

CV

- Personal Details**

- Name** : **Dr. MISS ASHWINI BABURAO ROHOM**
 - Date of Birth** : 27/12/1986
 - Address for Correspondence** : Ganesh Rohom Farm house, In front of Shriram Milk Dairy, Babhleshwar Tal. Rahata, Dist. Ahmednagar, Maharashtra
 - Permanent Address** : C-4, Maitramanor APT, Savarkar Nagar, Gangapur road, Nashik-422013, Maharashtra
 - Telephone Number** : 9011069336/9881307335
- E-Mail ID** : ashwini.rohom325@gmail.com, ashwini.rohom@yahoo.co.in



- Educational Qualification**

Sr. No.	Degree	Board / University	Year of Passing	Subjects	Percentage of Marks	Class / Grade obtained
1.	Ph.D	SavitribaiPhule Pune University, Pune	March 2018	Physics	Awarded	Awarded
1.	M.Phil	SavitribaiPhule Pune University, Pune	June- 2012	Physics	84.00 %	'A' Grade
2.	M. Sc.	SavitribaiPhule Pune University, Pune	January -2010	Physics (Nanotechnology)	60.00%	First class- 'B' Grade
3.	B.Sc	SavitribaiPhule Pune University, Pune	May - 2007	Physics	81.16 %	Distinction
4.	HSC	SavitribaiPhule Pune University, Pune	June -2004	Science	71.33 %	First class

- Certificate / Diploma /Advanced Qualification (If any):**

Sr. No.	Degree	Board / University	Year of Passing	Subjects	Percentage of Marks	Class / Grade obtained
1.	MSCIT	MSCIT, Pune	2008	MSCIT	60.00%	First

- Date of Appointment** : 1st February 2018
- Designation** : Head, Department of Physics, Arts, Commerce, Science And Computer Science college, Ashwi Kd, Sangamner, Maharashtra, India

- Training Program completed: Orientation / Refresher / summer courses/Short term course:05**

Sr. No	Program	Date	Durati on	Organizing agency
1.	Online Faculty Induction Program 3 rd	25 th November 2020 to 31 st December 2020	37 Days	UGC, HRDC, Dr Harisingh Gour Vishvidyalaya, Sagar, MP

2.	Online teacher training program on Application of ICT tools for enhancement of E-learning & teacher pedagogy in schools	8 th July 2020- 14 th July 2020	07 Days	Integral learning initiative, Integral University, Lucknow
3.	Online FDP on MOOCs and MOODLE based learning management system	15 June-22 June 2020	08 Days	Indira Gandhi University, Meerapur
4.	Online FDP on Hybrid Classroom: ICT Tools for teaching and learning	29 th May-31 st May 2020	3 Days	Research Culture Society
5.	Online Refresher Course on "Physics of Semiconductors"	1 November 2018 to 28 February 2019	3 Months	IIT Kanpur, SWAYAM

- **Number of Seminar/Conferences/Workshops/Symposia participated/worked as resource person/chairman/coordinator etc.: 48**

Sr. No.	Name of the Conference	Date	Venue	Level
1.	National webinar on Functionalized Nanomaterials and their applications	9 th -10 th Feb 2021	Online	National
2.	International conference on Nanoscience and Nanotechnology	1 Feb-3 Feb 2021	Online	International
3.	National Webinar on Career Advancement Scheme (CAS) for promotion of Teachers & Filling of API forms	3 rd July 2020	Online	National
4.	IPR and Patents	2 nd July 2020	Online	National
5.	National Webinar on Advances in synthetic & Characterization of Materials	24 th - 29 th June 2020	Online	National
6.	National webinar on Nanotechnology in Yoga	26 th June 2020	Online	National
7.	Prevention of sexual Harassment at workplace	25 th June 2020	Online	National
8.	Leadership perspectives from History	24 th June 2020	Online	National
9.	Journey to Nanoscience and Nanotechnology	17 th June 2020	Online	National
10.	Role of Educational institutes in Biodiversity Conservation	15 th June 2020	Online	National
11.	Applications of Basic Physics for Design & Development of various types of sensors	10 th June 2020	Online	State
12.	Latest trends in Nanomaterials synthesis, advanced Microprocessors and Challenges	9 th -10 th June 2020	Online	National
13.	Nanomaterials and Detection techniques of COVID-19	7 th June 2020	Online	International

14.	Energy for Sustainable Environment Transforming the Future	6 th June 2020	Online	National
15.	Renewable energy & Energy management towards Mitigation of climate change	5 th June 2020	Online	National
16.	One day online workshop on Composing quality MCQ	11 th May 2020	Online	National
17.	Materials for energy harvesting and catalysis	1 st -3 rd May 2020	Online	International
18.	Workshop on Research methodology -2020	5 th -11 th April 2020	Online	International
19.	Workshop on Intellectual property rights	10 th -11 th April 2020	Online	International
20.	Workshop on Patent Filing: Procedure and Legal Aspects	18 th February 2020	Arts, Commerce and Science college, Satral	National
21.	National Seminar on Natural Resource management and Sustainable Development	23 rd -24 th January 2020	ACS and CS College, Ashvi Kd	National
22.	Syllabus Reframing Workshop- SYBSc	17 th January 2020	PVP College, Pravaranagar	University
23.	One day workshop on Choice Based Credit System	25 th July 2019	CT Bora College, Shirur, Pune	University
24.	International Conference in Physical, Chemical and Life Science (IPCLS-2018)	27 th -28 th December 2018	New Arts, Commerce and Science College, Parner, Maharashtra, India	International
25.	Raman Memorial Conference 2017	3 rd -4 th March 2017	Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra, India	National
26.	One day workshop on 'Vacuum Technology'	15 th July 2016	Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra, India	State level
27.	International Conference on Material Science and Technology (ICMST)	5 th - 8 th June 2016	St. Thomas College Palai, Kerala, India	International
28.	International Conference on Materials Science & Technology (ICMTech)	1 st - 4 th March 2016	University of Delhi, New Delhi, India	International
29.	Raman Memorial Conference 2016	12 th -13 th Feb 2016	Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra, India	National
30.	Applied Nanotechnology and Nanoscience International Conference (ANNIC)	5 th - 7 th Nov. 2015	Espace Saint Martin, 199 Bis Rue Saint-Martin 75003 Paris, France	International
31.	A workshop on Understanding Origin and Endnote Software	17 th October 2015	Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra, India	National
32.	International Photovoltaic Solar Energy conference (IPSEC-2015)	30 July to 1 August 2015	Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra,	International

			India	
33.	Raman Memorial Conference 2015	13th-14th Feb 2015	Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra, India	National
34.	Raman Memorial Conference 2014	7th -8th February 2014	Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra, India	National
35.	International Conference on Electrochemical science and Technology (ICONEST)	6th-8th August 2014	Indian Institute of Science, Bangalore, India	International
36.	International Conference on Science and Engineering of Materials	6-8th Jan 2014	Sharda University, Greater Noida, Uttar Pradesh, India	International
37.	International Conference on Advance Nanomaterials and Emerging Engineering Technology (ICANMEET)	24-26th July 2013	Sathyabama University, Chennai	International
38.	Raman Memorial Conference 2013	22nd -23rd February 2013	Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra, India	National
39.	National Conference on Functional Nanomaterials: synthesis, characterization and applications	31st - Jan 2nd February 2013	Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra, India	National
40.	Raman Memorial Conference 2012	2nd -3rd March 2012	Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra, India	National
41.	56th DAE Solid State Physics Symposium	19th- 23rd December 2011	SRM University, Tamilnadu, India,	International
42.	Seminar on Synthesis and Applications of Functional Materials	23rd September 2011	National Defence Academy, Khadakwasla Pune , Maharashtra, India	National
43.	National workshop on Scanning probe microscopy (SPM) Techniques and applications	11th-12th March 2011	Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra, India	National
44.	Raman Memorial Conference 2011	25th- 26th February 2011	Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra, India	National
45.	55th DAE Solid State Physics Symposium	26th- 30th December 2010	Manipal institute of technology, Manipal, Karnataka, India	International
46.	National seminar on Nanomaterials for Devices: Characterization and Applications	24th- 26th June 2010	Defence Institute of Advanced Technology, Pune, Maharashtra, India	National

47.	National seminar on Recent trends in Material Science	21st-22nd February 2010	New Arts Science, Commerce college, Parner, Ahmednagar, Maharashtra, India	National
48.	Workshop on Introduction to Astronomy	17th-18th January 2007	KTHM College, Nashik, Maharashtra, India	National

• **Details of Research paper(s) published: 31**

Sr. No.	Title of paper	Name of the author/s	Name of journal (Vol., page no.)	Level (Nat./Int. nat.)	Year of publication	Impact Factor
1.	Solar cell studies on $\text{CuIn}_{1-x}\text{Ga}_x\text{Se}_2$ NPs derived from chemical process	P U Londhe, A B Rohom, N B Chaure	Solar Energy, 206, 18-26	International	2020	4.674
2.	Effect of deposition time on growth of cadmium sulfide (CdS) thin film for photovoltaic application	A. B. Rohom, G. R. Bhand, P. U. Londhe, A. G. Raut, N. B. haure	Research Journey, 218, 47	International	2020	(SJIF) - 6.625
3.	The Wet Chemical Synthesis of Silver Nanostructures with Controllable Aspect Ratio	Ganesh R. Bhand, A. B. Rohom and N. B. Chaure	Research Journey, 218, 72	International	2020	(SJIF) - 6.625
4.	Hopping conductivity-mediated O-shaped memory behavior in gelatin-graphene oxide composite films	S Vallabhapurapu, Ashwini Rohom , N. B. Chaure, C Tu, S Du, V V Shrinivasu, Ananthakrishnan Srinivasan	Applied Physics A, 124(9)	International	2019	1.694
5.	Resistive switching Memory Effect and conduction in Nano-Silver Incorporated Type-A Gelatin Films	Sreedevi Vallabhapurapu, S Du, N B Chaure, Shrinivasu, Ashwini Rohom , C Tu, A Srinivasan	IEEE Conference Proceeding,	International	2019	-
6.	Selenization of electrochemically synthesized copper-indium layers from non-aqueous solution for solar cell application	P U. Londhe, Ashwini B. Rohom , N. B. Chaure	Journal of Alloys and Compounds 771, 246e253	International	2019	3.779
7.	Development of graded band-gap copper indium diselenide thin films using electrochemical route	Ashwini B. Rohom , P. U. Londhe, Taehoon Eom Jeong In Han, N. B. Chaure	Applied Surface Science,	International	2019	3.387

8.	Study of photoelectrochemical conductivity mechanism and electrochemical impedance spectroscopy of bulk CuInTe ₂ ∅ electrolyte interface	M. G. Lakhe , Ashwini B.Rohom , P. U. Londhe , G. R. Bhand , N. B. Chaure	Surfaces and Interfaces, Accepted, In Press withDOI 10.1016/j.surfin.2018.05.012	International	2018	1.393
9.	Bistable resistive memory behavior in gelatin-CdTe quantum dot composite film	Sreedevi Vallabhapurapu, Ashwini Rohom , N. B. Chaure, Shengzhi Du, and Ananthakrishnan Srinivasan	AIP Conf. Proc. 1953, 0821 (2018)	International	2018	-
10.	Development of superstrate CuInGaSe ₂ thin film solar cells with low-cost electrochemical route from non-aqueous bath	P U. Londhe, Ashwini B. Rohom , N. B. Chaure	ACS Sustainable Chemistry and Engineering, 2018 , 6 (4), pp 4987-4995	International	2018	5.780
11.	Rapid Thermal Processed CuInSe ₂ Layers Prepared by Electrochemical Route for Photovoltaic Applications	Ashwini B. Rohom , P. U. Londhe and N. B. Chaure	Journal of Electrochemical Society, 165, H3051-H3060 (2018)	International	2018	3.259
12.	The effect of citric acid and selenization onto electrochemically deposited Copper-Indium thin films for solar cell applications	Ashwini B. Rohom , P. U. Londhe and N. B. Chaure	Thin Solid Films, 642, 303-310 (2017)	International	2017	1.867
13.	Studies on chemically synthesized PbS thin films for IR detector application	Ashwini B Rohom , P. U Londhe, G. R Bhand, P. Jadhav and N. B Chaure,	Journal of Materials Science Materials in Electronics, 28, 17107-17113 (2017)	International	2017	2.019
14.	Effect of oxidizing agent on the properties of polyaniline thin films	Sagar Gore, Ashwini B Rohom , P U Londhe, N B Chaure	AIP Conference Proceedings, DOI: 0.1063/1.4980478	International	2017	-
15.	Effect of complexing agent on the chemically deposited ZnS thin film	P U Londhe, Ashwini B Rohom , G R Bhand, S Jadhav, M G Lakhe, N B Chaure	Journal of Materials Science Materials in Electronics, 28, 5209-5214, 2017	International	2017	2.019

16.	Synthesis and characterization of controlled size CdSe quantum dots by colloidal method	G R Bhand, M G Lakhe, Ashwini B Rohom , P U Londhe, S K Kulkurni, N B Chaure,	Journal of Nanoscience and Nanotechnology, 17, 2017, 1-7	International	2017	1.483
17.	Optical, structural, and morphological properties of PANI/CdSe(TPs) nanocomposite thin films	G R Bhand, M G Lakhe, Ashwini B Rohom , P U Londhe, S K Kulkurni, N B Chaure,	Journal of Materials Science Materials in Electronics, 28, 12255-12563 (2017)	International	2017	2.019
18.	Agitation dependent properties of copper indium diselenide thin films prepared by electrochemical route	Ashwini B. Rohom , P. U. Londhe, N. B. Chaure	Thin Solid Films 615 (2016) 366-373	International	2016	1.867
19.	Study of electrochemically grown copper indium diselenide (CIS) thin films for photovoltaic applications	Ashwini B. Rohom , P. U. Londhe, G R. Bhand, M G. Lakhe, N. B. Chaure	Journal of Materials Science Materials in Electronics, 27, 12374-12384 (2016)	International	2016	2.019
20.	Enhancement of Optical Absorption by Incorporation of Plasmonic Nanoparticles in PANI Films	Ashwini B. Rohom , Priynka U. Londhe, N. B. Chaure	Nanoscience and Nanotechnology 6, 83-87(2016)	International	2016	-
21.	Improvement in the CIGS Solar Cell Parameters by Using Plasmonic (Au) Nanoparticle	P U. Londhe, Ashwini B. Rohom , N. B. Chaure	Nanoscience and Nanotechnology 2016, 6(1A): 43-46.	International	2016	-
22.	Electrochemically synthesized CuInSe ₂ thin films from non-aqueous electrolyte for solar cell applications	PU Londhe, Ashwini B Rohom , MG Lakhe, GR Bhand and NB Chaure	Semicond. Sci. Technol. 31 (2016) 125009 (11pp).	International	2016	2.305
23.	Electrochemical synthesis and characterization Cu ₂ ZnSnS ₄ thin films	M G. Lakhe, G R. Bhand, P U. Londhe, Ashwini B. Rohom and N B. Chaure	Materials Science and Engineering (2016) 5 100261	International	2016	-
24.	The effect of pH and selenization on the properties of CuInSe ₂ films prepared by electrodeposition technique for device applications,	Ashwini B. Rohom & P. U. Londhe & N. B. Chaure	Journal of Solid State Electrochemistry, 19, 201-210 (2015)	International	2015	2.316
25.	CuInSe ₂ thin film solar cells prepared by low-cost electrodeposition techniques from a non-aqueous bath	P U. Londhe, Ashwini B. Rohom and Nandu B. Chaure	RSC Adv., 2015, 5, 89635	International	2015	3.108

26	Electropolymerization of polyaniline thinfilms	Ashwini B. Rohom , Priyanka U. Londhe, S. K. Mahapatra, S. K. Kulkarni and N. B. Chaure	High Performance Polymers, 26, 641 (2014)	International	2014	1.090
27	Selenization of electrodeposited copper-indium alloy thin films for solar cell applications	P. U. Londhe, Ashwini B. Rohom , Nandu B. Chaure	Journal of Materials Science Materials in Electronics, 2014, 25:4643-	International	2014	2.019
28	Controlled Growth of ZnO QDs by Wet Chemical Technique	Bhand G R, Londhe P U, Rohom, Ashwini B , Chaure N B	Advanced Science Letters, 20, 2014, 1112-1115.	International	2014	1.253
29	One Step Colloidal Route for the Preparation of Lead Sulfide Nanoparticles Using Thiol	Ashwini B. Rohom , A R Lande, S I Patil, N B Chaure	IEEE Conference Proceeding, 978-1-4799-1379-4/13/\$31.00 ©2013IEEE.	International	2013	-
30	Effect of ultrasonication on properties of sequential layer deposited nanocrystalline silver thin films	Ashwini B. Rohom and S. D. Sartale	AIP Conf. Proc. 1447, 695 (2012); doi: 10.1063/1.4710193.	International	2012	-
31	Deposition and Characterization of Nanocrystalline silver thin films by using SILAR method	Ashwini B. Rohom and S. D. Sartale	AIP Conf. Proc. 1349, 397 (2011); doi: 10.1063/1.3605902.	International	2011	-

- Award / Honors / Recognition / Fellowship**

Sr. No.	Discipline of Award	Award by Bodies	Month and Year
Award(s)			
1.	South Korea Internship award	NRF, South Korea DST, New Delhi	April 2017
2.	Senior Research Fellowship (SRF)	CSIR, New Delhi	October 2015
3.	Best Oral Presentation (International conference on advanced nanomaterials and emerging engineering technologies)	SRM University, Chennai	July 2013
4.	Best Poster Presentation (Raman Memorial conference)	S P Pune University	February 2016
Fellowship(s)			
1.	Indo-Korea Research Intern Fellowship (Dongguk University, South Korea)	NRF, South Korea DST, New Delhi	April 2017 to October 2017
2.	Senior Research Fellowship (SRF) (SPPU)	CSIR, New Delhi	2015-2017
3.	Senior Research Fellowship (SRF) (SPPU)	DRDO, New Delhi	2014-2015
4.	Junior Research Fellowship (JRF) (SPPU)	DRDO, New Delhi	2012-2014
5.	Project Assistant (SPPU)	ISRO, Pune	2010-2012

- Grants Received for foreign country visit: 8**

Sr. No.	Purpose of visit	Country Visited	Date	Funding agency
1.	Research Internship program	South Korea	1/4/2017-31/10/2017	DST, New Delhi
2.	Paper Presentation in International Conference	France	5/9/2015-7/9/2015	SPPU, Pune

- Visits:**

Countries	Purpose	Cities	Purpose
South Korea	As a Research Intern for 6 Months	-	-
Paris, France	Oral Presentation, International Conference (ANNIC-2015)		

- Contribution to academic and other fields:**

Sr. No.	Discipline of work	Place	Year
1.	Research Experience (India)	Department of Physics, S P Pune University	8 Years
2.	Research Experience (South Korea)	Department of Biological and Chemical Engineering, Dongguk University, Seoul, South Korea	6 Months
3.	Co-guidance to MSc student for project (No. of Students-09)	Department of Physics, S P Pune University	From 2010 to 2017
4.	Co-guidance to MSc student for project (No. of Students-04)	PVP College of Arts, Commerce and science College, Loni	2017-18

- Worked in various committees (academic/curricular/co-curricular) at institute level : 16**

Sr. No.	Nature of work	Name of the committee	
1.	Chairman	NAAC Criteria VII	
2.	Chairman	Annual Gathering	
3.	Chairman	Research	
4.	Chairman	Avishkar (ARC)	
5.	Chairman	Best Practices of college	
6.	Member	Pravara Samajik Probhodhan Mahotstava	
7.	Member	Code of Conduct/Core Values	
8.	Member	NAAC Steering	
9.	Member	Admission	
10.	Member	Science association	
11.	Member	Health	
12.	Member	Women Empowerment	
13.	Member	Mahila ani Maji Vidyarthini melava	
14.	Member	Steering and organizing	In National seminar on Natural resource management in sustainable development 23-24 January 2020
15.	Member	Souvenir Editor	
16.	Member	Anchoring	

- **Extracurricular activities:**

- Member- Science on Wheel Program in nearby Schools and our Colleges
- Conducted **Awareness program on solar energy** to nearby villages and Grampanchayat.

- **Achievements :**

1. Submitted Research Proposal To SPPU under ASPIRE Start-up research grant as a PI = Rs.2,45,000 (2019-20)
2. Submitted Research Proposal To DST-SERB under Start-up research grant as a PI = Rs.17,84,100 (2019-20)
3. Member-Research Committee at Sanstha (**PRES**) Level (2019-20 to till date)
4. Received **197** Citations till date to research papers.
5. Worked as **Co-treasurer** in Raman Memorial Conference (RMC) 2015 held in Department of Physics, SPPU, Pune.
6. Secured**1st Prize** in Sanskrit Drama held under Damodar Malpani Trust, Sangamner.
7. Secured**1st Prize** in State level Handball Game, New Rachana School, Nashik.

Dr. Miss Ashwini Baburao Rohom

Head,
Department of Physics,
ACS & Comp Sci College,
Ashvi Kd.