	Human Resource Development Centre (UGC-HRDC), Savitribai Phule Pune University, Pune
Faculty Development Program on Resurgence of Mental Health During Uncertain Times and Beyond	Online Department of Psychology, Savitribai Phule Pune University, Pune - 411007	14.06.2020 to 20.06.2020	Human Resource Development Centre (UGC-HRDC), Savitribai Phule Pune University, Pune
One Week Faculty Development Program on “ Modern Educational Tools and Pedagogical Practices for Online Teaching”	Online Vidyalankar Institute of Technology, Mumbai	21.06.2020 to 25.06.2020	Vidyalankar Institute of Technology, Mumbai
Three Days Online National Workshop For NSS program Officers and Students Development Officers on Managing Stress and Sustaining Well-Being of the students	Online KTHM College, Nashik	01.07.2020 to 03.07.2020	Human Resource Development Centre (UGC-HRDC), Savitribai Phule Pune University, Pune

and Society during and after pandemic period			
Faculty Development Programme On Earth & Environment Responses During COVID - 19	Online Department of Environmental Science, Savitribai Phule Pune University, Pune - 411007	11.07.2020 to 17.07.2020	Human Resource Development Centre (UGC-HRDC), Savitribai Phule Pune University, Pune
Faculty Development Program on Nanomaterials Characterization Techniques & Results Analysis Methodology: Ideas Innovations & Initiatives	Shikshan Prasarak Sanstha's S. N. Arts, D. J. Malpani Commerce and B. N. Sarda Science autonomous College, Sangamner	27.07.2020 to 31.07.2020	Human Resource Development Centre (UGC-HRDC), Savitribai Phule Pune University, Pune
Online Faculty Development Programme on "New Trends in Higher Education: NEP2020 and Pedagogical Transformation"	New Arts, Commerce and Science College, Ahmednagar	22.09.2020 to 28.09.2020	Human Resource Development Centre (UGC-HRDC), Savitribai Phule Pune University, Pune
One Week Online Faculty Development Program (FDP) On Photonics (Active Learning in Optics and Photonics)	Online Rajarshi Shahu Mahavidyalaya (Autonomous) Latur	03.11.2020 to 07.11.2020	AICTE Training and Learning (ATAL) Academy
Science Academies 3 Days Virtual Lecture Workshop on Quantum Mechanics and Electronics	Online	01.01.2021 to 03.01.2021	Dayanand Science College Latur
One Week Faculty Development Program (FDP) On "NAAC: AQAR Submission in the revised format"	Online	01.02.2021 to 06.02.2021	Bharatiya Vidya Bhavans
One week Faculty Development Programme on Curriculum Design and	Online	22.02.2021 to 27.02.2021	Sangamner College, RUSA and TISS, Mumbai.

Pedagogy for Autonomous Colleges			
Refresher Course on Teacher and Teaching in Higher Education	Online	01.12.2020 to 31.03.2021	SWAYAM ARPIT, S.P.P. University, Pune
Virtual Faculty Development Programme on Revised NAAC Framework	Online	29.03.2021 To 03.04.2021	The Oxford College of Business Management, Bangalore
UGC-STRIDE Online Lecture Series Program	Online	07.04.2021 to 10.04.2021	Department of Physics, Shivaji University, Kolhapur.
5 day Online State Level Faculty Development Programme organised by BMCC-IQAC and RUSA, Maharashtra on "Confluence of Revised Guidelines of IQAC-NAAC to AUTONOMY"	Online	29.05.2021 to 03.06.2021	Rashtriya Uchchar Shiksha Abhiyan, Maharashtra & Deccan Education Society's Brihan Maharashtra College of Commerce (Autonomous), Pune
Online Elementary FDP On Personal Effectiveness	Online	07.06.2021 to 11.06.2021	International Management Institute Kolkata
FDP on "New Education Policy in Higher Education - Context & Perspectives"	Online	01.07.2021 to 07.07.2021	AICTE Training and Learning (ATAL) Academy
FDP on "New Education Policy in Higher Education - Context & Perspectives"	Online	01.07.2021 to 07.07.2021	Rashtriya Uchchar Shiksha Abhiyan (RUSA)
One Week Online Faculty Development Program (FDP) On Photonics	Online	20.09.2021 to 24.09.2021	AICTE Training and Learning (ATAL) Academy
NPTEL-AICTE Faculty Development Programme on Physics of Renewable Energy Systems	Online	July 2021 to Oct 2021	IIT, Kharagpur
			SWAYAM-NPTEL

Indira Faculty Efficiency Enhancement Program under FDP	Online Indira College of Commerce and Science, Pune	09.11.2021 to 13.11.2021	Human Resource Development Centre (UGC-HRDC), Savitribai Phule Pune University, Pune
Maharashtra State Development of Educators and Enhancement in Delivery (MS-DEED) Program for Maharashtra State Science and Mathematics Teachers from Higher Education Institutes	PMMMNMTT Centre of Excellence in Science and Mathematics Education (CoESME), at IISER Pune	14.12.2021 to 16.12.2021	PMMMNMTT Centre of Excellence in Science and Mathematics Education (CoESME), at IISER Pune
4 Day Online Faculty Development Programme on Revised Manual of SSR	Online	08.06.2022 to 11.06.2022	IQAC, Immanuel College, Dimapur in collaboration with IQAC Cluster India.
One Week (Online) Professional Development Programme on "Recent Developments in Renewable Energy"	Online Department of Mechanical Engineering, Amity School of Engineering and Technology, Noida	20.06.2022 to 24.06.2022	DST-SERB sponsored and organized by Department of Mechanical Engineering, Amity School of Engineering and Technology, Noida
Professional Development Programme on Implementation of NEP-2020 for University and College Teachers	Online Approved by: University Grants Commission Implemented by: Indira Gandhi National Open University	21.09.2022 to 29.09.2022	Under Pandit Madan Mohan Malaviya National Mission on Teachers & Teaching Ministry of Education, Government of India

14. Conferences/ Workshops/ Webinars/Seminars/ Symposium attended:

1. Online Training Workshop on IPR–Patents, Designs Process organized by Institution Innovation Council and IQAC, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur in collaboration with Rajiv Gandhi National Institute of Intellectual Property Management, Nagpur on 25th January, 2022
2. One Day Webinar on IPR, Startups and Incubation organized by IQAC and Institution Innovation Council (IIC), Rajarshi Shahu Mahavidyalaya (Autonomous), Latur in collaboration with ASSOCHAM, New Delhi on 29th November 2021.
3. XRD for Research and Orthogonal Data Analysis Workshop organized by Malvern Panalytical & IIT Jammu on 6th-7th July, 2021
4. One Day Online Workshop on “Intellectual Property Rights (IPR’s) and Patents” organized by IQAC and Institution Innovation Council (IIC), Rajarshi Shahu Mahavidyalaya (Autonomous), Latur in collaboration with Rajiv Gandhi National Institute of Intellectual Property Management (RGNIPM), Nagpur 15th March 2021. International Conference on “Digitalisation of Library” collaboratively organised by Chintamani College of Commerce, Pombhurna and Chintamani Mahavidyalaya, Pombhurna, District Chandrapur, MS, India on 20th May, 2021.
5. State Level Capacity Building Workshop for Teaching and Supporting Staff: Documentation for Career Advancement Scheme of Teachers and Information on Code of Conduct for Staff and Students held at R. J. College (Mumbai) from 6th April, 2021.
6. International Conference on Nanomaterials & Nanotechnology-2021 (ICONN-2021)” organized by Department of Physics, University of Mumbai held on 25th to 27th March, 2021
7. UGC CPE Sponsored One Day National Symposium on "Nanoscience and Nanotechnology” organized by Department of Physics, Science College Nanded on 31st January 2021.
8. One day International Seminar on “Energy Storage and Conversion Devices” organized by Department of Physics, Karmaveer Bhaurao Patil College, Vashi under the Aegis of RUSA on 12th January, 2021.

9. Online NAAC Sponsored Conference on the topic " Reforms and Benchmarks in NAAC Accreditation -20202 Onwards" organized by Kamla Nehru Mahavidyalaya, Nagpur on 8th January 2021
10. National Online Workshop on Strategies for Effective Online Teaching organized by Department of English, Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 15th December, 2020.
11. National Online Seminar on Mystery of Crater Lake-Lonar, India organized by Department of Geography, Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 11th July, 2020
12. National webinar on COVID-19 & Digital Transformation in Higher Education organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur in collaboration with DigitalEdu IT Solutions Pvt. Ltd on 09th June, 2020.
13. Online Workshop on NAAC organized by Rajarshi Shahu Mahavidyalaya (Autonomous) Latur in collaboration with RUSA, Govt. of Maharashtra, Mumbai and Joint Director Office, Higher Education, Nanded Region, Nanded on Saturday 06th June, 2020.
14. National webinar Assessment & Evaluations in the wake of COVID-19 organized by IQAC, Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 15th May, 2020.
15. National Level webinar on "Changing Scenario in Higher Education: Evaluation Reforms" organized by IQAC & Departments of Basic Sciences, Thakur College of Science and Commerce, Mumbai on 8th May, 2020
16. National Level webinar on "Pandemic COVID-19: An Overview" organized by IQAC & Departments of Basic Sciences, Thakur College of Science and Commerce, Mumbai on 6th May, 2020
17. National Level webinar on "Empowering India: Role of Teachers and Researchers (Post COVID-19)" organized by IQAC & Departments of Basic Sciences, Thakur College of Science and Commerce, Mumbai on 4th May, 2020
18. Webinar on "MAKING FACULTIES TECHNOLOGY READY" organized by Teach Us in collaboration with IQAC – Cosmopolitan's Valia College of Commerce and Arts on 02nd May, 2020.
19. Webinar on "NAAC Revised Accreditation Framework 2020" organized by Rubrics Softcon Private Limited, Pune held on 30th April, 2020.

20. National Level One Webinar On “Effective Presentation Skills-Using ICT Tools” jointly organized by Knowledge Publications and Chemtoons YouTube Channel held on 26th April, 2020
21. Webinar on Bharat Padhe and Parkhe Online organized by Wheebox held on 17th April, 2020
22. Online webinar on the Topic Teach from Home: Opportunity for transforming Education organized by EdFly held on 16th April, 2020
23. National Webinar on Fundamentals of Outcome Based Education organized by Inpods on 21st March, 2020
24. International conference on Advancements in Renewable Energy at Swami Ramanand Teerth Marathwada University, Nanded, during 10th-11th January, 2020.
25. One Day National Workshop on Startups, innovations and Intellectual Property Rights at Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 16th July, 2019.
26. One Day National Workshop on Startups, innovations and Intellectual Property Rights at Rajarshi Shahu Mahavidyalaya (Autonomous) Latur on 16th February, 2019.
27. UGC sponsored One-day National level seminar on “Revised Accreditation Framework” organized by Shri Shivaji College, Parbhani on 1st September 2017
28. Group Monitoring Workshop organized by SERB New Delhi at Pondicherry University, Pondicherry on 9th March, 2017.
29. National Seminar on Present Scenario and Future Challenges of Autonomous Colleges on 17th -18th April 2017 organized by Rajarshi Shahu Mahavidyalaya, Latur
30. National Conference on “Material Science and Renewable Energy Sources”. Organized by Rajarshi Shahu Mahavidyalaya, Latur on 11th-12th March, 2016
31. Three-Day International Conference On Functional Materials @ Nanoscale: Concerns and Challenges (ICFMNCC-2015) organized by K. B. P. Mahavidyalaya, Pandharpur, Dist: Solapur (M.S.) India during 9th -11th March, 2015
32. UGC sponsored National seminar on Higher Education and Employment Opportunities, at Anjuman College, Vijapur on 21 Feb 2014
33. National seminar on Advanced synthesis of Nanomaterials and their applications, at K B P College, Pandharpur on 17-18 Sep. 2012

34. Examiner for Oral Session in the Sixth International Conference on Advances in Material Science (Online) (ICAMS-2021) organized by Postgraduate Department of Physics and IQAC of Raje Ramrao Mahavidyalaya, Jath 413404 Dist Sangli during 23-24 April 2021.

15 Publications:

Google Scholar Data	
Publications	65
Citations	1878
h-index	26
i10-index	44

A) Papers Published in the International Journals:

1. R Chandrashekhar, AA Yadav, Spray-deposited cobalt-doped RuO₂ electrodes for high-performance supercapacitors, *Electrochimica Acta* 437 (2023) 141521
2. Vidyadevi A. Jundale, Dilip A. Patil, **Abhijit A. Yadav**, Preparation and characterization of NiFe₂O₄ thin films for supercapacitor applications, *Phase Transitions* 95 (11) (2022) 786-802.
3. Vidyadevi A. Jundale, **Abhijit A. Yadav**, Precursor solution concentration-dependent electrochemical properties of CoFe₂O₄ thin films, *Journal of Materials Science: Materials in Electronics* 33(24) (2022) 19612–19626
4. **Abhijit A. Yadav**, Physical and electrochemical properties of spray deposited Co₃O₄ thin films, *Phase Transitions* 94:10 (2021) 691-704.
5. Nandkishor Manoharrao Patil, Santosh G. Nilange, Vidyadevi A. Jundale, Pratibha B. Kadam, Chandrashekhar R., **Abhijit A. Yadav**, Structural, optical and electrical properties of spray-deposited Fe-doped nanocrystalline ZnS_{0.2}Se_{0.8} thin films, *Phase Transitions* 94 (6-8) (2021) 493–510.
6. Vidyadevi A. Jundale, Dilip A. Patil, Ganesh Y. Chorage, **Abhijit A. Yadav**, Mesoporous cobalt ferrite thin film for supercapacitor applications, *Materials Today: Proceedings* 43 (2021) 2711-2715.
7. Vidyadevi A. Jundale, Ganesh Y. Chorage, **Abhijit A. Yadav**, Structural, morphological and optical properties of CoFe₂O₄ thin film by spray pyrolysis technique, *Materials Today: Proceedings* 43 (2021) 2678-2681.
8. Nandkishor M. Patil, Santosh G. Nilange, **Abhijit A. Yadav**, Photoelectrochemical performance of spray-deposited Fe-doped ZnS_{0.2}Se_{0.8} thin films, *Solar Energy* 191 (2019) 1-6. **(IF: 4.674)** ISSN: 0038-092X.
9. Santosh G. Nilange, Nandkishor M. Patil, **Abhijit A. Yadav**, Growth and characterization of spray deposited quaternary Cu₂FeSnS₄ semiconductor thin films, *Physica B: Condensed Matter* 560 (2019) 103-110 **(IF: 1.874)**. ISSN: 0921-4526
10. Santosh G. Nilange, Nandkishor M. Patil, **Abhijit A. Yadav**, Influence of precursor thiourea contents on the properties of spray deposited Cu₂FeSnS₄ thin films, *Physica B: Condensed Matter* 570 (2019) 73-81 **(IF: 1.874)**. ISSN: 0921-4526
11. Nandkishor M. Patil, Santosh G. Nilange, **Abhijit A. Yadav**, Properties of spray deposited ZnS_xSe_{1-x} thin films for photoelectrochemical solar cell application, *Journal*

- of Materials Science: Materials in Electronics 30 (2019) 1647–1653 (IF: 2.195). ISSN: 0957-4522
12. A.G. Naiknaware, J.U. Chavan, S.H. Kaldate, **A.A. Yadav**, Studies on spray deposited Ni doped Mn₃O₄ electrodes for supercapacitor applications, *Journal of Alloys and Compounds* 774 (2018) 787-794 (IF: 4.175). ISSN: 0925-8388
 13. N.M. Patil, S.G. Nilange, **A.A. Yadav**, Growth and characterization of ZnS_xSe_{1-x} thin films deposited by spray pyrolysis, *Thin Solid Films* 664 (2018) 19-26. ISSN: 0040-6090
 14. **A. A. Yadav**, U.J. Chavan, Electrochemical Supercapacitive Performance of Spray-Deposited NiO Electrodes, *Journal of Electronic Materials* 47 (7) (2018) 3770-3778 (IF: 1.579). ISSN: 0361-5235
 15. S.D. Jagadale, A.M. Teli, S.V. Kalake, A.D. Sawant, **A.A. Yadav**, P.S. Patil, Review Functionalized crown ether assisted morphological tuning of CuO nanosheets for electrochemical supercapacitors, *Journal of Electroanalytical Chemistry* 816 (2018) 99–106 (IF: 3.012) ISSN: 1572-6657.
 16. Samina K. Tadavi, **Abhijit A. Yadav**, Ratnamala S. Bendre, Synthesis and characterization of a novel schiff base of 1,2-diaminopropane with substituted salicylaldehyde and its transition metal complexes: Single crystal structures and biological activities, *Journal of Molecular Structure* 1152 (2018) 223-231 (IF: 1.753). ISSN: 0022-2860
 17. **A.A. Yadav**, U.J. Chavan, Electrochemical supercapacitive performance of spray deposited Co₃O₄ thin film nanostructures, *Electrochimica Acta* 232 (2017) 370-376 (IF: 4.803).
 18. **A.A. Yadav**, U.J. Chavan, Electrochemical supercapacitive performance of spray deposited NiSnO₃ thin films, *Thin Solid Films* 634 (2017) 33-39 (IF: 1.761).
 19. U.J. Chavan, **A.A. Yadav**, Electrochemical behavior of spray deposited mixed nickel manganese oxide thin films for supercapacitor applications, *Journal of Materials Science: Materials in Electronics* 28 (2017) 4958-4964. (IF: 1.798).
 20. **A.A. Yadav**, U.J. Chavan, Influence of substrate temperature on electrochemical supercapacitive performance of spray deposited nickel oxide thin films, *Journal of Electroanalytical Chemistry* 782 (2016) 36–42. (IF: 2.822).
 21. **A.A. Yadav**, S.N. Jadhav, D.M. Chougule, P.D. Patil, U.J. Chavan, Y.D. Kolekar, Spray deposited Hausmannite Mn₃O₄ thin films using aqueous/organic solvent mixture for supercapacitor applications, *Electrochimica Acta* 206 (2016) 134-142. (IF: 4.803).
 22. **A. A. Yadav**, T.B. Deshmukh, R.V. Deshmukh, D.D. Patil, U.J. Chavan, Electrochemical supercapacitive performance of Hematite α -Fe₂O₃ thin films prepared by spray pyrolysis from non-aqueous medium, *Thin Solid Films* 616 (2016) 351–358. (IF: 1.761).
 23. **A. A. Yadav**, Preparation and electrochemical properties of spray deposited α -Fe₂O₃ from nonaqueous medium for supercapacitor applications, *Journal of Materials Science: Materials in Electronics* 27 (2016) 12876–12883. (IF: 1.798).

24. **A.A. Yadav**, Influence of electrode mass-loading on the properties of spray deposited Mn_3O_4 thin films for electrochemical supercapacitors, **Thin Solid Films** **608** (2016) **88-96** (IF: 1.761).
25. **A. A. Yadav**, "Spray deposition of tin oxide thin films for supercapacitor applications: effect of solution molarity" **Journal of Materials Science: Materials in Electronics**, **27** (2016) **6985-6991** [Impact factor: 1.798; Citations:-00]
26. **A. A. Yadav**, "Photovoltaic characteristics of photoelectrochemical cell formed with indium-doped CdSSe thin film electrodes" **Journal of Materials Science: Materials in Electronics** **27** (2016) **4508-4515** [Impact factor: 1.798; Citations:-00]
27. **A. A. Yadav**, SC Pawar, DH Patil, MD Ghogare "Properties of (200) oriented, highly conductive SnO_2 thin films by chemical spray pyrolysis from non-aqueous medium: Effect of antimony doping" **Journal of Alloys and Compounds** **652** (2015) **145-152** [Impact factor: 3.00; Citations:-01] ISSN: 0925-8388
28. **A. A. Yadav**, " SnO_2 thin film electrodes deposited by spray pyrolysis for electrochemical supercapacitor applications" **Journal of Materials Science: Materials in Electronics, J Mater Sci: Mater Electron** (2016) **27:1866-1872** [Impact factor: 1.57; Citations:-00]
29. U. J. Chavan, **A.A. Yadav**, Optical and photovoltaic properties of CuSe thin films, **International Education & Research Journal [IERJ]** **2** (10) (2016) **59-61**.
30. U. J. Chavan, **A. A. Yadav**, Structural, optical and electrical properties of chemical bath deposited NiO thin films, **International Journal of Engineering Sciences & Research Technology** **5**(10) (2016) **282-287**.
31. **A. A. Yadav**, "Influence of film thickness on structural, optical, and electrical properties of spray deposited antimony doped SnO_2 thin films" **Thin Solid Films** **591** (2015) **18-24**. [Impact factor: 1.76; Citations:-01]
32. **A.A. Yadav**, S.D. Salunke, "Properties of spray deposited nanocrystalline indium selenide thin films" **Journal of Materials Science: Materials in Electronics** **26** (2015) **5416-5425** [Impact factor: 1.57; Citations:-03]
33. **A. A. Yadav**, S.D. Salunke, "Photoelectrochemical Properties of In_2Se_3 Thin Films: Effect of substrate temperature" **Journal of Alloys and Compounds** **640** (2015) **534-539** [Impact factor: 3.00; Citations:-01] ISSN: 0925-8388

34. L. S. Ravangave, S. D. Misal, **A. A. Yadav**, M.A. Barote, Photoelectrochemical properties of chemically deposited $Cd_{1-x}Mn_xS$ thin films, **IJSR - International Journal of Scientific Research** 4 (8) (2015) 709-710. [Impact factor: -; Citations:-]
35. **A. A. Yadav**, "Photoelectrochemical studies on spray deposited copper selenide thin films" **Journal of Materials Science: Materials in Electronics** 25 (2014) 3096–3102. [Impact factor: **1.57**; Citations:-**02**]
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39. M.A. Barote, S.S. Kamble, **A.A. Yadav**, E.U. Masumdar "Optical and electrical characterization of chemical bath deposited Cd–Pb–S thin films", **Thin Solid Films**, 526 (2012) 97-102 [Impact factor: **1.76**; Citations:**04**]
40. M.A. Barote, S.S. Kamble, **A.A. Yadav**, R.V. Suryavanshi, L.P. Deshmukh, E.U. Masumdar, "Thickness dependence of $Cd_{0.825}Pb_{0.175}S$ thin film properties" **Materials Letters**, 78 (2012) 113-115 [Impact factor: **2.489**; Citations:**07**].
41. **A.A. Yadav**, E.U. Masumdar, "Photoelectrochemical performances indium-doped $CdS_{0.2}Se_{0.8}$ thin film electrodes prepared by spray pyrolysis" **Electrochimica Acta** 56 (2011) 6406– 6410 [Impact Factor: **4.504**; Citations:**08**]
42. **A.A. Yadav**, E.U. Masumdar, "Photoelectrochemical investigations of cadmium sulphide (CdS) thin film electrodes prepared by spray pyrolysis" **Journal of Alloys and Compounds, Volume** 509 (2011) 5394-5399 [Impact Factor: **3.00**; Citations:**26**] ISSN: 0925-8388
43. M.A. Barote, **A.A. Yadav**, E.U. Masumdar, "Synthesis, characterization and photoelectrochemical properties of n-CdS thin films" **Physica B: Condensed Matter** 406 (2011) 1865-1871 [Impact Factor: **1.32**; Citations:**22**]

44. **A.A. Yadav**, M.A. Barote, T.V. Chavan, E.U. Masumdar, "Influence of indium doping on the properties of spray deposited CdS_{0.2}Se_{0.8} thin films" **Journal of Alloys and Compounds** 509 (2011) 916-921 [Impact Factor: **3.00**; Citations:**07**] ISSN: 0925-8388
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46. **A.A. Yadav**, E.U. Masumdar, "Optical and electrical transport properties of spray deposited CdS_{1-x}Se_x thin films" **Journal of Alloys and Compounds** 505 (2010) 787-792 [Impact Factor: **3.00**; Citations:**18**]
47. **A.A. Yadav**, E.U. Masumdar, "Photoelectrochemical performances of n-CdS_{1-x}Se_x thin films prepared by spray pyrolysis technique" **Solar Energy** 84 (2010) 1445-1453 [Impact Factor: **3.469**; Citations:**25**]
48. **A.A. Yadav**, M.A. Barote, E.U. Masumdar, "Studies on nanocrystalline cadmium sulphide (CdS) thin films deposited by spray pyrolysis" **Solid State Sciences** 12 (2010) 1173-1177 [Impact Factor: **1.84**; Citations:**24**]
49. **A.A. Yadav**, M.A. Barote, E.U. Masumdar, "Studies on cadmium selenide (CdSe) thin films deposited by spray pyrolysis" **Materials Chemistry and Physics** 121 (2010) 53-57 [Impact Factor: **2.26**; Citations: **69**]
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52. **A.A. Yadav**, E.U. Masumdar, A.V. Moholkar, M. Neumann-Spallart, K.Y. Rajpure, C.H. Bhosale, "Electrical, structural and optical properties of SnO₂: F thin films: Effect of the substrate temperature" **Journal of Alloys and Compounds** 488 (2009) 350-355 [Impact Factor: **3.00**; Citations: **57**]
53. **A.A. Yadav**, E.U. Masumdar, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale, "Effect of quantity of spraying solution on the properties of spray deposited fluorine doped tin

- oxide thin films" **Physica B: Condensed Matter** 404 (2009) 1874-1877 [Impact Factor: **1.32**; Citations: **29**]
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