CURRICULUM VITAE

Dr. Suvarta Dattatray Kharade

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Objective:

To work at responsible position in an organization where I can utilize all my skills to contribute toward the excellence and growth both as professionally and as an individual.

Educational Qualifications:

Sr. No.	Exam	Board/ University	Year of passing	Subjects	Percentage	Class Obtained
1	Ph. D.	Shivaji University, Kolhapur	Date of registration 01st July 2010	Inorganic Chemistry	Date of Award 12th May 2014	
2	M. Sc.	Shivaji University, Kolhapur	2009	Inorganic Chemistry	71.79	1st Class with Distinction
3	B. Sc.	Shivaji University, Kolhapur	2007	Chemistry	74.60	1st Class with Distinction
4	H. S. C.	Pune Board	2004	PCMB	61.50	1st Class
5	S. S. C.	Pune Board	2002	Compulsory Subjects	64.80	1st Class

Title of Ph. D. Research work:

"Novel Synthetic Route For MonodispersedNanocrystalline VI^{B}-V^{A}-I^{B}-VI^{A} Group Mixed Metal Chalcogenide Thin Films."

Supervisor: Prof. (Dr.) P. N. Bhosale, Shivaji University, Kolhapur

Teaching Experience:

Sr. No.	Post	Institute	Period
1.	Lecturer (CHB)	K. H. College, Gargoti, Kolhapur	**10 Months** (17th July 2009 to 24th April 2010)
2.	Lecturer (contributory)	Department of Applied Chemistry, Shivaji University, Kolhapur	**3 years** (1st July 2011 to 30th April 2014)
3.	Assistant Professor (contract basis)	Department of Applied Chemistry, Shivaji University, Kolhapur	**4 years** (28th Jul 2014 to 15th May 2015, 20th July 2015 to 14th May 2016, 30th June 2016 to 20th May 2017, 16th August 2017 to 25th May 2018 and 21st July 2018 to 16th May 2019)

Resaerch Experience:

Research Assistant, **3 years** under the Department of Science and Technology **(DST-PURSE) programme, New Delhi.**

Project:

M.Sc.II Project:

"Synthesis, Growth Mechanism and Characterization of Zinc Oxide Thin Films by Chemical Deposition Technique."

Technical skills:

- Perkin Elmer IR spectrophotometer
- Hitachi UV-Vis-NIR spectrophotometer
- MS-CIT

Personal skills :

- Good Communication skill and leadership qualities
- Good Analytical and Logical Approach

- Good Teamwork and Time Management
- Good in Decision Making and Human Relation
- Willingness to Learn.

Personal Profile:

Name	: Dr. Kharade Suvarta Dattatray.
Date of Birth	: 15th March 1987.
Marital Status	: Single
Languages known	: English, Hindi, Marathi.
Nationality	: Indian.
Hobbies	: Reading, to collect scientific data, Playing.

References:

1. **Prof. (Dr.) P. N. Bhosale**
   UGC-BSR Faculty Fellow
   Department of Chemistry,
   Shivaji University, Kolhapur-04.
   Email: p_n_bhosale@rediffmail.com
   Contact No. 9420007500 (M), 0231-2609338 (O)

2. **Prof. (Dr.) G. B. Kolekar**
   Co-ordinator,
   Department of Applied Chemistry,
   Shivaji University, Kolhapur-04.
   Email: gbk_chem@unishivaji.ac.in
   gbkolekar@gmail.com

3. **Prof. (Dr.) G. S. Gokavi**
   Head,
   Department of Chemistry,
   Shivaji University, Kolhapur-04.
   Email: gsgokavi@hotmail.com
   gsgokavi@rediffmail.com

I hereby declare that the above written particulars are true to the best of my knowledge.

(Dr. Kharade Suvarta Dattatray)

List of papers published in National and International Journals

Sr. No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	**S. D. Kharade**, N. B. Pawar, S. S. Mali, C. K. Hong, P. N. Bhosale	Effect of molybdenum content on the optostructural, morphological and photoelectrochemical properties of Bi_2Se_3Thin films	AIP Conference Proceedings	1989	020018	2018
2.	**S. D. Kharade**, N. B. Pawar, K. V. Khot, P. B. Patil, S. S. Mali, C. K. Hong, P. S. Patil and P. N. Bhosale	Enhanced photoelectrochemical performance of novel p-type $MoBiCuSe_4$ thin films deposited by a simple surfactant-mediated solution route	RSC Advances	6	24985	2016
3.	**S. D. Kharade**, N. B. Pawar, S. S. Mali, C. K. Hong, P. S. Patil, M. G. Kang, J. H. Kim and P. N. Bhosale	Effect of Copper Content on Optostructural, Morphological and Photoelectrochemical Properties of $MoBi_{2-x}Cu_xSe_4$ Thin Films	Journal of Materials Science	48	7300	2013
4.	**S. D. Kharade**, N. B. Pawar, V. B. Ghanwat, S. S. Mali, W. R. Bae, P. S. Patil, C. K. Hong, J. H. Kim and P. N. Bhosale	Room Temperature Deposition of Nanostructured Bi_2Se_3 Thin Films for Photoelectrochemical Application: Effect of Chelating Agents	New Journal of Chemistry	37	2821	2013

5.	N. D. Desai, K. V. Khot, V. B. Ghanwat, **S. D. Kharade**, P. N. Bhosale	Surfactant mediated synthesis of bismuth selenide thin films for photoelectrochemical solar cell applications	Journal of colloid and interface science	514	250-261	2018
6.	S. S. Patil, C. S. Bagade, M. P. Joshi, **S. D. Kharade**, K. V. Khot, S. S. Mali, C. K. Hong, P. N. Bhosale	Facile hydrothermal assisted synthesis of time dependent Cu_2S thin films for efficient photoelectrochemical application	Journal of Materials Science: Materials in Electronics	29	19322-19335	2018
7.	S. S. Patil, N. D. Desai, **S. D. Kharade**, M. P. Joshi, K. V. Khot, R. M. Mane, P. N. Bhosale	Single step fabrication of CuS thin film via hydrothermal route for solar cell application	AIP Conference Proceedings	1989	020029	2018
8.	M. P. Joshi, K. V. Khot, V. B. Ghanwat, **S. D. Kharade**, C. S. Bagade, N. D. Desai, S. S. Patil, P. N. Bhosale	Synthesis of tin sulphide thin film by simple arrested precipitation technique for solar cell application	AIP Conference Proceedings	1989	020015	2018
9.	N. B. Pawar, **S. D. Kharade**, K. V. Khot, P. N. Bhosale	Growth mechanism & characterization of $MoBiInS_5$ thin film synthesized by arrested precipitation technique	AIP Conference Proceedings	1989	030012	2018
10.	N. B. Pawar, S. S. Mali, **S. D. Kharade**, V. V. Kondalkar. V. B. Ghanwat, K. V. Khot, P.S.	Microwave assisted novel $MoBi_2S_5$ nanoflowers: Synthesis, characterization, photoelectroche	Solid State Sciences	61	89	2016

	Patil, P.N. Bhosale	mical performance				
11.	C. S. Bagade, V. B. Ghanwat, **S. D. Kharade,** K.V. Khot, R. R. Kharade, N. D. Desai, P. N. Bhosale	Rapid Formation of Ternary $CdZnSe_2$ Chalcogenide Thin Film by Microwave Assisted Chemical Bath Deposition	Micromol. Sympo.	60	362	2016
12.	K. V. Khot, S. S. Mali, V. B. Ghanwat, **S. D. Kharade**, R. M. Mane, C. K. Hong, P. N. Bhosale	Photocurrent enhancement in a $Cu_2Cd(SSe)_2$ photoanode synthesized via an arrested precipitation route	New Journal of Chemistry	40	3277	2016
13.	C. S. Bagade, S. S. Mali, V. B. Ghanwat, K. V. Khot, P. B. Patil, **S. D. Kharade**, R. M. Mane, N.D. Desai, C. K. Hong, P. S. Patil, and P. N. Bhosale.	A facile and low cost strategy to synthesize $Cd_{1x}Zn_xSe$ thin films for photoelectrochemical performance: effect of zinc content	RSC Advances	5	55658	2015
14.	N.B. Pawar, **S. D. Kharade**, S.S. Mali, R.M. Mane, C.K. Hong, P.S. Patil, P.N. Bhosale	Effect of indium (III) content on photoelectrochemical performance of $MoBi_{(2-x)}In_xS_5$ thin films	Solid State Sciences	35	10	2014
15.	N. B. Pawar, S. S. Mali, **S. D. Kharade**, M. G. Gang, P. S. Patil, J. H. Kim, C. K. Hong, P. N. Bhosale	Influence of vaccum annealing on the structural and photoelectrochemical properties of nanocrystalline $MoBi_2S_5$ thin films	Current Applied Physics	14	508	2014

16.	V. B. Ghanwat, S. S. Mali, **S. D. Kharade**, N. B. Pawar, S. V. Patil, R. M. Mane, P. S. Patil, C. K. Hong and P. N. Bhosale	Microwave assisted synthesis, characterization and thermoelectric properties of nanocrystalline copper antimony selenide thin films	RSC Advances	4	51632	2014
17.	S. V. Patil, R. M. Mane, N. B. Pawar,**S. D. Kharade**, S. S. Mali, P. S. Patil, G. L. Agawane, J. H. Kim, P. N. Bhosale	Opto-structural and electrical properties of chemically grown Ga doped $MoBi_2Se_5$ thin films	Journal of Mater Science: Material Electronics	24	4669	2013
18.	M. M. Salunkhe, R. R. Kharade, **S. D. Kharade**, S. S. Mali, P. S. Patil, P. N. Bhosale	Synthesis of fibrous reticulate nanocrystalline n-type $MoBi_2(Se_{1-x}Te_x)_5$ thin films: Thermocooling applications	Materials Research Bulletin	47	3860	2012

Books/Reports/Chapters/General articles etc.

Sr. No.	Title (Book)	Author's Name	Publisher	Year of Publication
1.	Nostructured, Multicomponent Metal Chalcogenide Thin Films: Chemical Synthesis of Nanostructured metal Chalcogenide Thin Films For Photoelectrochemical (PEC) Application	**S. D. Kharade** and P. N. Bhosale.	Scholors Press	2015

Sr. No.	Title (Book chapter)	Author's Name	Publisher	Year of Publication
2.	Annealing Effect on the Structural and Electrical Properties of n-type $MoBi_2(Se_{0.5}Te_{0.5})$ Thin Films.	M. M. Salunkhe, N. B. pawar, **S. D. Kharade**, S. M. patil, S. S. Mohite and P. N. Bhosale.	Nanimaterisals Synthesis and Characterization, Bloomsbury publishing India, Pvt. Ltd.	2012
3.	Synthesis and Characterization of $MoBi_2S_5$ Thin Film by Simple Colloidal Route	N. B. Pawar, S. M. Patil, M. M. Salunkhe, **S. D. Kharade**, R. M. Mane, V. B. Ghanwat and P. N. Bhosale	GRIET publications	2012

List of paper published in Proceedings of National/ International conference/ Workshop/Symposium

Sr. No.	Title of the paper presented	Authors	Title of Conference/Seminar Organized by with date
1	Proton Intercalated Tungsten Trioxide Thin Films For Electrochromic Displays.	Rohini R. Kharade, R. M. Mane, S. V. Patil, S. R. Mane, S. N. Gawale, **S. D. Kharade**and P. N. Bhosale.	9th International Symposium on "Advances in Electrochemical Science and Technology". December 2nd– 4th, 2010, Hotel Green Park Chennai, India.
2	Optoelectronic and Opto-structural Properties of Chemically Deposited Nanostructured Tungsten Oxide Semiconductor Thin Films.	RohiniKharade, Suhas S. Mohite, **Suvarta.D. Kharade**, Sawanta S. Mali and P. N. Bhosale*	UGC-SAP National Seminar on "Advanced Synthetic Methodologies and New Materials" 21stJan. 2011.
3	Room Temperature Synthesis of Nanoporous Copper Doped $MoBi_2Se_5$Mixed Metal Chalcogenide Thin Films by Arrested Precipitation Technique	**S. D. Kharade**, N. B. Pawar, R. R. Kharade, M. M. Salunkhe, R. M. Mane and P. N. Bhosale*	Proc. International conference on Physics of Materials and Materials Based Fabrication (ICPM-MDF) 18-21 Jan 2012, Department of Physics, Shivaji University.

4	An Aqueous Medium Based Synthesis &Characterization of Nanocrystalline $MoBi_2(Se_{0.5}Te_{0.5})_5$Thin Films	M. M. Salunkhe, R. R. Kharade, R. M. Mane, N. B. Pawar, **S. D. Kharade**and P. N. Bhosale*	International conference on Physics of Materials and Materials Based Fabrication (ICPM-MDF)18-21 Jan 2012, Department of Physics, Shivaji University
5	Growth Mechanism and Characterization of $MoBiCuSe_4$Thin Films Deposited by APT at Room Temperature	**S. D. Kharade**, N. B. Pawar, R. M. Mane, V. V. Kondalkar and P. N. Bhosale*	National Seminar on Recent Advances in Synthetic Chemistry and Nanomaterials (RASCN) 21-22 Jan 2012, Department of Chemistry, Shivaji University.
6	Synthesis and Characterization of $MoBi_2S_5$Thin Film by Simple Colloidal Route	N. B. Pawar, S. M. Patil, M. M. Salunkhe, **S. D. Kharade**, R. M. Mane, V. B. Ghanwat and P. N. Bhosale	Proc. International Conference on Materials Processing and Characterization (ICPMC) GokarajuRangaraju Institute of Engineering and Technology 8-10th March 2012, Bachupally, Hyderabad.
7	Annealing Effect on the Structural and Electrical Properties of n-type $MoBi_2(Se_{0.5}Te_{0.5})$ Thin Films.	M. M. Salunkhe, N. B. pawar, **S. D. Kharade**, S. M. Patil, S. S. Mohite and P. N. Bhosale.	Proc. International Symposium on Macro and Supramolecular Architectures and Materials (MAM-12), organized by Center for Nano Science and Technology, K. S. Rangasamy College of Technology, Tiruchengode (Tk.), Namakkal (Dt.), Tamil Nadu, India, held on 21stto 25thNov. 2012.
8	Annealing Effect on the Structural and Electrical Properties of n-type $MoBi_2(Se_{0.5}Te_{0.5})$ Thin Films.	M. M. Salunkhe, N. B. pawar, **S. D. Kharade**, S. M. patil, S. S. Mohite and P. N. Bhosale.	International Symposium on Macro and Supramolecular Architectures and Materials (MAM-12), organized by Center for Nano Science and Technology, K. S. Rangasamy College of Technology, Tiruchengode (Tk.), Namakkal (Dt.), Tamil Nadu, India, held on 21stto 25thNov. 2012.
9	Simple Chemical Method for Porous Network of $MoBiCuSe_4$Nanoflakes and its Photoresponse Property.	**S. D. Kharade**, M. M. Salunkhe, R. R. Kharade, V. B. Ghanwat, S. S. Mohite, and P. N. Bhosale.	DAE-BRNS 4thInterdisciplinary Symposium on Materials Chemistry (ISMC-2012), held at Bhabha Atomic Research Center, Mumbai, during December 11-15, 2012.

10	Room Temperature Growth of Bi_2Se_3Nanospheres and Nanopetels by Arrested Precipitation Technique.	**S. D. Kharade,** N. B. Pawar, V. B. Ghanwat, V. V. Kondalkar, S. P. Patil, P. N. Bhosale.	National Conference on Recent Trends in Nanotechnology, organized by Vivekanand College, Kolhapur, India, held on 14thand 15thDec. 2012.
11	Synthesis and Characterization of $MoBiCuSe_4$ Nanoflakes-assembled Microflowers via a Simple Chemical Method.	**S. D. Kharade**, N. B. Pawar, R. M. Mane, S. S. Mohite, P. N. Bhosale.	National Conference on Chemistry of Chalcogens (NC3-2013) organized by Department of Applied Chemistry, at Defence Institute of Advanced Technology (DIAT) Pune on 14thand 15thJanuary 2013.
12	Facile Single Phase. Crystalline Cu_3Se_2thin films and effect of Indium doping: Chemosynthesis and Characterizations	V. B. Ghanwat, **S. D. Kharade**, S. B. Pawar, M. M Salunkhe, P. B. Patil, S. S. Mohite, S. M. Patil and P. N. Bhosale	National Conference on Current Research in Chemical Sciences-2013 (CRCS-2013) organized by Department of Chemistry, Shivaji University Kolhapur on 22nd-23rdJan. 2013.
13	Effect of Ga Doping on electrical properties of chemically deposited $MoBi_2Se_5$thin films	S. V. Patil, R. M. Mane, R. R. Kharade, M. M. Salunkhe, N. B. Pawar, **S. D. Kharade**and P. N. Bhosale	National Conference on Current Research in Chemical Sciences-2013 (CRCS-2013) organized by Department of Chemistry, Shivaji University Kolhapur on 22nd-23rdJan. 2013.
14	Facile Chemosynthesis of p-type $MoBiCuSe_4$Thin Film for Heterojunction Solar Cell	**S. D. Kharade**, N. B. Pawar, V. B. Ghanwat, S. P. Patil, S. S. Mohite, P. N. Bhosale*.	International Society Advancement of Electrochemical Science and Technology (iSAEST-10) Symposium, Hotel Green Park, Chennai held on 28th- 30thJan. 2013.
15	Synthesis and characterization of $MoBi_2S_5$thin films by vaccume deposition technique	N. B. Pawar, **S. D. Kharade**, V. V. Kondalkar, R. M. Mane, S. V. Patil and P. N. Bhosale	International Society Advancement of Electrochemical Science and Technology (iSAEST-10) Symposium, Hotel Green Park, Chennai held on 28th- 30thJan. 2013.
16	Size quantization effect of indium doped $MoBi_2Se_5$mixed metal chalcogenide thin films	R. M. Mane, V. V. Kondalkar, V. B. Ghanwat, **S. D. Kharade**, M. M.	International Society Advancement of Electrochemical Science and Technology (iSAEST-10)

	on photoelectrochemical performance	Salunkhe, S. R. Mane, N. B. Pawar, P. N. Bhosale	Symposium, Hotel Green Park, Chennai held on 28th- 30thJan. 2013.
17	Effect of Copper Content on Optostructural, Morphological and Photoelectrochemical Properties of $MoBi_{2-x}Cu_xSe_4$Thin Films	**S. D. Kharade**, V. B. Ghanwat, S. V. Patil, C. S. Bagade and P. N. Bhosale	National symposium on current trends in chemical nanosciences, Department of Chemistry, Shivaji University, Kolhapur, on 17thand 18thJan. 2014.
18	Synthesis of nanocrystalline Bi_2Se_3thin films by arrested precipitation technique	N. D. Desai, **S. D. Kharade**, C. S. Bagade, P. N. Bhosale	National Conference on 'Frontiers in Chemistry and Materials Science'at Department of Chemistry, Shivaji University, Kolhapur on 16th, 17thJan. 2015.
19	Green Approach to Synthesize Nanostructured Bi_2Se_3 Thin Films: Chelating Effect	**Suvarta D. Kharade**, Nita B. Pawar, Monika P. Joshi and Popatrao N. Bhosale	International Conference ON "GO GREEN" held at CHANDMAL TARACHAND BORA COLLEGE, SHIRUR, DIST- PUNE, PIN-412210.MAHARASHTRA on 12th and 13th Jan 2017
20	Reduced Grapheme Oxide Incorporated Hydrothermally Synthesized TiO_2 Thin Films for Photoelectrochemical Application	**Suvarta D. Kharade**, Neha D. Desai, Prajkta A. Kadam, Ashiya A. Sayyad, Vishakha V. Sardesai and Popatrao N. Bhosale	National Conference on Innovative Research in Chemical Sciences to be held on 1-2, February 2017 at Department of Chemistry, Shivaji University, Kolhapur.