

Curriculum vitae

- 1. Name** : Dr Abhijit Audumbar Yadav
- 2. Qualification** : M.Sc., SET, Ph. D.
- 3. Designation** : Assistant Professor of Physics
Rajarshi Shahu Mahavidyalaya, Latur (Autonomous).
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.
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:

- **State level “Snashdhan ratana” (Star Researcher) Award-2016** by Mahatama Jyotirao Phule Shikshak Parishd, 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 **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 Frequency Sensor Association,
- American Nano-society,
- Local Managing Committee of Rajarshi Shahu Mahavidyalaya, Latur (Autonomous) (2016-2020).
- **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, Latur (Autonomous).
- **Member, Board of Studies in Physics, Electronics, Zoology, Mathematics and Biotechnology**, Rajarshi Shahu Mahavidyalaya, Latur (Autonomous).
- **Member, Academic Council, Rajarshi Shahu Mahavidyalaya, Latur (Autonomous).**
- **Coordinator, IQAC, Rajarshi Shahu Mahavidyalaya, Latur (Autonomous).**
- **Member, NAAC Steering Committee (Cycle III of A and A process) Rajarshi Shahu Mahavidyalaya, Latur (Autonomous).**
- **Chairman, Criterion I, NAAC A and A process (Cycle III) Rajarshi Shahu Mahavidyalaya, Latur (Autonomous).**

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	Working
3.	Mr. S.G. Nilange	Studies on chemically synthesized Cu ₂ FeSnS ₄ thin films	23/02/2016	Working
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	Working
5.	Chandrashekhar R.	Growth and Characterization of Undoped and doped RuO ₂ thin Films for Electrochemical Supercapacitor Applications	30/07/2016	Working

10. Professional development programmes attended:

Name of the Programme	Place	Duration	Sponsoring Agency
32 nd Orientation Programme	J.N.T. University, Hyderabad	18/03/2013 to 18/04/2013	UGC- ASC
Refresher course	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

11. Conferences attended during last 05 Years:

1. National seminar on Advanced synthesis of Nanomaterials and their applications, at K B P College, Pandharpur on 17-18 Sep. 2012
2. UGC sponsored National seminar on Higher Education and Employment Opportunities, at Anjuman College, Vijapur on 21 Feb 2014
3. Three Day International Conference On Functional Materials @ Nanoscale: Concerns and Challenges (ICFMNCC-2015) March 9-11, 2015. Organized K. B. P. Mahavidyalaya, Pandharpur, Dist: Solapur (M.S.) India
4. Group Monitoring Workshop organized by SERB New Delhi at Pondicherry University, Pondicherry on 9 th March, 2017.
5. UGC sponsored One-day National level seminar on “ Revised Accreditation Framework” organized by Shri Shivaji College, Parbhani on 1 st Sep 2017

12 Publications:

Google Scholar Data	
Publications	56
Citations	1108
h-index	18
i10-index	32

A) Papers Published in the International Journals:

1. 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

2. Santosh G. Nilange, Nandkishor M. Patil, **Abhijit A. Yadav**, Influence of precursor thiourea contents on the properties of spray deposited $\text{Cu}_2\text{FeSnS}_4$ thin films, *Physica B: Condensed Matter* 570 (2019) 73-81 (**IF: 1.874**). ISSN: 0921-4526
3. Nandkishor M. Patil, Santosh G. Nilange, **Abhijit A. Yadav**, Properties of spray deposited $\text{ZnS}_x\text{Se}_{1-x}$ thin films for photoelectrochemical solar cell application, *Journal of Materials Science: Materials in Electronics* 30 (2019) 1647–1653 (**IF: 2.195**). ISSN: 0957-4522
4. A.G. Naiknaware, J.U. Chavan, S.H. Kaldate, **A.A. Yadav**, Studies on spray deposited Ni doped Mn_3O_4 electrodes for supercapacitor applications, *Journal of Alloys and Compounds* 774 (2018) 787-794 (**IF: 4.175**). ISSN: 0925-8388
5. N.M. Patil, S.G. Nilange, **A.A. Yadav**, Growth and characterization of $\text{ZnS}_x\text{Se}_{1-x}$ thin films deposited by spray pyrolysis, *Thin Solid Films* 664 (2018) 19-26. ISSN: 0040-6090
6. **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**).
7. 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**).
8. 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**).
9. **A.A. Yadav**, U.J. Chavan, Electrochemical supercapacitive performance of spray deposited Co_3O_4 thin film nanostructures, *Electrochimica Acta* 232 (2017) 370-376 (**IF: 4.803**).
10. **A.A. Yadav**, U.J. Chavan, Electrochemical supercapacitive performance of spray deposited NiSnO_3 thin films, *Thin Solid Films* 634 (2017) 33-39 (**IF: 1.761**).
11. 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**).
12. **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**).
13. **A.A. Yadav**, S.N. Jadhav, D.M. Chougule, P.D. Patil, U.J. Chavan, Y.D. Kolekar, Spray deposited Hausmannite Mn_3O_4 thin films using aqueous/organic solvent mixture for supercapacitor applications, *Electrochimica Acta* 206 (2016) 134-142. (**IF: 4.803**).
14. **A. A. Yadav**, T.B. Deshmukh, R.V. Deshmukh, D.D. Patil, U.J. Chavan, Electrochemical supercapacitive performance of Hematite $\alpha\text{-Fe}_2\text{O}_3$ thin films prepared by spray pyrolysis from non-aqueous medium, *Thin Solid Films* 616 (2016) 351–358. (**IF: 1.761**).
15. **A. A. Yadav**, Preparation and electrochemical properties of spray deposited $\alpha\text{-Fe}_2\text{O}_3$ from nonaqueous medium for supercapacitor applications, *Journal of Materials Science: Materials in Electronics* 27 (2016) 12876–12883. (**IF: 1.798**).

16. **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**).
17. **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**]
18. **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**]
19. **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
20. **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**]
21. U. J. Chavan, **A.A. Yadav**, Optical and photovoltaic properties of CuSe thin films, **International Education & Research Journal [IERJ]** **2** (10) (2016) **59-61**.
22. 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**.
23. **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**]
24. **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**]
25. **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

26. 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:--]
27. **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**]
28. **A. A. Yadav**, "Nanocrystalline copper selenide thin films by chemical spray pyrolysis" **Journal of Materials Science: Materials in Electronics** 25 (2014)1251–1257. [Impact factor: **1.57**; Citations:-**07**]
29. **A. A. Yadav**, "Effect of Fe-incorporation on photovoltaic characteristics of nano structured CdSe thin films", **Journal of Alloys and Compounds** 552 (2013) 318–323 [Impact factor: **3.00**; Citations:-**05**] ISSN: 0925-8388
30. **A. A. Yadav**, "Synthesis and characterization of Fe doped cadmium selenide thin films by spray pyrolysis", **Journal of Alloys and Compounds** 543 (2012) 129–134 [Impact factor: **3.00**; Citations: **07**] ISSN: 0925-8388
31. 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**]
32. 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**].
33. **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**]
34. **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
35. 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**]

36. **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
37. **A.A. Yadav**, E.U. Masumdar, "Preparation and characterization of indium doped CdS_{0.2}Se_{0.8} thin films by spray pyrolysis" **Materials Research Bulletin** 45 (2010) 1455-1459 [Impact Factor: **2.29**; Citations:**15**]
38. **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**]
39. **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**]
40. **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**]
41. **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**]
42. **A.A. Yadav**, M.A. Barote, E.U. Masumdar, "Photoelectrochemical properties of spray deposited n-CdSe thin films" **Solar Energy** 84 (2010) 763-770 [Impact Factor: **3.469**; Citations: **24**]
43. **A.A. Yadav**, M.A. Barote, P.M. Dongre, E.U. Masumdar, "Studies on growth and characterization of CdS_{1-x}Se_x (0.0 ≤ x ≤ 1.0) alloy thin films by spray pyrolysis" **Journal of Alloys and Compounds** 493 (2010) 179-185 [Impact Factor: **3.00**; Citations: **25**]
44. **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**]
45. **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**]
46. **A.A. Yadav**, M. A. Barote, E.U. Masumdar, "A photoelectrochemical performance studies of CdSe: Sb electrolyte cell" **Chalcogenide Letters** 6 (4) (2009) 149-153 [Impact Factor: **1.184**; Citations: **11**]
47. **A.A. Yadav**, M.A. Barote, E.U. Masumdar, "Compositional analysis studies of chemically synthesized antimony doped CdSe thin films" **Chalcogenide Letters** 5 (12) (2008) 405-414 [Impact Factor: **0.91**; Citations: **06**]
48. **A.A. Yadav**, E.U. Masumdar, A.V. Moholkar, K.Y. Rajpure, C.H. Bhosale, "Gas Sensing of Fluorine Doped Tin Oxide Thin Films Prepared by Spray Pyrolysis" **Sensors & Transducers Journal** 92 (2008) 55-60 [Impact Factor: **0.705**; Citations: **05**]
49. M. A. Barote, **A. A. Yadav**, L. P. Deshmukh, E. U. Masumdar, "Synthesis and characterization of chemically deposited Cd_{1-x}Pb_xS thin films", **Journal of Non-Oxide Glasses**, 2 (3) (2010) 151-165 [Impact Factor: --; Citations: **08**]
50. M. A. Barote, **A. A. Yadav**, E. U. Masumdar, "Effect of deposition parameters on growth and characterization of chemically deposited Cd_{1-x}Pb_xS thin films" **Chalcogenide Letters** 8 (2) (2011) 129-138 [Impact Factor: **0.91**; Citations: **05**]
51. M. A. Barote, **A. A. Yadav**, T. V. Chavan, E. U. Masumdar, "Characterization and photoelectrochemical properties of chemical bath deposited n-PbS thin films" **Digest Journal Of Nanomaterials and Biostructures** 6 (3) (2011) 979 - 990 [Impact Factor: **0.95**; Citations: **17**]
52. M. A. Barote, **A. A. Yadav**, R. V. Suryawanshi, E. U. Masumdar, "Effect of Pb incorporation on energy band gap of CdS thin films", **Journal of Ovonic Research** 7 (3) (2011) 45-50 [Impact Factor: **0.49**; Citations: **06**]
53. Barote Maqbul A., Ingale Babasaheb D., Tingre Govind D., **Yadav Abhijit A.**, Surywanshi Rangrao V., Masumdar Elahipasha U., "Some Studies on Chemically Deposited n-PbSe Thin Films" **Research Journal of Chemical Sciences** 1(9) (2011) 37-41 [Impact Factor: **0.3725** ; Citations: **07**]
54. Barote Maqbul A., **Yadav Abhijit A.**, Surywanshi Rangrao V., Deshmukh Lalasaheb P., Masumdar Elahipasha U., "Chemical Bath Deposited PbSe Thin Films: Optical and Electrical Transport Properties" **Research Journal of Chemical Sciences** 2(1), (2012) 15-19 [Impact Factor: **0.3725**; Citations: **02**]

55. M. A. Barote, **A. A. Yadav**, E. U. Masumdar, "Effect of Thickness on Structural, Optical and Electrical Properties of Chemically Grown $\text{Cd}_{0.825}\text{Pb}_{0.175}\text{S}$ Thin Films", **Journal of Chemical, Biological and Physical Sciences**, 3 (2012) 510-521. [Impact Factor: **0.723**; Citations:--]
56. M. A. Barote, **A. A. Yadav**, T. V. Chavan, E. U. Masumdar, Characterization and photoelectrochemical properties of chemical bath deposited n-PbS thin films, *Optoelectronics And Advanced Materials-Rapid Communications* 04 (2011) 5(4):387-392. [Impact Factor: **0.39**; Citations:--]

B) Papers Presented/Accepted at National/International Conferences/Seminars:

1. M.H. Gavhane, **A.A. Yadav**, Higher Education Reforms: Academic Autonomy to Higher Educational Institutes, Book *New Dimensions in Higher Education*. (2018) Page 52-55. ISBN: 978-93-5240-194-9.
2. **A.A. Yadav**, S.D. Bhandare, V.D. Panchal, Higher Education Reforms in Autonomous Colleges in India, National Seminar on Present Scenario and Future Challenges of Autonomous Colleges on 17-18 April 2017 organized by R. S. Mahavidyalaya, Latur Pages 105-110 [ISBN: 978-93-84810-29-0].
3. S.D. Bhandare, **A.A. Yadav**, Present scenario of academic autonomy at RSML, National Seminar on Present Scenario and Future Challenges of Autonomous Colleges on 17-18 April 2017 organized by R. S. Mahavidyalaya, Latur Pages 66-74. [ISBN: 978-93-84810-29-0].
4. U.J. Chavan, **A.A. Yadav**, Supercapacitive performance of spray deposited Co_3O_4 thin films, *Proceedings of International Conference on Advances in Materials Science (ICAMS-2016)* organized by R. R. College, Jath, on 7th–8th December, 2016 Page 34-36 [ISBN: 978-93-5254-490-5].
5. U.J. Chavan, **A. A. Yadav**, "Effect of concentration on structural and electrical properties of spray deposited NiO thin films" *Proceedings of National Conference on "Material Science and Renewable Energy Sources"*. Organized by Rajarshi Shahu Mahavidyalaya, Latur on 11th – 12th March, 2016 Page 27-33 [ISBN: 978-93-84810-17-7]

6. **A. A. Yadav**, T.B. Deshmukh, R.V. Deshmukh, D.D. Patil, U. J. Chavan, "Fe₂O₃ thin film prepared by spray pyrolysis for supercapacitor applications, Proceedings of National Conference on "Material Science and Renewable Energy Sources". Organized by Rajarshi Shahu Mahavidyalaya, Latur on 11th – 12th March, 2016 Page 84-89, [ISBN: 978-93-84810-17-7]
7. **A. A. Yadav**, "Optoelectronic properties of spray deposited nanocrystalline copper selenide thin films for solar cell applications" Proceedings of **International Conference on Functional Materials @ Nanoscale: Concerns and Challenges** (ICFMNCC-2015) 155-156, organized by Karmaveer Bhaurao Patil Mahavidyala, Pandharpur, Dist. Solapur (M.S.) India on 09-11 March 2015. (ISBN - 978-81-930740-0-8)
8. **A. A. Yadav**, S. C. Pawar, D. H. Patil, M. D. Ghogare, S.N. Jadhav, D.M. Chougule, P.D. Patil, "Properties of Spray Deposited SnO₂ Thin Films From Non-Aqueous Medium: Effect of Antimony Doping", Proceedings of **International Conference on Functional Materials @ Nanoscale: Concerns and Challenges** (ICFMNCC-2015) 155-156, organized by Karmaveer Bhaurao Patil Mahavidyala, Pandharpur, Dist. Solapur (M.S.) India on 09-11 March 2015. (ISBN - 978-81-930740-0-8)
9. **A. A. Yadav**, "Properties of spray deposited nanocrystalline CdS thin films" **National Conference on nanotechnology organized by Maharashtra Mahavidyalaya, Nilanga on 07-08 Sep 2012**
10. **A. A. Yadav**, E. U. Masumdar, "Optical and electrical properties of spray deposited CdS_{1-x}Se_x thin films" **National Seminar on Nanostructured Materials for Advanced Technology, Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur, 3-4 October 2011.**
11. **A. A. Yadav**, C. S. Mali, E. U. Masumdar, "Properties of spray deposited CdS_{1-x}Se_x thin films" **National conference on advanced Nanomaterials, sensors and instrumentation, D. B. F. Dayanand College of Arts and Science, Solapur, 21-22 January 2011.**
12. **A. A. Yadav**, C. S. Mali, E. U. Masumdar, "Optical properties of spray deposited CdS_{1-x}Se_x thin films", **International Conference on Contemporary Trends in Optics and Optoelectronics, Indian Institute of Space Science and Technology, Thiruvananthapuram, 17-19 January 2011.**

13. **A. A. Yadav**, C. S. Mali, E. U. Masumdar, "Properties of fluorine doped tin oxide thin films for optoelectronic applications", **International Conference on Contemporary Trends in Optics and Optoelectronics, Indian Institute of Space Science and Technology, Thiruvananthapuram, 17-19 January 2011.**
14. **A.A. Yadav**, M.A. Barote, E.U. Masumdar, "Properties of spray deposited cadmium selenide (CdSe) thin films" **National Seminar on Advanced Materials (NSAM-2010), Shivaji University, Kolhapur, 19-20 March 2010.**
15. M.A. Barote, **A.A. Yadav**, E.U. Masumdar, "Growth mechanism and characterization of chemically synthesized $Cd_{1-x}Pb_xS$ thin films" **National Seminar on Advanced Materials (NSAM-2010), Shivaji University, Kolhapur, 19-20 March 2010.**
16. **A.A. Yadav**, M.A. Barote, R.V. Suryawanshi, R.N. Kendre, C.S. Mali, E.U. Masumdar, "A study on low cost-high conducting fluorine doped tin oxide thin films" **National conference on emerging trends in material science and communications, M.G. College, Ahmedpur, 13-14 March 2010.**
17. M.A. Barote, **A.A. Yadav**, E.U. Masumdar, "Chemically synthesized $Cd_{1-x}Pb_xS$ thin films: Growth and characterization" **National conference on emerging trends in material science and communications (ETMSC-2010), M.G. College, Ahmedpur, 13-14 March 2010.**
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