

CURRICULUM VITAE

1. Personal Information

Name: - Dr. Bajarang Balaso Patil
Date of Birth: - 05/09/1992
Cast: - Hindu Maratha
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2. Academic details: -

Sr. No.	Examination Passed	Name of the Board/university	Mont & Year of Passing	Subjects offered	% of Marks Obtained	Class/ Division /Grade
1	Ph.D.	Shivaji University Kolhapur	24 Feb-2023	Studies on gas sensing behavior of rare earth (La, Sm and Y) substituted Ni-Cu-Zn nanoferrites	-	Awarded
2	NET (LS-JRF)	Council of Scientific & Industrial Research-University Grant Commission	Nov-2020	Physical Science	-	Qualified
3	SET	Savitribai Phule Pune university, Pune	Dec-2020	Physical Science	-	Qualified
4	P.G. (M.Sc.)	Shivaji University Kolhapur	June-2015	Physics (Solid State Physics)	67%	First class
5	Degree (B.Sc.)	Shivaji University Kolhapur	June-2013	Physics	84%	First class with distinction
6	10+2 (HSC)	Kolhapur Board	Feb-2010	Languages, Physics, Chemistry, Mathematics	68%	First class
7	10 th (SSC)	Kolhapur Board	March-2008	Languages, Social science, Science, Mathematics	68%	First class

3. Teaching and research Experience: -

	Institution (College/ University)	Name Of University	Subject Taught	Position held	Nature of Appointment (FT/PT/CHB)	Period of App- ointment with Dates	
						From	To
1	Balwant College, Vita	Shivaji university Kolhapur	Physics	Assistant Professor	Full Time Grantable CHB	01/07/2015	07/11/2015
2	Balwant College, Vita	Shivaji university Kolhapur	Physics	Assistant Professor	Full Time Grantable CHB	01/12/2015	30/04/2016
3	Balwant College, Vita	Shivaji university kolhapur	Physics	Assistant Professor	Full Time Grantable CHB	16/06/2016	27/10/2016
4	Balwant College, Vita	Shivaji university Kolhapur	Physics	Assistant Professor	Full Time Grantable CHB	19/11/2016	16/02/2017
5	Smt. KRP kanya mahavidyaaya islampur	Shivaji university Kolhapur	Physics	Research Scholar	Full Time Researcher	01/07/2017	30/06/2019
6	Balwant College, Vita	Shivaji university Kolhapur	Physics	Assistant Professor	Full Time Grantable CHB	18/07/2019	12/10/2019
7	Smt. KRP kanya mahavidyaaya islampur	Shivaji university Kolhapur	Physics	Research Scholar	Full Time Researcher	12/10/2019	30/06/2022
8	Balwant College, Vita	Shivaji university Kolhapur	Physics	Assistant Professor	Full Time Grantable CHB	05/08/2022	09/05/2023
8	Balwant College, Vita	Shivaji university Kolhapur	Physics	Assistant Professor	Full Time Grantable CHB	03/07/2023	Working

4. Research specializations: -

Thick films, Electric Properties, Magnetic Properties, Dielectric properties, Synthesis of Nanoferrites, Gas sensors properties

5. List of publications in journal

Sr. No.	Title of paper	Journal	ISSN	IF (h-index)
1	Effect of La ³⁺ substitution on structural and magnetic parameters of Ni–Cu–Zn nano-ferrites	Journal of Nanostructure in Chemistry, 9(2) 119-128, May 2019	20089244, 21938865	10.1
2	Impact of La ³⁺ substitution on Electrical, Magnetic, Dielectric and Optical properties of Ni _{0.7} Cu _{0.1} Zn _{0.2} La _x Fe _{2-x} O ₄ (0<x<0.035) system	Journal of Rare Earths 41 (2023) 740e746	10020721	4.662 (54)
3	Effect of Ag Doping on DC Electrical Resistivity, Thermo Electrical Power, VSM Analysis and	Indian Journal of Physics 96, no. 11 (2022) 3161-3176.	09731458	1.947 (31)

	Antimicrobial Activity of Copper-Zinc Nano-ferrites			
4	A review: Influence of divalent, trivalent, rare earth and additive ions on Ni-Cu-Zn nanoferrites	Journal of the Indian Chemical Society 100 (2023) 100811	0019-4522	0.243 (33)
5	Dielectric behaviour and phase transition of La ₂ Mo ₂ O ₉ thin films synthesized by spray pyrolysis technique	Journal of Material Science and Material in Electronics (2023) 34:387	0957-4522	2.779 (80)
6	Crystallographic, Electric and Optical Analysis of Cs ¹⁺ Doped H ₃ PW ₁₂ O ₄₀ Nanocrystalline Thin Films Deposited by Microwave Assisted Chemical Bath Deposition Method	ChemistrySelect	2365-6549	2.1 (51)
7	Redox additive effects on the electrochemical performance of hydrothermally grown, binder-free CuO nanosheets in aqueous electrolytes	Inorganic Chemistry Communications,	1387-7003	3.428 (78)
8	X-ray diffraction analysis of Ni-Cu-Zn nanoferrite synthesized by Wet Chemical route	International Journal of Research and Analytical Reviews, 12-15, Jan 2019	2349-5138	-
9	Synthesis of Cu-Zn nano-ferrite by oxalate co-precipitation method	International Journal of Research and Analytical Reviews, 1-7, Jan 2019	2349-5138	-
10	Ni-Cu-Zn nanoferrite prepared at lower sintering temperature	AIP Conference. Proceeding 2265 (1) 030081, Nov 2020	978-0-7354-2025-0	0.40 (75)
11	Studies on structural properties of Ytterbium (Yb ³⁺) substituted Mg-Cu-Zn nanoferrites	Macromolecular Symposia, 400 (1) 2100131, Dec 2021	1521-3900	0.85. (76)

6. Book edited

Sr. No.	Book Name	Editors	ISBN	Publication
1	Recent Advances in Fabrication Technology of Nanomaterial's (RAFTN-2022)	Prin. Dr. R S More Prof. (Dr.) C R Bobade Mr. B B Patil Dr. V S Raut Mrs. P S Shinde Mr. D K Dhongade	978-81-956739-3-3	Shree publications (In Process)

7. Books chapters

Sr. No.	Chapter no.	Title of Chapter	Book Name	ISBN	Publication
1	11	DC electrical resistivity of ni-zn ferrite and their composites with barium titanate	Advances in Functional and Sustainable Materials (2022)	978-93-91768-77-5	Bhumi publications
2	13	Microwave assisted synthesis of silver doped Ni-Zn nano-ferrites	Advances in Functional and Sustainable Materials	978-93-91768-77-5	Bhumi publications
3	15	Synthesis and characterization of NiZnCuFe ₂ O ₄ nanomaterial's by co-precipitation method	Advances in Functional and Sustainable Materials	978-93-91768-77-5	Bhumi publications
4	19	Structural analysis of ternary nano-composite Fe ₂ S ₄ nano-wires deposited by SILAR method	Advances in Functional and Sustainable Materials	978-93-91768-77-5	Bhumi publications
5	20	Microwave assisted synthesis and characterization of Mg-Co-Nd-Cd nanoparticles	Advances in Functional and Sustainable Materials	978-93-91768-77-5	Bhumi publications
6	21	Synthesis of nixzn1-xco2o4 nano- material for supercapacitor	Advances in Functional and Sustainable Materials	978-93-91768-77-5	Bhumi publications,
7	22	Synthesis of nano-wires by SILAR method for supercapacitor application	Advances in Functional and Sustainable Materials	978-93-91768-77-5	Bhumi publications
8	2	La ³⁺ substituted Ni-Cu-Zn Nanoferrites: Room-temperature high-performance ammonia gas sensor	Recent Advances in Fabrication Technology of Nanomaterials	978-81-956739-3-3	Prarup publications
9	9	Electro-chromic Materials: Potential Candidate for Supercapacitor Applications	Recent Advances in Fabrication Technology of Nanomaterials	978-81-956739-3-3	Prarup publications

10	12	Chemically Synthesized SnO ₂ -ZnO Nanocomposite Thin Films for Gas Sensing Application	Recent Advances in Fabrication Technology of Nanomaterials	978-81-956739-3-3	Prarup publications
11	14	Ni-Co nanoferrites: A Potential Candidate for Wave Absorption Application	Recent Advances in Fabrication Technology of Nanomaterials	978-81-956739-3-3	Prarup publications
12	16	Anti-microbial properties of copper Doped zinc oxide Nanoparticles	Recent Advances in Fabrication Technology of Nanomaterials	978-81-956739-3-3	Prarup publications
13	20	Overview of Ni-MoO ₄ Thin Films: Structure, Classification and Application	Recent Advances in Fabrication Technology of Nanomaterials	978-81-956739-3-3	Prarup publications

8. Research Guidance: -

The project work supervised to Master of Science students:

Work completed – 04 (Smt. KRP Kanya Mahavidyalaya, Islampur)

Currently working – 11 (Balwant Collage, Vita)

9. Papers presented in research conventions

Sr. No.	Title of Paper	Conference details	Present	Status	Duration
1	DC electrical resistivity behaviour of La ³⁺ substituted Ni-Cu-Zn nanoferrites	University Level Avishkar Research Convention 2019-20. in PPG level pure science discipline.	Poster	University Level	15 th December 2019
2	DC electrical resistivity behaviour of La ³⁺ substituted Ni-Cu-Zn nanoferrites	14 th Maharashtra State Inter-University Avishkar Research Convention 2019-20; Organized by the University of Mumbai	Poster + Oral	State Level	28 th - 31 st January 2019
3	Fabrication and Designing of Cost-effective DC electrical resistivity/conductivity measurement device.	West Zone Inter-University Student Research Convention: Anveshan 2019-20; in Basic Science category; Organized by University of Mumbai under the aegis of Association of Indian Universities, New Delhi.	Poster + Oral	Zonal Level	19 th - 20 th February 2020

4	Nanoferrites: highly sensitive room temperature NH ₃ and Cl ₂ gas sensor	University Level Avishkar Research Convention 2022-23 in PPG level pure science discipline.	Poster	University Level	08 th December 2022
2	Nanoferrites: highly sensitive room temperature NH ₃ and Cl ₂ gas sensor	15 th Maharashtra State Inter-University Avishkar Research Convention 2022-23; Organized by the Savitribai Phule Pune University Pune	Poster + Oral	State Level	11 th - 14 st January 2023

10. Papers presented in National/International conferences

Sr. No.	Title of Paper	Conference details	Status	Duration
1	X-ray Diffraction analysis of Ni-Cu-Zn nanoferrite synthesized by wet chemical route	Advances in Pure and Applied Sciences, (ICPAS-2019); Organized by Balwant College vita	International	05 th - 06 th January 2019
2	Structural Properties of Ni _{0.7} Cu _{0.1} Zn _{0.2} Fe ₂ O ₄ Nanoferrite Synthesized by Oxalate Co-Precipitation Method	4 th International Conference on Physics of Material and Material Based Device Fabrication (ICPM-MDF-2019), held at Department of Physics, Shivaji University Kolhapur.	International	10 th - 11 th January 2019
3	Ni-Cu-Zn Nanoferrite Prepared at Lower Sintering Temperature	64 th DAE Solid State Physics Symposium (DAE-SSPS-2019) in Indian Institute of Technology Jodhpur (IITJ), Rajasthan Organized by BARC Mumbai	International	18 th - 22 th December 2019
4	Structural, Magnetic and Dielectric properties of Yttrium substituted Ni-Cu-Zn nanoferrites	Advances in Functional and Sustainable Materials & Applications (AFSM-2022); organized by Department of Physics S. G. M. college, Karad in collaboration with Smt. K. R. P. Kanya mahavidyalaya, Islampur.	National	08 th April 2022

5	Synthesis of La ³⁺ substituted Ni-Cu-Zn nanoferrites by oxalate co-precipitation method	Recent Advances in physics and natural sciences; Organized by the Department of Physics and Botany associated with the Indian Association of Physics Teachers; held at KBP College Islampur	National	23 rd January 2018
6	Y ³⁺ substituted Ni-Cu-Zn nanoferrites: highly efficient room temperature NH ₃ and Cl ₂ sensor	Innovation in Smart and Techno Material Organized by Department of Physics SGM collage, Karad	International	16 th - 17 th January 2023

11. Participation in online conferences/webinars/workshops

Sr. No.	Conference details	Organizer	Status	Duration
1	Two days International E-Conference on Cutting Edge Smart Materials & Nanotechnology. (ICCESMN-2020)	Department of Physics collaboration with Internal Quality Assurance Cell Sadguru Gadage Maharaj College (SGM) Karad	International	20 th - 21 st August 2020
2	National Webinar on Advanced Materials for Multifunctional Applications.	Department of Physics and Internal Quality Assurance Cell Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya (PDVP) Tasgaon	National	04 th September 2020
3	International Web-Conference on Nanostructured Materials for Energy Generation, Storage and Smart Applications	Shardabai Pawar Mahila Arts, Commerce and Science College, Sharadanagar, Baramati	International	09 th - 10 th October 2020
4	Webinar on Plagiarism in research.	Department of Civil Engineering Anjuman Institute of Technology and Management	National	10 th November 2020
5	Virtual International conference on Porous Materials for Energy and Environment (PMEE-2021). Commerce, Khandola, Goa	Organized by Cluster Research Centre PG & UG Department of Chemistry, Govt. College of Arts, Science and	International	12 th - 13 th March 2021

6	Two days workshop on Patent drafting for beginners & art of writing research papers.	The IIC and R&D cell of Nanasahab Mahdik College of Engineering (NMCOE), Peth	National	02 nd - 03 rd April 2021
7	DAE-BRNS 8 th Interdisciplinary Symposium on Material Chemistry (ISMC-2020).	Organized by Bhabha Atomic Research Centre, Chemistry Division, Mumbai & Society of Materials Chemistry, Mumbai	International	17 th -19 th June 2021
8	National e-conference on Advanced Materials and Applications (AMA-2021).	Department of Applied Sciences and Humanities, Maharshi Parshuram College of Engineering, Valneshwar	National	23 rd October 2021
9	One day workshop on Experimental Physics under lead college activity.	Department of Physics Balwant college vita	Intercollege	12 th January 2022
10	1 st international web conference on "Advances in Material Science and Applied Biology (ICAMSAB-22).	Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)	International	27 th -28 th January 2022.

12. Recognitions and Awards

Sr. No.	Award title	Year
1	Certificate of reviewing , Awarded since June 2019, recognition of the review contributed to the Journal of Physics and Chemistry of Solids	June 2019
2	Awarded as Chief Minister Special Junior Research Fellowship (CMSJRF-2019) , Provided by Chhatrapati Shahu Maharaj Research, Training and Human development Institute (SARTHI)	11 th Sept. 2019
3	Awarded as Junior Research Fellowship (JRF-2020) conducted by joint (CSIR-UGC) Council of Scientific and Industrial Research-University Grant Commission	04 th Feb. 2021
4	Awarded as Chief Minister Special Senior Research Fellowship (CMSSRF-2019) , Provided by Chhatrapati Shahu Maharaj Research, Training and Human development Institute (SARTHI)	22 nd Dec 2021
5	2nd prize in University Level Avishkar Research Convention 2019-20 in PPG level, Pure science discipline. Organized by Shivaji university, Kolhapur	15 th Dec. 2019
6	Represent university in 14th Maharashtra State Inter-University Research convention AVISHKAR- 2019-20 , Organized by	28 th -31 st Jan. 2020

University of Mumbai, Mumbai		
7	Represent university in West Zone Inter-University Student Research Convention: ANVESHAN 2019-20 , in the Basic Science category Organized by University of Mumbai under the Aegis of Association of Indian universities New Delhi, Mumbai	19 th -20 th Feb. 2020
8	2nd prize in University Level Avishkar Research Convention 2022-23 in PPG level, Pure science discipline. Organized by Shivaji university, Kolhapur	08 th Dec. 2022
9	Represent university in 15th Maharashtra State Inter-University Research convention AVISHKAR- 2022-23 , Organized by Savitribai Phule Pune University Pune	12 th -15 st Jan. 2023
10	Working as an Organizing Secretary for one day national conference on Recent advances in Fabrication Technology of Nanomaterials- 2022	28 th December 2022

13. Invited talks:

Sr. No.	Venue	Talk on	Date
1	Guest lecture on Adarsh Institute of Technology and Research Center (AITRC), Vita	Magnetism and Magnetic phenomenon	31 st October 2017 & 1 st November 2017
2	One day national workshop on Guidance on SET-NET Examination Organized by Raje Ramrao Mahavidyalaya, Jath	General Physics	20 th April. 2022
3	One day national workshop on Guidance on SET-NET Examination Organized by Smt. Kusumtai Rajarambapu Patil Kanya Mahavidyalaya, Islampur	Guidance on NET-SET examination	09 th May. 2022
4	Three days' workshop on Preparation of physics NET/SET exam Organized by Sadguru Gadage Maharaj College, Karad	Strategy and problem solving techniques in thermodynamics for NET-SET examination	12 th May 2022
5	Workshop on NET, SET preparation and Carrier opportunities in Physics Organized by Balwant college, Vita	Preparation strategy of NET-SET examination	14 th May 2022
6	One day workshop for faculty on ICT TOOLS: teaching and Research in Science Organized by MBSK Kanya Mahavidyalaya, Kadegaon	ICT TOOLS: teaching and Research in Science	18 th March 2023

I hereby declared that, the facts given above are genuine in the best of my knowledge and belief.

Yours Faithfully,

A handwritten signature in black ink, appearing to read 'B. Patil', written over a horizontal line.

(Dr. Bajarang B. Patil)