

## Format for CV



**Name: Dr. Sadekar Harishchandra Kadubal**

### Personal Details:-

|                    |                                   |             |         |
|--------------------|-----------------------------------|-------------|---------|
| Name               | First Name                        | Middle Name | Surname |
| Department         | Dr. Sadekar Harishchandra Kadubal |             |         |
| Qualification(s)   | M.Sc., M.Phil, Ph.D.              |             |         |
| e- Mail ID         | sadekarhk@gmail.com               |             |         |
| Contact (i) Office | 02427231384                       |             |         |
| (ii) Residential   | 9527428738                        |             |         |

### Member of Committees

| Sr. No. | College committees         | University /Other committees |
|---------|----------------------------|------------------------------|
| 1       | Chairman- NAAC Crit. IV    | LIC, Unipune                 |
| 2       | Coordinator YCMOU BA/B.Com | Teachers Interview, Unipune  |
| 3       | AISHE                      |                              |
| 4       | Audio Visual Committee     |                              |

### AND ACADEMIC PERFORMANCE INDEX

(1) Academic performance index (Last 5 years -2011-2016) API: .....

### RESEARCH ACTIVITIES

(i) **Area of Research Interest** – Nanomaterials, Material Science (Thin Films)

(ii) **Research Publications**

(i) Total No. of Publications : **16 (08 Journals+08 Proceedings)**

(ii) Total impact factor of publications : **15.605**

(iii) Total papers in indexed journals and SNIP/SJR : **Indexed Journals-7, SNIP/SJR-3**

(iv) Total research citation and h-index : Citation-**58**, h-Index-**4**)

(v) List of publications ( Last five years)

#### a. National International Journals

| Sr.No | Title of Paper   | Name of Journal<br>Vol no. Page<br>no. | ISBN/ISSN<br>No | Impact<br>Factor<br>SNIP<br>SJR | Citations |
|-------|--|--|-----------------|---------------------------------|-----------|
| 1     | Growth, structural, optical and electrical study of ZnS thin films | Journal of Alloys and Compounds        | ISSN 0925-8388  | 3.014<br>1.393<br>1.006         | 27        |

|   |  |  |  |  |    |
|---|--|--|--|--|----|
|   | deposited by solution growth technique (SGT)   | Vol-453(1)<br>Page-519-524<br>Pub. Year 2008   |  |  |    |
| 2 | Bandgap engineering by substitution of S by Se in nanostructured ZnS 1- x Se x thin films grown by soft chemical route for nontoxic optoelectronic device applications | Journal of Alloys and Compounds<br>Vol-453(1)<br>Page-5525-5531<br>Pub. Year 2011                  | ISSN 0925-8388                               | 3.014<br>1.393<br>1.006                                    | 13 |
| 3 | Effect of Post-deposition Heat Treatment on the Physical Properties of SILAR Grown Tin Disulfide   | Journal of Scientific Review<br>Vol-4 (1)<br>Page-196-202<br>Pub. Year 2012                        | E-ISSN-0975-0754                             |  |    |
| 4 | Nanocrystalline ZnSe thin films prepared by solution growth technique for photosensor application  | Composites Part B: Engineering<br>Vol-44 (1)<br>Page-553-557<br>Pub. Year 2013                     | ISSN: 1359-8368                              | 3.850<br>2.083<br>2.125                                    | 11 |
| 5 | Optical, Structural and Surface Morphology Properties of PbSe Thin Film Deposited By Chemical Bath Deposition  | International Journal of Chemical and Physical Sciences<br>Vol-3<br>Page-109-103<br>Pub. Year 2014 | ISSN:2319-6602                               | ISRA Impact Factor 1.815<br><br>Cosmos Impact Factor 3.265 |    |
| 6 | Chemical Bath Deposition of PbS Thin Film for Window layer of Thin film Solar cells  | BIONANO FRONTIER<br>Vol-8(3)<br>Page-187-188<br>Pub. Year 2015                                     | Print ISSN 0974-0678<br>and Online 2320-9593 | 4.856  |    |
| 7 | Fabrication of CdSe Thin Film for Photosensor Applications   | International Journal of Innovations in Engineering and Technology<br><br>Vol-5<br>Page-35-41      |  | 0.672  | 7  |

|   |                               |  |                |  |  |
|---|-------------------------------|--|----------------|--|--|
|   |                               | Pub. Year 2015   |                |  |  |
| 8 | Required Improvements in IQAC | Sanshodhan Samiksha (Peer reviewed international journal) Pages- 104-106 <b>January-2016</b> | ISSN 2278-9308 |  |  |

**b. National/International Conference Proceedings**

| Sr.No | Title of Paper   | Name of Authors   | Name of Proceeding Year, Page no.  | Publisher ISBN/ISSN No     |
|-------|--|---|--|----------------------------|
| 1     | Nanostructured ZnS <sub>0.6</sub> Se <sub>0.4</sub> thin film by chemical bath deposition          | <b>Harishchandra K. Sadekar</b> and ramphal Sharma  | Proceeding of National Seminar on Advances in Nanostructured Materials and their applications <b>January-2013</b> Page-130-133 | ISBN 978-93-82414-41-4     |
| 2     | Nanostructured ZnSe Thin Films Prepared by Chemical Bath Deposition for Solar cell applications    | <b>Harishchandra K. Sadekar</b> , Sunil R. Gosavi and Ramphal Sharma  | NCANAP2013 PROCEEDING 254 -256 <b>(Feb.2013)</b>   | ISBN No. 798-81-924820-3-3 |
| 3     | Effect of annealing on the optoelectronic properties of CuSe thin film for Solar cell applications | Sunil R. Gosavi , <b>Harishchandra K. Sadekar</b> , and Ramphal Sharma  | NCANAP2013 PROCEEDING 254 -256 <b>(Feb.2013)</b>   | ISBN No. 798-81-924820-3-3 |
| 4     | Synthesis and characterization of HCL doped polyaniline thin film for gas sensor application.      | Mahajan S.V., Upadhye D.S., Shaikh S.U., Birajadar R.B., Siddiqui F.Y., Desale D.J., <b>Sadekar H.K.</b> ,                    | NCANAP2013 PROCEEDING 254 -256 <b>(Feb.2013)</b>   | ISBN No. 798-81-924820-3-3 |
| 5     | Annealing effect on chemically grown Ag doped nanostructured CdS/Cu S thin films                   | Vidya S. Taur, Rajesh A. Joshi, Deepak S. Upadhye, Sandip V. Mahajan, <b>Harishchandra K. Sadekar</b> , Sunil Gosavi, Ramphal | NCANAP2013 PROCEEDING 254 -256 <b>(Feb.2013)</b>   | ISBN No. 798-81-924820-3-3 |

|    |  |  |   |                           |
|----|--|--|---|---------------------------|
| 6  | Optical and structural characteristics of PbS thin film deposited by solution growth technique                 | <b>Harishchandra K. sadekar</b>                    | Proceeding on National conference on Material advances for better future<br>44-47<br><b>January-2015</b>                    | ISBN<br>978-93-83870-20-2 |
| 7  | Deposition of CdSe thin film for photovoltaic applications   | <b>Harishchandra K. sadekar</b>                    | Proceeding on state level conference on Recent Trends in Material science<br><b>February-2016</b><br>Pages- 65-70           | ISBN<br>978-93-5158-599-2 |
| 8  | Fabrication of titanium oxide thin films at low temperature from aqueous solutions by chemical bath deposition | <b>Harishchandra K. Sadekar</b> and Ramphal sharma | Proceeding on National Conference on Nanomaterials Imperatives in the new millennium<br><b>October 2016</b><br>Pages- 77-79 | ISBN<br>978-93-83993-95-6 |
| 9  | Optical and structural properties of CuSe thin films deposited by chemical bath deposition technique           | <b>Harishchandra K. Sadekar</b>                    | International Research Journal of Science and Engineering<br>January 2018<br>Pages-20-22                                    | ISSN<br>2322-0015         |
| 10 | Role of electrification in the Rural development   | <b>Harishchandra K. Sadekar</b>                    | International Research Journal of Science and Engineering<br>January 2018<br>Pages-20-22                                    | ISSN<br>2322-0015         |

**(iii) Research Projects**

| <b>Title of the Project</b>  | <b>Name of the funding Agency</b> | <b>Duration</b> | <b>Amount in Rs.</b> | <b>Completed / Ongoing</b> |
|--|-----------------------------------|-----------------|----------------------|----------------------------|
| Growth and characterization of ZnS <sub>1-x</sub> Se <sub>x</sub> thin films for photovoltaic applications | BCUD, University of pune          | 2008-2010       | 200000               | Completed                  |
| Growth and characterization of CdS <sub>1-x</sub> Te <sub>x</sub> thin films for photovoltaic applications | UGC                               | 2009-2011       | 120000               | Completed                  |

**BOOKS PUBLISHED:**

| <b>Sr. No.</b> | <b>Name of the book</b>   | <b>Author(s)</b>             | <b>ISBN No.</b>   | <b>Year</b> | <b>Publisher</b> |
|----------------|---------------------------|------------------------------|-------------------|-------------|------------------|
| 1              | Physics of nanomaterials  | Dr. Harishchandra K. Sadekar | 978-93-5158-485-8 | 2015        | Success Pune     |
| 2              | Classical Electrodynamics | Dr. Harishchandra K. Sadekar | 978-93-5158-485-8 | 2015        | Success Pune     |

**BOOKS EDITED**

| <b>Sr.No.</b> | <b>Theme</b>   | <b>Editor/Author</b>  | <b>Period</b>             |
|---------------|--|---|---------------------------|
| 1             | National Conference on Nanomaterials: Applications and Properties                  | <b>Editor</b><br>Dr. Sadekar H.K.,<br>Department of Physics<br>Arts, Commerce & Science<br>College, Sonai | 22,23<br>February<br>2013 |
| 2             | Abstract book on National Conference on Nanomaterials: Applications and Properties | <b>Editor</b><br>Dr. Sadekar H.K.,<br>Department of Physics<br>Arts, Commerce & Science<br>College, Sonai | 22,23<br>February<br>2013 |

**SEMINARS / CONFERENCES / SYMPOSIA AND WORKSHOPS PAPER PRESENTATION**

| <b>Sr. No.</b> | <b>Title of the seminar/ conference/Symposium</b> | <b>Place where organized</b>                  | <b>Title of the paper presented</b>  | <b>State/ National/ International</b> | <b>Date</b>              |
|----------------|---|---|--|---------------------------------------|--------------------------|
| 1              | International Conference ICONSAT 2012             | Nanomission, DST, Govt. of India at Hyderabad | Growth and optoelectronic properties of Nanocrystalline ZnSe thin films prepared by solution growth technique for Photosensor applications | International                         | 20-23<br>January<br>2012 |
| 2              | National Workshop on Nanotechnology               | Dr. BAM University,                           | Effect of S:Se on photosensor  | National                              | 16-17<br>February        |

|   |  |   |   |               |                      |
|---|--|---|---|---------------|----------------------|
|   |  | Aurangabad  | characteristics of nanostructured n-ZnS <sub>1-x</sub> Se <sub>x</sub> /P-Cu <sub>2</sub> S thin films        |               | 2012                 |
| 3 | State level seminar on Non conventional energy                                   | Pimpalgaon-Pisa College   | Chemical bath Deposition of ZnS thin films for Solar cell Applications  | State         | 17-18 February 2012  |
| 4 | National seminar on Advances in Nano structured Materials and their applications | C.H.C Arts, S.G.P. Commerce and B.B.J.P. Science College, Taloda                            | Nanostructured ZnS <sub>0.6</sub> Se <sub>0.4</sub> thin films by chemical bath deposition                    | National      | 22-23 January 2013.  |
| 5 | National Conference on Emerging Trends in Nanoscience                            | Arts, Commerce and science College, Ozar (Mig), Dist-Nashik                                 | Optical, Structural and Surface Morphology Properties of PbSe Thin Film Deposited By Chemical Bath Deposition | National      | 23-24, December 2014 |
| 6 | National Conference on Material Advances for better future                       | Jijamata College of science and arts, dnyaneshwarnagar, Bhende, tal-Newasa, Dist-Ahmednagar | Optical and Structural Characteristics of PbS Thin Film Deposited by Solution Growth Technique                | National      | 16-17 January 2015   |
| 7 | International Conference on Functional Materials and Microwaves (ICFMM-2015)     | Dr. Babasaheb ambedkar Marathwada University, Aurangabad                                    | Chemical Bath Deposition of PbS thin film for window layer of thin film solar cells                           | International | 28-30 December 2015  |
| 8 | National Conference on New Trends and Developments in                            | New Arts, Commerce and science Collegw,   | CuS Thin film Deposited by Chemical Bath  | National      | 8-9 January 2016     |

|    |   |  |   |          |                     |
|----|---|--|---|----------|---------------------|
|    | Physics   | Parner   | deposition for Photosensor Applications   |          |                     |
| 9  | State level Conference on Nanobasics and its' Applications  | R.B. Narayanrao Borawake College, shrirampur, Dist-Ahmednagar          | Structure, Magnetic characterization of Cobalt-zinc ferrite film prepared by spray pyrolysis technique        | National | 18-19 January 2016  |
| 10 | National Conference on Role of IQAC: Academic and Administrative Audit for Improvement in Institutional Quality | K.J. Somayya College, Kopargaon, Dist-Ahmednagar                       | Required Improvements in IQAC   | National | 21-22, January 2016 |
| 11 | National Conference on Biodiversity and Environment   | Arts, commerce and science College, Sonai Tal- Newasa, Dist-Ahmednagar | Fabrication of Thin film CdS/CdTe Solar Cells   | National | 23-January 2016.    |
| 12 | National Conference on Recent Development in Nanomaterials and their Applications                               | G.T. Patil Arts, commerce and Science College, Nandurbar               | Deposition of ZnSe Thin film for Solar cell Applications  | National | 5-6 February 2016   |
| 13 | State level Conference on Recent Trends in Material science   | Shri anand College, Pathardi Dist- Ahmednagar                          | Deposition of CdSe thin film for photovoltaic applications  | National | 15-16 February 2016 |
| 14 | National Conference on Nanomaterials Imperatives in the New Millennium  | Department of Physics Chandwad College, Dist- Nashik                   | Fabrication of titanium oxide thin films at low temperature from aqueous solution bt chemical bath deposition | National | 16-17 October 2016  |
| 15 | State level Conference on Advanced methods for material characterization  | Arts, Commerce and Science College, Ale                                | Optical and structural properties of CuSe thin films deposited by chemical bath                               | State    | 5-6 January 2018    |

|    |   |   |   |               |                    |
|----|---|---|---|---------------|--------------------|
|    |   |   | deposition technique  |               |                    |
| 16 | International Conference on Functional Materials        | KTHM College, Nashik  | Structural and optical properties of CuS thin films by Chemical Bath Deposition Technique | International | 12-13 January 2018 |
| 17 | National Conference on Renewable Energy and Environment | K.J. Somaiya College of Arts, Commerce and Science, Kopargaon | Role of electrification in the Rural development  | National      | 19-20 January 2018 |

#### SEMINARS / CONFERENCES / SYMPOSIA AND WORKSHOPS PARTICIPATION

| Sr. no | Title of the seminar/conference/Symposium  | Place where organized   | State/National/International | Date                 |
|--------|--|---|------------------------------|----------------------|
| 1      | State level Workshop on Nanotechnology and Its Applications in Polymaterials and Biomaterials      | New Arts, Commerce and Science College, Shevgaon, Dist-Ahmednagar                           | State                        | 12-13 January 2011   |
| 2      | State level Conference on Recent Trends in Biophysics and Medical Electronics                      | K.J. Somaiya College of Arts, Commerce and Science College, Kopargaon, Dist- ahmednagar     | State                        | 10-11 February 2012  |
| 3      | State level Seminar on Recent Trends in Thin film Deposition Techniques and Their Characterization | Ahmednagar College, ahmednagar  | state                        | 18-19 December 2012  |
| 4      | State Conference on Recent Trends in Nano Technology   | Loknete Vyankatrao Hiray, mahavidyalay Nashik   | State                        | 28-29 December 2012  |
| 5      | National seminar on Advanced Materials and it's Applications                                       | Arts and Science College, Dondaicha, Dist- Dhule  | National                     | 1-2 February 2013    |
| 6      | State level Seminar on Recent Trends in the Utilization of Solar Energy                            | Padmashri Vikhe Patil College of Arts, Science and Commerce, pravaranagar, Dist- ahmednagar | State                        | 20-21 September 2013 |



|   |  |   |               |                    |
|---|--|---|---------------|--------------------|
| 7 | National Conference on Sustainable Energy Development and Environment System       | Haribhai V. Desai College, Pune   | National      | 10-11 January 2014 |
| 8 | International Conference on Recent Trends and Challenges in Science and Technology | Padmashri Vikhe Patil College of Arts, Science and Commerce, pravaranagar, Dist- ahmednagar | International | 20-22 August 2014  |
| 9 | State Level Seminar on Renewable Energy Resources- Opportunities in India          | Shri Dnyaneshwar Mahavidyalay, Newasa   | State         | 21st January 2017  |

### Speeches Delivered

| Sr. No. | TOPIC                                  | TYPE OF PROG.   | ORGANISED BY   | DATE                 |
|---------|--|---|--|----------------------|
| 1       | Problems in Waves and oscillations     | Quality Improvement Programm by SPPU                                      | Jijamata College of Science and arts College, Dnyaneshwarnagar, Bhende Tal- Newasa, dist- ahmednagar | 4/3/2011             |
| 2       | Doppler effect                         | Quality Improvement Programm by SPPU                                      | Arts, commerce and Science College, Rahuri   | 16/03/2012           |
| 3       | Thin Films by Chemical Bath Deposition | State level conference on Nanotechnology and advanced functional material | Organized by C.T. Bora College, Shirur, Tal- Shirur, Dist- Pune                                      | 12, 13 December 2014 |
| 4       | Renewable Energy                       | Guest Lecture   | To T.Y.B.Sc. Physics students of Radhabai Kale Mahila Mahavidyalay Ahmednagar                        | 13/09/2015           |
| 5       | Recent Trends in Physics               | Guest Lecture   | To S.Y.B.Sc. Physics students of Radhabai Kale Mahila Mahavidyalay Ahmednagar                        | 10/01/2016           |
| 6       | B.Sc. Physics practical.               | Guest Lecture   | S.Y./T.Y. Physics of Mulikadevi Mahavidyalay Nighoj  | 25/02/2016           |
| 7       | Waves and Oscillations                 | Guest Lecture   | S.Y.B.Sc. Physics students of Arts, Science and Commerce College, Rahuri                             | 07/03/2016           |
| 8       | Optics                                 | Guest Lecture   | S.Y.B.Sc. Physics students of Janata Arts, and Science College, Rui-Chhattisi, Tal.Dist- Ahmednagar  | 08/03/2016           |
| 9       | Characterization Techniques            | State level conference on   | Jijamata College of Science and Arts   | 20/01/2017           |

|  |  |  |  |  |
|--|--|--|--|--|
|  |  | Recent Developments in material characterization and its impact on material research | At- Dnyaneshwarnagar, Po-Bhende, Tal- Newasa, Dist- Ahmednagar |  |
|--|--|--|--|--|

### Chaired Sessions in the conference

| Sr. No. | Name of conference  | Organized By   | Date  |
|---------|---|--|---|
| 1       | National Conference on Material Advances for Better Future    | Jijamata College of Science and Arts, Dnyaneshwarnagar, Bhende Tal- Newasa, Dist- Ahmednagar | 16 <sup>th</sup> and 17 <sup>th</sup> January 2015  |
| 2       | National Conference on New Trends and Developments In Physics | New Arts, Commerce and Science College, Parner, Tal- Parner, Dist- Ahmednagar                | 8 <sup>th</sup> and 9 <sup>th</sup> January 2016    |
| 3       | State level conference on Recent Trends in Material Science   | Shri Anand College, Pathardi, Tal- Pathardi, Dist- ahmednagar                                | 15 <sup>th</sup> and 16 <sup>th</sup> February 2016 |

### Seminars and Workshops Organized:-

| Title of the seminar/ conference/Symposium                        | Sponsoring Agency | Amount sanctioned | State/ National/ International | Date                |
|---|-------------------|-------------------|--------------------------------|---------------------|
| National Conference on Nanomaterials: Applications and Properties | UGC, New Delhi    | 103750            | National                       | 22,23 February 2013 |

### Research paper Reviewed

| Sr. No. | Date       | Name of Journal                                    | Impact Factor of Journal |
|---------|------------|--|--------------------------|
| 1       | 25/03/2015 | Materials Chemistry and Physics (Elsevier Journal) | 2.259                    |

**GUIDANCE FOR RESEARCH PROJECTS/COMPETITIONS (UG/PG)  
AWARDS AND ACHIEVEMENTS**

State level- Avishkar projects

**Subject Expert for Selection of Assistant Professor**

| Sr. No | Name of College   | Date       |
|--------|---|------------|
| 1      | Sangamner Nagarpalika Arts, D.J. Malpani Commerce & B.N. Sarda Science College, sangamner, Dist- Ahmednagar | 28/08/2012 |
| 2      | Abhinav Education Society, Akole, Dist- Ahmednagar  | 29/12/2013 |
| 3      | Janata Shikshan Prasarak mandal, Dahigaon, Dist- Ahmednagar   | 17/02/2014 |
| 4      | Jijamata Science and Arts College, Bhende, Dist- Ahmednagar   | 22/08/2016 |
| 5      | Pragati Shikshan Sanstha, Rajapur, Dist- Ahmednagar   | 11/09/2016 |

**Local Inquiry Committee Visits**

| Sr. No. | Name of College  | LIC Visit  | Date       |
|---------|--|--|------------|
| 1       | Karmveer Abasaheb Alias N.M. sonawane Arts, Commerce and Science College, Satana, dist- Nashik | Affiliation Continuation                             | 23/10/2012 |
| 2       | Mulikadevi Mahavidyalay Nighoj, dist- ahmednagar   | Physics Laboratory Inspection for Examination center | 18/02/2016 |
| 3       | Janata Kala Mahavidyalay, Ruichhattisi, Dist- ahmednagar                                       | Physics Laboratory Inspection for Examination center | 03/03/2016 |

**Examiner in District/Taluka Science Exhibition**

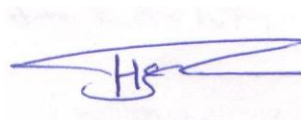
| Sr. No. | Name of College/School                               | Level    | Date                     |
|---------|--|----------|--------------------------|
| 1       | Sundarbai Hiralal Gandhi Kanya Vidyalay Newasa       | Taluka   | 12/12/2017 to 14/12/2017 |
| 2       | Residential Highschool and Juniour College, Shevgaon | District | 30/01/2018 to 31/01/2018 |

## OTHER ACCOMPLISHMENTS

- (i) Co-curricular activities
- Coordinator YCMOU, Nashik BA/BCom Study Center.
  - Chairman NAAC Criterion No. iv
  - Chairman Audio Visual Aids in College.
- (ii) Participation in social outreach programme
- **Member** – Organizing Committee of State Level Farmer Sat-sang Mela, Organized by Yashwant Samajik Pratishthan, Sonai, during 29<sup>th</sup> December 2006 to 1<sup>st</sup> January 2007.
  - Active participation in ‘Eye Donation Campaign organized by Yashwant Samajik Pratishthan, Sonai, on 12<sup>th</sup> May 2010.
  - *Participated in one day Camp at Morya Chinchore, Tree plantation was carried out at the place. Shri Popatrao Pawar (Sarpanch, Ideal Village Hivre Bazar ) guided on the occasion.*

### Posts held in the College :-

- 1) Head, Department of physics from 1992 to till
- 2) Co-Ordinator- Computer, MSCIT Course – from 1994 to 2010
- 3) Co-Ordinator-YCMOU BA/B.Com study center from 2004 to till.
- 4) Chief of Committee- Career and Counseling Center from 2010 to 2012
- 5) Chief of Committee - Vocational training program.
- 6) Member – Local Managing Committee, Arts, Commerce & Science College, Sonai, from 2005 to 2010.
- 7) Chairman – NAAC Criterion no. 4
- 8) Member College Development Committee – From 2003 to 2007.
- 9) Chairman – Students Council for 2002 – 2003.



Dr.Harishchandra Kadubal Sadekar

Head