CURRICULUM VITAE

Dr. Suvarta Dattatray Kharade

Permanent Address: Flat no. 201, Swapnanagari Apartment,

Rajendranagar, Kolhapur-416004

Birth Date : 15thMarch 1987

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8805182960



Educational Qualifications:

Sr. No.	Exam	Board/ University	Year of passing	Subjects	Percentage	Class Obtained
1	Ph. D.	Shivaji University, Kolhapur	Date of registration 01 st July 2010	Inorganic Chemistry		ord 12 th May 14
2	M. Sc.	Shivaji University, Kolhapur	2009	Inorganic Chemistry	71.79	1 st Class with Distinction
3	B. Sc.	Shivaji University, Kolhapur	2007	Chemistry	74.60	1 st Class with Distinction
4	H. S. C.	Pune Board	2004	РСМВ	61.50	1 st Class
5	S. S. C.	Pune Board	2002	Compulsory Subjects	64.80	1 st Class

Academic Experience:

Designation & Appointment Nature	Period (From-To)	Classes Taught	Name of Institute	Pay and Allowances
DST-PURSE fellowship Fellowship/You ng Scientist	9/Sep/2011 to 11/May/2014	Course Level-PG Course- M. Sc. Subject- INORGANIC CHEMISTRY	SHIVAJI UNIVERSITY, KOLHAPUR	Rs. 8000 P.M.
CHB-LECTURER CHB	17/July/2009 to 24/April/201 0	Course Level-UG Course- B. Sc. Subject- INORGANIC CHEMISTRY	K. H. COLLEGE, GARGOTI	Rs. 5000 P.M.
Assistant Prof. (Contract Basis)	1/Jul/2014 to 15/May/2015	Course Level-PG Course- M. Sc. Subject- INORGANIC CHEMISTRY	SHIVAJI UNIVERSITY, KOLHAPUR	Rs. 15000 P.M.
Assistant Prof. (Contract Basis)	20/Jul/2015 to 16/May/2016	Course Level-PG Course- M. Sc. Subject- INORGANIC CHEMISTRY	SHIVAJI UNIVERSITY, KOLHAPUR	Rs. 15000 P.M.
Assistant Prof. (Contract Basis)	30/Jun/2016 to 20/May/2017	Course Level-PG Course- M. Sc. Subject- INORGANIC CHEMISTRY	SHIVAJI UNIVERSITY, KOLHAPUR	Rs. 15000 P.M.
Assistant Prof. (Contract Basis)	16/Aug/2017 to 24/May/2018	Course Level-PG Course- M. Sc. Subject- INORGANIC CHEMISTRY	SHIVAJI UNIVERSITY, KOLHAPUR	Rs. 21600 P.M.
Assistant Prof. (Contract Basis)	21/Jul/2018 to 16/May/2019	Course Level-PG Course- M. Sc. Subject- INORGANIC CHEMISTRY	SHIVAJI UNIVERSITY, KOLHAPUR	Rs. 21600 P.M.
Assistant Prof. (Contract Basis)	9/Sep/2019 to 14/May/2020	Course Level-PG Course- M. Sc. Subject- INORGANIC CHEMISTRY	SHIVAJI UNIVERSITY, KOLHAPUR	Rs. 32000 P.M.
Assistant Prof. (Contract Basis)	9/Sep/2020 to 7/Dec/2020	Course Level-PG Course- M. Sc. Subject- INORGANIC CHEMISTRY	SHIVAJI UNIVERSITY, KOLHAPUR	Rs. 32000 P.M.
Assistant Prof. (Contract Basis)	14/Dec/2020 to 13/Mar/2021	Course Level-PG Course- M. Sc. Subject- INORGANIC CHEMISTRY	SHIVAJI UNIVERSITY, KOLHAPUR	Rs. 32000 P.M.

(Contract Basis)	14/Mar/2021 to 30/Jun/2021	Course Level-PG Course- M. Sc. Subject- INORGANIC CHEMISTRY	SHIVAJI UNIVERSITY, KOLHAPUR	Rs. 32000 P.M.
Assistant Prof.	4th Jan. 2023	Course Level-PG	VIVEKANAND	Rs. 15000
Full time CHB	Assistant Prof.	Course- M. Sc.	COLLEGE,	P.M.
	Till date	Subject- INORGANIC	KOLHAPUR	
		CHEMISTRY		

Research Experience:-

Research Assistant under DST-PURSE programme by Department of Science and Technology, New Delhi from 2011-14.

Ph. D. Thesis Title: "Novel Synthetic Route For MonodispersedNanocrystalline VIB-VA-IB-VIA Group Mixed Metal Chalcogenide Thin Films."

Guide Name: Prof. (Dr.) P. N. Bhosale

Materials Research Laboratory,

Department of Chemistry

University: Shivaji University, Kolhapur-416004, Maharashtra, India.

Year of Award: May 2014

Students Guided: PG- More than 10 students for research project work

<u>Publications -</u> i) International Journals:-21 ii) National Journals: 02

iii) Conferences:20 iv) Books: 01

Workshops Attended: 05 Workshops

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.

My plans at organization:

I will try to give encouraging teaching to my student. I also like to continue research and try to absorb maximum funding from various funding agency for research. If provided with an opportunity I shall try my level best in the rightful discharge of my duties.

References:

1. Prof. (Dr.) P. N. Bhosale UGC-BSR Faculty Fellow

Department of Chemistry, Shivaji University, Kolhapur-416004. Email: p_n_bhosale@rediffmail.com Contact No. 9420007500 (M), 0231-2609338 (O)

2. Prof. (Dr.) S. S. Chavan

Department of Chemistry, Shivaji University, Kolhapur-416004. Email: sanjaycha2@rediffmail.com Contact No.9881647064 (M)

3. Dr. Dattaprasad Marutrao Pore

Department of Chemistry, Shivaji University, Kolhapur – 416004. Email: <u>p_dattaprasad@gmail.com</u> Contact No.8087268810

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

(Dr. Kharade Suvarta Dattatray)

<u>List of papers published in National and International Journals</u>

Sr.	Author(s)	Title	Name of	Volume	Page	Year
No.			Journal			
1.	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
2.	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 Photoelectroche mical Properties of MoBi _{2-x} Cu _x Se ₄ Thin Films	Journal of Materials Science	48	7300	2013
3.	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 ₂ Se ₃ Thin Films for Photoelectroche mical Application: Effect of Chelating Agents	New Journal of Chemistr y	37	2821	2013
4.	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 ₂ Se ₅ thin films	Journal of Mater Science: Material Electronic s	24	4669	2013
5.	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 photoelectroche mical performance of MoBi _(2-x) In _x S ₅ thi n films	Solid State Sciences	35	10	2014

6.	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 photoelectroche mical properties of nanocrystalline MoBi ₂ S ₅ thin films	Current Applied Physics	14	508	2014
7.	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
8.	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 _x Se thin films for photoelectroche mical performance: effect of zinc content	RSC Advances	5	55658	2015
9.	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 photoelectroche mical performance of novel p-type MoBiCuSe4 thin films deposited by a simple surfactant- mediated solution route	RSC Advances	6	24985	2016
10.	N. B. Pawar, S. S. Mali, S. D. Kharade , V. V.	Microwave assisted novel MoBi ₂ S ₅ nanoflow	Solid State Sciences	61	89	2016

	Kondalkar. V. B. Ghanwat, K. V. Khot, P.S. Patil, P.N. Bhosale	ers: Synthesis, characterization, photoelectroche 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 ₂ Cd(SSe) ₂ photoanode synthesized via an arrested precipitation route	New Journal of Chemistr y	40	3277	2016
13.	V. S. Patil, N. D. Desai, S. D. Kharade , R. M. Mane and P. N. Bhosale	Room Temperature Synthesis of Nanocubic CuInSe2 Thin Films	Journal of Advanced Chemical Engineeri ng	7	1	2017
14.	S. D. Kharade, N. B. Pawar, S. S. Mali, C. K. Hong, P. N. Bhosale	Effect of molybdenum content on the optostructural, morphological and photoelectroche mical properties of Bi ₂ Se ₃ Thin films	AIP Conferenc e Proceedin gs	1989	02001 8	2018
15.	N. D. Desai, K. V. Khot, V. B. Ghanwat, S. D. Kharade , P. N. Bhosale	Surfactant mediated synthesis of bismuth selenide thin films for photoelectroche mical solar cell	Journal of colloid and interface science	514	250- 261	2018

		applications				
16.	S. S. Patil, C. S.	Facile	Journal of	29	19322	2018
	Bagade, M. P.	hydrothermal	Materials		-	
	Joshi, S. D.	assisted synthesis	Science:		19335	
	Kharade, K. V.	of time	Materials			
	Khot, S. S. Mali,	dependent Cu ₂ S	in			
	C. K. Hong, P. N.	thin films for	Electronic			
	Bhosale	efficient	S			
		photoelectroche				
		mical application				
17.	S. S. Patil, N. D.	Single step	AIP	1989	02002	2018
	Desai, S. D.	fabrication of CuS	Conferenc		9	
	Kharade, M. P.	thin film via	e			
	Joshi, K. V. Khot,	hydrothermal	Proceedin			
	R. M. Mane, P. N.	route for solar	gs			
	Bhosale	cell application				
18.	M. P. Joshi, K. V.	Synthesis of tin	AIP	1989	02001	2018
	Khot, V. B.	sulphide thin film	Conferenc		5	
	Ghanwat, S. D.	by simple	е			
	Kharade, C. S.	arrested	Proceedin			
	Bagade, N. D.	precipitation	gs			
	Desai, S. S. Patil,	technique for				
	P. N. Bhosale	solar cell				
		application				
19.	N. B. Pawar, S. D.	Growth	AIP	1989	03001	2018
	Kharade, K. V.	mechanism &	Conferenc		2	
	Khot, P. N.	characterization	e			
	Bhosale	of MoBiInS ₅ thin	Proceedin			
		film synthesized	gs			
		by arrested				
		precipitation				
	74 d	technique		0	44.00	0000
20.	Monika P Joshi,	Investigating the	Nanomat	9	14-20	2020
	Suvarta D	photovoltaic	erials and			
	Kharade,	performance of	Energy			
	Popatrao N	surfactant-				
	Bhosale	assisted				
		MoBi ₂ Se ₅ thin				
21	Currenta Whanada	films Piofabrication of	Magramal	202	10002	2020
21.	Suvarta Kharade,	Biofabrication of	Macromol	393	19002	2020
	Shubhangi Mana Cayada	Silver	ecular		15	
	Mane-Gavade,	Nanoparticles	Symposia			
	Sunil Mali,	Using Hibiscus				
	Suryakant	cannabinus Leaf				
	Shirote, Sandip	Extract and Their				

	Malgave, Gurunath Nikam	Antibacterial Activity			
					l

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 Photoelectrochemica l (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.	Nanomaterial s Synthesis and Characterizati on, Bloomsbury publishing India, Pvt. Ltd.	2012
3.	Synthesis and Characterization of MoBi ₂ S 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

<u>List of paper presented in National/ International conference/</u> <u>Workshop/Symposium</u>

Sr. No.	Title of the paper presented	Authors	Title of Conference/Seminar Organized by with date
1.	Room Temperature Synthesis of Nanoporous Copper Doped MoBi ₂ Se 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.
2.	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.
3.	Synthesis and Characterization of MoBi ₂ S 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) Gokaraju Rangaraju Institute of Engineering and Technology 8- 10 th March 2012, Bachupally, Hyderabad.
4.	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.	IUPAC Sponsored 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 21sto 25th Nov. 2012.
5.	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 4 th Interdisciplinary Symposium on Materials Chemistry (ISMC-2012), held at Bhabha Atomic Research Center, Mumbai, during December 11-15, 2012.

6.	Room Temperature Growth of Bi ₂ Se ₃ Nanospheres and Nanopetels by Arrested Precipitation Technique. Synthesis and	S. D. Kharade, N. B. Pawar, V. B. Ghanwat, V. V. Kondalkar, S. P. Patil, P. N. Bhosale. S. D. Kharade, N. B.	National Conference on Recent Trends in Nanotechnology, organized by Vivekanand College, Kolhapur, India, held on 14 th and 15 th Dec. 2012. National Conference on
7.	Characterization of MoBiCuSe ₄ Nanoflakes-assembled Microflowers via a Simple Chemical Method.	Pawar, R. M. Mane, S. S. Mohite, P. N. Bhosale.	Chemistry of Chalcogens (NC3-2013) organized by Department of Applied Chemistry, at Defence Institute of Advanced Technology (DIAT) Pune on 14th and 15th January 2013.
8.	Influence of Surfactants on Optostructural, Morphological and Photoelectrochemical properties of MoBiInSe ₅	N. B. Pawar, S. D. Kharade , R. M. Mane, P. B. Patil, P. N. Bhosale.	National Conference on Frontiers in Chemical and Biological Sciences, 23 rd -24 th Sept. 2013, PDVP Mahavidyalaya, Tasgaon, Sangali.
9.	Room Temperature Synthesis of Nanoporous Network of Copper Doped MoBi ₂ Se ₅ Mixed Metal Chalcogenide Thin Films	S D Kharade, N B Pawar, R R Kharade, M M Salunkhe, R M Mane, P N Bhosale	2 nd International Conference on "Physics of Materials Based Device Fabrication (ICPM- 2014)", organized by Department of Physics, Shivaji University, Kolhapur on Jan. 13-15 2014
10.	Effect of Copper Content on Optostructural, Morphological and Photoelectrochemical Properties of MoBi ₂₋ _x Cu _x Se 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 and Nanosciences, Department of Chemistry, Shivaji University, Kolhapur, on 17 th and 18 th Jan. 2014.
11.	Synthesis of nanocrystalline Bi ₂ Se ₃ thin 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 16 th , 17 th Jan. 2015.
12.	Green Approach to Synthesize Nanostructured Bi ₂ Se 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 12 th and 13 th Jan 2017

13.	Effect of molybdenum content on the optostructural, morphological and photoelectrochemical properties of Bi ₂ Se ₃ Thin films	S. D. Kharade, N. B. Pawar, S. S. Mali, C. K. Hong, P. N. Bhosale	3 rd International Conference on Emerging Technologies: Micro to Nano, 6 th and 7 th October 2017, Jointly organized by, Solapur University, Solapur, Jaipur, CSIR-CEERI, Pilani.
14.	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 held on 1-2, February 2017 at Department of Chemistry, Shivaji University, Kolhapur.
15.	Biofabrication of Silver Nanoparticles Using <i>Hibiscus</i> cannabinus Leaf Extract and Their Antibacterial Activity	Suvarta Kharade, Gurunath Nikam	One Day International Conference On Advanced Materials and Applications" (ICAMA-2023) (Online) held on 1st July 2023at Dnyansadhana Shikshan Prasarak Mandal, Nivade Sanchalit, M. H. Shinde Mahavidyalaya, Tisangi Tal. Gaganbavda, Dist. Kolhapur 416206.

<u>List of National / International conference / Workshop / Symposium</u> attended

- International Conference on Nanomaterials and Applications-2008, Jointly organised by Department of Chemistry and Department of Physics, Shivaji University, Kolhapur. December 9-11, 2008.
- National Symposium on Advances in Synthetic Methodologies and New Materials, organised by Department of Chemistry, Shivaji University, Kolhapur. 21st -22nd January 2011.
- 3. International Conference on Supramolecular Chemistry and Nanomaterials, organised by Department of chemistry in association with Centre for Nanosciences and Nonotechnology, Mumbai University, Mumbai. February 14-16, 2011.

- 4. Two-Day Workshop on "Research Writings, Ethics, Plagiarism and Publishability" Organised by Internal Quality Assurance Cell (IQAC), Shivaji University, Kolhapur on 26th and 27th July, 2012.
- 5. Workshop on Solutions from Synthesis to Characterization, organised by Shivaji University, Kolhapur on 26th 27th March 2018.