

## Curriculum vitae

- 1. Name** : Dr Abhijit Audumbar Yadav  
**2. Qualification** : M.Sc., SET, Ph. D.  
**3. Designation** : Assistant Professor in Physics  
**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.  
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 9<sup>th</sup> 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).
- Member, IQAC, 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 <sub>3</sub> and NiMoO <sub>4</sub> thin Films for Electrochemical Supercapacitor Applications	23/02/2016	Working
2.	Shri N.M. Patil	Growth and Characterization of ZnS <sub>x</sub> Se <sub>1-x</sub> Thin Films for Photoelectrochemical Solar Cell Applications	23/02/2016	Working
3.	Mr. S.G. Nilange	Studies on chemically synthesized Cu <sub>2</sub> FeSnS <sub>4</sub> thin films	23/02/2016	Working
4.	Ms. V. A. Jundale	Preparation and Characterization of NiFe <sub>2</sub> O <sub>4</sub> and CoFe <sub>2</sub> O <sub>4</sub> Thin Films for Electrochemical Supercapacitor Applications	23/02/2016	Working
5.	Chandrashekhar R.	Growth and Characterization of Undoped and doped RuO <sub>2</sub> thin Films for Electrochemical Supercapacitor Applications	30/07/2016	Working

### 10. Professional development programmes attended:

Name of the Programme	Place	Duration	Sponsoring Agency
32 <sup>nd</sup> Orientation	J.N.T. University,	18/03/2013 to	UGC- ASC

Programme	Hyderabad	18/04/2013	
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

### 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 <sup>th</sup> March, 2017.
5. UGC sponsored One-day National level seminar on “ Revised Accreditation Framework” organized by Shri Shivaji College, Parbhani on 1 <sup>st</sup> Sep 2017

### 12 Publications:

Particulars	During last 05 Years	Total
International Journal	25	49
Conference Proceedings	08	26

### A) Papers Published in the International Journals:

1. 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)**.
2. **A.A. Yadav**, U.J. Chavan, Electrochemical supercapacitive performance of spray deposited  $\text{Co}_3\text{O}_4$  thin film nanostructures, **Electrochimica Acta 232 (2017) 370-376 (IF: 4.803)**.
3. **A.A. Yadav**, U.J. Chavan, Electrochemical supercapacitive performance of spray deposited  $\text{NiSnO}_3$  thin films, **Thin Solid Films 634 (2017) 33-39 (IF: 1.761)**.
4. 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)**.
5. **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)**.

6. **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).
7. **A. A. Yadav**, T.B. Deshmukh, R.V. Deshmukh, D.D. Patil, U.J. Chavan, Electrochemical supercapacitive performance of Hematite  $\alpha-Fe_2O_3$  thin films prepared by spray pyrolysis from non-aqueous medium, **Thin Solid Films** **616** (2016) 351-358. (IF: 1.761).
8. **A. A. Yadav**, Preparation and electrochemical properties of spray deposited  $\alpha-Fe_2O_3$  from nonaqueous medium for supercapacitor applications, **Journal of Materials Science: Materials in Electronics** **27** (2016) 12876-12883. (IF: 1.798).
9. **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).
10. **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]
11. **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]
12. **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]
13. **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]
14. U. J. Chavan, **A.A. Yadav**, Optical and photovoltaic properties of CuSe thin films, **International Education & Research Journal [IERJ]** **2** (10) (2016) 59-61.
15. 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.
16. **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]

17. **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**]
18. **A. A. Yadav**, S.D. Salunke, "Photoelectrochemical Properties of In<sub>2</sub>Se<sub>3</sub> Thin Films: Effect of substrate temperature" **Journal of Alloys and Compounds** 640 (2015) 534-539 [Impact factor: **3.00**; Citations:-**01**]
19. L. S. Ravangave, S. D. Misal, **A. A. Yadav**, M.A. Barote, Photoelectrochemical properties of chemically deposited Cd<sub>1-x</sub>Mn<sub>x</sub>S thin films, IJSR - **International Journal of Scientific Research** 4 (8) (2015) 709-710. [Impact factor: -; Citations:--]
20. **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**]
21. **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**]
22. **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**]
23. **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**]
24. 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**]
25. M.A. Barote, S.S. Kamble, **A.A. Yadav**, R.V. Suryavanshi, L.P. Deshmukh, E.U. Masumdar, "Thickness dependence of Cd<sub>0.825</sub>Pb<sub>0.175</sub>S thin film properties" **Materials Letters**, 78 (2012) 113-115 [Impact factor: **2.489**; Citations:**07**].
26. **A.A. Yadav**, E.U. Masumdar, "Photoelectrochemical performances indium-doped CdS<sub>0.2</sub>Se<sub>0.8</sub> thin film electrodes prepared by spray pyrolysis" **Electrochimica Acta** 56 (2011) 6406– 6410 [Impact Factor: **4.504**; Citations:**08**]

27. **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**]
28. 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**]
29. **A.A. Yadav**, M.A. Barote, T.V. Chavan, E.U. Masumdar, "Influence of indium doping on the properties of spray deposited CdS<sub>0.2</sub>Se<sub>0.8</sub> thin films" **Journal of Alloys and Compounds** 509 (2011) 916-921 [Impact Factor: **3.00**; Citations:**07**]
30. **A.A. Yadav**, E.U. Masumdar, "Preparation and characterization of indium doped CdS<sub>0.2</sub>Se<sub>0.8</sub> thin films by spray pyrolysis" **Materials Research Bulletin** 45 (2010) 1455-1459 [Impact Factor: **2.29**; Citations:**15**]
31. **A.A. Yadav**, E.U. Masumdar, "Optical and electrical transport properties of spray deposited CdS<sub>1-x</sub>Se<sub>x</sub> thin films" **Journal of Alloys and Compounds** 505 (2010) 787-792 [Impact Factor: **3.00**; Citations:**18**]
32. **A.A. Yadav**, E.U. Masumdar, "Photoelectrochemical performances of n-CdS<sub>1-x</sub>Se<sub>x</sub> thin films prepared by spray pyrolysis technique" **Solar Energy** 84 (2010) 1445-1453 [Impact Factor: **3.469**; Citations:**25**]
33. **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**]
34. **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**]
35. **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**]
36. **A.A. Yadav**, M.A. Barote, P.M. Dongre, E.U. Masumdar, "Studies on growth and characterization of CdS<sub>1-x</sub>Se<sub>x</sub> (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**]

37. **A.A. Yadav**, E.U. Masumdar, A.V. Moholkar, M. Neumann-Spallart, K.Y. Rajpure, C.H. Bhosale, "Electrical, structural and optical properties of SnO<sub>2</sub>: F thin films: Effect of the substrate temperature" **Journal of Alloys and Compounds** 488 (2009) 350-355 [Impact Factor: **3.00**; Citations: **57**]
38. **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**]
39. **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**]
40. **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**]
41. **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**]
42. M. A. Barote, **A. A. Yadav**, L. P. Deshmukh, E. U. Masumdar, "Synthesis and characterization of chemically deposited Cd<sub>1-x</sub>Pb<sub>x</sub>S thin films", **Journal of Non-Oxide Glasses**, 2 (3) (2010) 151-165 [Impact Factor: --; Citations: **08**]
43. M. A. Barote, **A. A. Yadav**, E. U. Masumdar, "Effect of deposition parameters on growth and characterization of chemically deposited Cd<sub>1-x</sub>Pb<sub>x</sub>S thin films" **Chalcogenide Letters** 8 (2) (2011) 129-138 [Impact Factor: **0.91**; Citations: **05**]
44. 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**]
45. 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**]

46. 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**]
47. 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**]
48. 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:--]
49. 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. **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].
2. 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].
3. U.J. Chavan, **A.A. Yadav**, Supercapacitive performance of spray deposited  $\text{Co}_3\text{O}_4$  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].
4. 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 11<sup>th</sup> – 12<sup>th</sup> March, 2016 Page 27-33 [ ISBN: 978-93-84810-17-7]

5. **A. A. Yadav**, T.B. Deshmukh, R.V. Deshmukh, D.D. Patil, U. J. Chavan, “Fe<sub>2</sub>O<sub>3</sub> 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 11<sup>th</sup> – 12<sup>th</sup> March, 2016 Page 84-89, [ ISBN: 978-93-84810-17-7]

6. **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)

7. **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 SnO<sub>2</sub> 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)

8. **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**

9. **A. A. Yadav**, E. U. Masumdar, “Optical and electrical properties of spray deposited CdS<sub>1-x</sub>Se<sub>x</sub> thin films” **National Seminar on Nanostructured Materials for Advanced Technology, Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur, 3-4 October 2011.**

10. **A. A. Yadav**, C. S. Mali, E. U. Masumdar, “Properties of spray deposited CdS<sub>1-x</sub>Se<sub>x</sub> thin films” **National conference on advanced Nanomaterials, sensors and instrumentation, D. B. F. Dayanand College of Arts and Science, Solapur, 21-22 January 2011.**

11. **A. A. Yadav**, C. S. Mali, E. U. Masumdar, "Optical properties of spray deposited CdS<sub>1-x</sub>Se<sub>x</sub> thin films", **International Conference on Contemporary Trends in Optics and Optoelectronics, Indian Institute of Space Science and Technology, Thiruvananthapuram, 17-19 January 2011.**
12. **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.**
13. **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.**
14. M.A. Barote, **A.A. Yadav**, E.U. Masumdar, "Growth mechanism and characterization of chemically synthesized Cd<sub>1-x</sub>Pb<sub>x</sub>S thin films" **National Seminar on Advanced Materials (NSAM-2010), Shivaji University, Kolhapur, 19-20 March 2010.**
15. **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.**
16. M.A. Barote, **A.A. Yadav**, E.U. Masumdar, "Chemically synthesized Cd<sub>1-x</sub>Pb<sub>x</sub>S 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.**
17. **A.A. Yadav**, M.A. Barote, E.U. Masumdar, "Structural, optical and electrical properties of spray deposited cadmium selenide (CdSe) thin films" **National conference on recent trends in thin film technology (RTTFT-2010), Jijamata College of Science and Arts, Bhende, Ahmednagar, 23-24 February 2010.**
18. M.A. Barote, **A.A. Yadav**, E.U. Masumdar, "Synthesis and characterization of chemical bath deposited n-CdS thin films" **National conference on recent trends in thin film technology (RTTFT-2010), Jijamata College of Science and Arts, Bhende, Ahmednagar, 23-24 February 2010.**

19. M.A. Barote, *A.A. Yadav*, E.U. Masumdar, "Structural Characterization of Chemically Deposited Cadmium Lead Sulphide Thin Films" **International conference on nanotechnology and biosensors (ICNB 2010), Raghu Engineering College, Dakamarri, Visakhapatnam, 20-21 January 2010.**
20. M.A. Barote, *A.A. Yadav*, E.U. Masumdar, "Growth mechanism and characterization of chemically bath deposited  $Cd_{1-x}Pb_xS$  thin films" **State level seminar on nanoscience and nanotechnology-present scenario, K. M. J. Mahavidyalaya, Washi, Osmanabad, 21 November 2009.**
21. *A.A. Yadav*, M.A. Barote, U. V. Biradar, C. S. Mali, E.U. Masumdar, "Optoelectronic properties of fluorine doped tin oxide thin films prepared by spray pyrolysis" **National conference on recent trends in physics and laser technology, Gramin Mahavidyalaya, Vasantnagar, Mukhed, 29-30 Aug. 2009.**
22. M.A. Barote, *A.A. Yadav*, U.V. Biradar, E.U. Masumdar, "Studies on growth mechanism of chemically synthesized  $Cd_{1-x}Pb_xS$  thin films" **National conference on recent trends in physics and laser technology, Gramin Mahavidyalaya, Vasantnagar, Mukhed, 29-30 August 2009.**
23. *A.A. Yadav*, M.A. Barote, E.U. Masumdar, "Optical studies on spray deposited  $CdS_{1-x}Se_x$  photonic materials" **National seminar on Photonic materials and nanotechnology (NSPMN-2009), Rajarshi Shahu Mahavidyalaya, Latur, 23-24 January 2009.**
24. E.U. Masumdar, *A.A. Yadav*, M.A. Barote, L.P. Deshmukh, "Solution grown CdSe: Sb thin film structures: growth and characterization" **National conference on recent trends in thin film technology (WCS-RTTFT-08), Walchand College of Science, Solapur, 14-15 November 2008.**
25. E.U. Masumdar, *A.A. Yadav*, M.A. Barote, L.P. Deshmukh, "Chemically synthesized CdSe: Sb electrode for photoelectrochemical applications" **National conference on recent trends in thin film technology (WCS-RTTFT-08), Walchand College of Science, Solapur, 14-15 November 2008.**
26. M.A. Barote, *A.A. Yadav*, E.U. Masumdar, "Studies on chemically grown CdSe: Sb thin film structures" **International conference on advanced materials and applications, Shivaji University, Kolhapur, 15-17 November 2007.**