



CURRICULUM VITAE

PERSONAL DETAILS

1. **Name** : Dr. Vinayak Vasant Ganbavle
2. **Permanent Address** : Near Hanuman Temple, Peth Vadgaon, Tal: Hatkanangale,
Dist: Kolhapur 416112
3. **Designation** : Assistant Professor
4. **Qualification** : M.Sc., Ph.D
5. **Mobile Number** : 7972319648
6. **e-mail** : vinayakganbavale@gmail.com
7. **Vidwan Id** : 342524
8. **Date of Birth** : 18-04-1984
9. **Gender** : Male

EDUCATIONAL QUALIFICATION:

Degree /Qualification	School/ College/Institute	Board/ University	Passing Year	Class & Percentage	Specialization
Ph.D.	Department of Physics, Shivaji University, Kolhapur	Shivaji University, Kolhapur	2015	---	Materials Science
M.Sc.	Department of Physics, Shivaji University, Kolhapur	Shivaji University, Kolhapur	2008	61.75	Theoretical Physics
B.Sc.	Shri Viaysinha Yadav College, Peth Vadgaon	Shivaji University, Kolhapur	2005	65.16%	Physics
	Shri Viaysinha Yadav College, Peth Vadgaon	Shivaji University, Kolhapur	2004	60.28%	Chemistry
HSC	Parashar College, Pargaon	Kolhapur Divisional Board	2001	59.17%	PCM
SSC	Vadgaon Highschool Vadgaon	Kolhapur Divisional Board	1999	67.20%	---

10. Ph.D. thesis title : Studies on synthesis and characterization of sprayed tungsten oxide thin films for gas sensor application

Guide's Name : Dr. K. Y. Rajpure

11. Research Specializations : Materials Science, Gas Sensor, Silica Aerogel, Supercapacitor, UV photodetector, Photoelectrocatalysis, Hydrophobic coatings

12. Awards /Achievements:

University Grants Commission Basic Scientific Research (UGC-BSR) Junior Research Fellowship (2013-2015)

University Grants Commission Basic Scientific Research (UGC-BSR) Senior Research Fellowship (2015-till date)

- Fellowship was awarded by University Grants Commission, New Delhi for carrying out doctoral research at Shivaji University, Kolhapur under the supervision of Prof. K. Y. Rajpure. The experimental results obtained during the work were reported by writing papers in scientific journals and by presenting those at scientific conferences.

13. Date of recognition as PG teacher : 26th August 2018

14. Date of recognition as Research Guide : 4th June 2022

15. Number of students completed M.Phil. /Ph.D. degree under your supervision: Nil

16. Number of Research Students currently working under your supervision : 01

17. Teaching Experience:

UG level: 11 years 08 months

PG level: nil

Sr. No.	Designation / Post held	Name of the College / Institute	Nature of appointment	Period		Experience in Years
				From	to	
1.	Lecturer	Shri Vijaysinha Yadav College, Peth Vadgaon	Temporary (C.H.B.)	18-08-2008	28-02-2013	4 years 9 months
2.	Assistant Professor and Head of	Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji	Fulltime (Regular)	15-06-2016	Till date	6 years 9 months

	Department					
Total						11 Years 8 months

18. Experience in this College: 06 years 09 months

19. Research Articles Published : 29

Total citations: 1197 (Google scholar)

h-index: 20 (Google scholar)

Link to the Google scholar account: <https://scholar.google.com/citations?user=07iqBk4AAAAJ>

Sr. No.	Title of paper	Name of the author/s	Dept. of the teacher	Name of journal	Year of publication	ISSN	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number		
							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list
1	Synergistic effects of Pd decoration and substrates on the NO ₂ sensing performance of sprayed WO ₃ thin films	Vinayak Ganbavle, Shahin Shaikh, Santosh Mohite, Sumayya Inamdar, Amit Bagade, Atish Patil, Keshav Rajpure	Physics	Chemical Physics Letters	2023	Print ISSN: 0009-2614 Online ISSN: 1873-4448	https://www.sciencedirect.com/journal/chemical-physics-letters	https://www.sciencedirect.com/science/article/abs/pii/S0009261423000325	yes
2	Rapid Synthesis of Ambient Pressure Dried Tetraethoxysilane Based Silica Aerogels	V. V. Ganbavle, A. S. Kalekar, N. S. Harale, S. S. Patil, S. L. Dhere	Physics	Journal of Sol-Gel Science and Technology	2020	Electronic ISSN 1573-4846 Print ISSN 0928-0707	https://www.springer.com/journal/10971	Rapid synthesis of ambient pressure dried tetraethoxysilane based silica aerogels SpringerLink	yes
3	Fast Response and Highly Selective Nitrogen Dioxide Gas Sensor Based on Zinc Stannate Thin Films	MA Patil, VV Ganbavle, KY Rajpure, HP Deshmukh,	Physics	Materials Science for Energy Technologi	2020	2589-2991	https://www.sciencedirect.com/journal/materials-science-for-	https://www.sciencedirect.com/science/article/pii/S2589299119301405	yes

		SH Mujawar		es			energy-technologies		
4	Sol-gel derived aluminium doped zinc oxide thin films: A view of aluminium doping effect on physicochemical and NO ₂ sensing properties	A.R. Nimbalkar, N.B. Patil, V.V. Ganbavle, S.V. Mohite, K.V. Madhale, M.G. Patil	Physics	Journal of Alloys and Compounds	2019	Print ISSN: 0925-8388 Online ISSN: 1873-4669	https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds	https://www.sciencedirect.com/science/article/abs/pii/S0925838818338167	yes
5	ZnO nanorod based highly selective visible blind ultraviolet photodetector and highly sensitive NO ₂ gas sensor	S. K. Shaikh, V. V. Ganbavle, S. V. Mohite, U. M. Patil, K. Y. Rajpure	Physics	Superlattices and Microstructures	2018	Online ISSN: 2773-0123 Print ISSN: 2773-0131	https://www.sciencedirect.com/journal/superlattices-and-microstructures	https://www.sciencedirect.com/science/article/abs/pii/S0749603617329671	yes
6	Chemical synthesis of pinecone like ZnO films for UV photodetector applications	S. K. Shaikh, V. V. Ganbavle, S. V. Mohite, K. Y. Rajpure	Physics	Thin Solid Films	2017	Online ISSN: 1879-2731 Print ISSN: 0040-6090	https://www.sciencedirect.com/journal/thin-solid-films	https://www.sciencedirect.com/science/article/abs/pii/S0040609017307241	yes
7	Photoelectrochemical and photocatalytic activities of bilayered TiO ₂ /Ga:WO ₃ photoelectrode by spray pyrolysis technique	S. V. Mohite, V. V. Ganbavle, K. Y. Rajpure	Physics	Materials Research Bulletin	2017	Print ISSN: 0025-5408 Online ISSN: 1873-4227	https://www.sciencedirect.com/journal/materials-research-bulletin	https://www.sciencedirect.com/science/article/abs/pii/S0025540817308735	yes
8	Photoelectrochemical performance and photoelectrocatalytic degradation of organic compounds using Ga:WO ₃ thin films	S. V. Mohite, V. V. Ganbavle, K. Y. Rajpure	Physics	Journal of Photochemistry and Photobiology A: Chemistry	2017	Online ISSN: 1873-2666 Print ISSN: 1010-6030	https://www.sciencedirect.com/journal/journal-of-photochemistry-and-photobiology-a-chemistry	https://www.sciencedirect.com/science/article/abs/pii/S1010603016304695	yes

9	Assessment of structural, morphological, magnetic and gas sensing properties of CoFe ₂ O ₄ thin films	A. A. Bagade, V. V. Ganbavle, S. V. Mohite, T. D. Dongale, B. B. Sinha, K. Y. Rajpure	Physics	Journal of Colloid and Interface Science	2017	Print ISSN: 0021-9797 Online ISSN: 1095-7103	https://www.sciencedirect.com/journal/journal-of-colloid-and-interface-science	https://www.sciencedirect.com/science/article/abs/pii/S0021979717302382	yes
10	Facile chemical bath deposition method for interconnected nanofibrous polythiophene thin films and their use for highly efficient room temperature NO ₂ sensor application	D. B. Kamble, A.K. Sharma, J. B. Yadav, V. B. Patil, R. S. Devan, A. A. Jatrakar, M.A. Yewale, V.V. Ganbavle, S. D. Pawar	Physics	Sensors and Actuators B: Chemical	2017	Print ISSN: 0925-4005 Online ISSN: 1873-3077	https://www.sciencedirect.com/journal/sensors-and-actuators-b-chemical	https://www.sciencedirect.com/science/article/abs/pii/S0925400517300217	yes
11	Photoelectrocatalytic activity of immobilized Yb doped WO ₃ photocatalyst for degradation of methyl orange dye	S. V. Mohite, V. V. Ganbavle, K. Y. Rajpure	Physics	Journal of Energy Chemistry	2017	Online ISSN: 2096-885X Print ISSN: 2095-4956	https://www.sciencedirect.com/journal/journal-of-energy-chemistry	https://www.sciencedirect.com/science/article/abs/pii/S2095495617300232	yes
12	Synthesis and characterization of zinc stannate thin films prepared by spray pyrolysis technique	M. A. Patil, S. H. Mujawar, V. V. Ganbavle, K. Y. Rajpure, H. P. Deshmukh	Physics	Journal of Materials Science: Materials in Electronics	2016	Electronic ISSN 1573-482X Print ISSN 0957-4522	https://www.springer.com/journal/10854	https://link.springer.com/article/10.1007/s10854-016-4801-1	yes
13	Photoelectrocatalytic degradation of benzoic acid using immobilized tungsten	S. V. Mohite, V. V. Ganbavle, V.	Physics	Materials Chemistry and Physics	2016	Online ISSN: 1879-3312	https://www.sciencedirect.com/journal/materials-chemistry-and-physics	https://www.sciencedirect.com/science/article/abs/pii/S0254058416306629	yes

	trioxide photocatalyst	V. Patil, K. Y. Rajpure				Print ISSN: 0254-0584	chemistry-and-physics		
14	Multifunctional zinc oxide thin films for high performance UV photodetector and nitrogen dioxide gas sensor	S. K. Shaikh, V. V. Ganbavle, S. I. Inamdar, K. Y. Rajpure	Physics	RSC Advances	2016	ISSN : 2046-2069	https://pubs.rsc.org/en/journals/journalissues/ra#!issueid=ra013014&type=current&issnonline=2046-2069	https://pubs.rsc.org/en/content/articlelanding/2016/ra/c6ra01750a	yes
15	Chemical bath deposited ZnO thin film based UV photoconductive detector	Shahin K. Shaikh, Sumayya I. Inamdar, Vinayak V. Ganbavle, Kesu Y. Rajpure	Physics	Journal of Alloys and Compounds	2016	Print ISSN: 0925-8388 Online ISSN: 1873-4669	https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds	https://www.sciencedirect.com/science/article/abs/pii/S0925838815320181	yes
16	https://www.sciencedirect.com/science/article/abs/pii/S1385894715014631	V.V. Ganbavle, S.I. Inamdar, G.L. Agawane, J.H. Kim, K.Y. Rajpure	Physics	Chemical Engineering Journal	2016	Print ISSN: 1385-8947 Online ISSN: 1873-3212	https://www.sciencedirect.com/journal/chemical-engineering-journal	https://www.sciencedirect.com/science/article/abs/pii/S1385894715014631	yes
17	Solar photoelectrocatalytic activities of rhodamine-B using sprayed WO ₃ photoelectrode	S.V. Mohite, V.V. Ganbavle, K.Y. Rajpure	Physics	Journal of Alloys and Compounds	2016	Print ISSN: 0925-8388 Online ISSN: 1873-4669	https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds	https://www.sciencedirect.com/science/article/abs/pii/S0925838815311300	yes
18	Effect of solution concentration on physicochemical and gas sensing properties of sprayed WO ₃ thin films	V.V. Ganbavle, S.V. Mohite, J.H. Kim, K.Y. Rajpure	Physics	Current Applied Physics	2015	Online ISSN: 1878-1675 Print ISSN:	https://www.sciencedirect.com/journal/current-applied-physics	https://www.sciencedirect.com/science/article/abs/pii/S1567173914003563	yes

						1567-1739			
19	Effect of Substrate Temperature on the Properties of Sprayed WO ₃ Thin Films Using Peroxotungstic Acid and Ammonium Tungstate: A Comparative Study	V.V. Ganbavle, J.H. Kim, K.Y. Rajpure	Physics	Journal of Electronic Materials	2015	Print ISSN 0361-5235	https://www.springer.com/journal/11664	https://link.springer.com/article/10.1007/s11664-014-3618-z	yes
20	Effect of the buffer layer on the metal–semiconductor–metal UV photodetector based on Al doped and undoped ZnO thin films with different device structures	S.I. Inamdar, V.V. Ganbavle, S.A. Shaikh, K.Y. Rajpure	Physics	Physica Status Solidi (a)	2015	Online ISSN: 1862-6319	https://onlinelibrary.wiley.com/journal/18626319	https://onlinelibrary.wiley.com/doi/abs/10.1002/pssa.201431850	yes
21	Nitrogen dioxide sensing properties of sprayed tungsten oxide thin film sensor: Effect of film thickness	V.V. Ganbavle, S.V. Mohite, G.L. Agawane, J.H. Kim, K.Y. Rajpure	Physics	Journal of Colloid and Interface Science	2015	Print ISSN: 0021-9797 Online ISSN: 1095-7103	https://www.sciencedirect.com/journal/journal-of-colloid-and-interface-science	https://www.sciencedirect.com/science/article/abs/pii/S0021979715003513	yes
22	Physicochemical properties of sprayed V ₂ O ₅ thin films: Effect of substrate temperature	A.A. Mane, V.V. Ganbavle, M.A. Gaikwad, S.S. Nikam, K.Y. Rajpure,	Physics	Journal of Analytical and Applied Pyrolysis	2015	Print ISSN: 0165-2370 Online ISSN: 1873-250X	https://www.sciencedirect.com/journal/journal-of-analytical-and-applied-pyrolysis	https://www.sciencedirect.com/science/article/abs/pii/S0165237015300668	yes
23	Physicochemical Properties of Spray-Deposited CoFe ₂ O ₄ Thin Films	A.A. Bagade, V.V. Ganbavle, K.Y. Rajpure	Physics	Journal of Materials Engineering and Performa	2014	Print ISSN 1059-9495	https://www.springer.com/journal/11665	https://link.springer.com/article/10.1007/s11665-014-1032-6	yes

				nce					
24	Development of Zn ₂ SnO ₄ thin films deposited by spray pyrolysis method and their utility for NO ₂ gas sensors at moderate operating temperature	V.V. Ganbavle , M.A. Patil, H.P. Deshmukh, K.Y. Rajpure	Physics	Journal of Analytical and Applied Pyrolysis	2014	Print ISSN: 0165-2370 Online ISSN: 1873-250X	https://www.sciencedirect.com/journal/journal-of-analytical-and-applied-pyrolysis	https://www.sciencedirect.com/science/article/abs/pii/S0165237014000655	yes
25	Structural, optical, electrical, and dielectric properties of the spray-deposited WO ₃ thin films	V.V. Ganbavle , G.L. Agawane, A.V. Moholkar, J.H. Kim, K.Y. Rajpure	Physics	Journal of Materials Engineering and Performance	2014	Print ISSN 1059-9495	https://www.springer.com/journal/11665	https://link.springer.com/article/10.1007/s11665-014-0873-3	yes
26	Effect of Co doping on structural, morphological and LPG sensing properties of nanocrystalline ZnO thin films	V.V. Ganbavle , S.K. Patil, S. I. Inamdar, S.S. Shinde, K.Y. Rajpure	Physics	Sensors and Actuators A: Physical	2014	Print ISSN: 0924-4247 Online ISSN: 1873-3069	https://www.sciencedirect.com/journal/sensors-and-actuators-a-physical	https://www.sciencedirect.com/science/article/abs/pii/S0924424714003045	yes
27	ZnO based visible-blind UV photodetector by spray pyrolysis	S.I. Inamdar, V.V. Ganbavle ,	Physics	Superlattices and Microstructures	2014	Online ISSN: 2773-0123 Print ISSN:	https://www.sciencedirect.com/journal/superlattices-and-microstructures	https://www.sciencedirect.com/science/article/abs/pii/S074960361400384X	yes

		K.Y. Rajpure				2773-0131			
28	Self-cleaning silica coatings on glass by single step sol-gel route	V.V. Ganbavle, U.K.H. Bangi, S.S. Latthe, S.A Mahadik, A.V. Rao	Physics	Surface and Coatings Technology	2011	Print ISSN: 0257-8972 Online ISSN: 1879-3347	https://www.sciencedirect.com/journal/surface-and-coatings-technology	https://www.sciencedirect.com/science/article/abs/pii/S0257897211006025	yes
29	Influence of preparation conditions on nanoporous structure and optical transmission of sodium silicate based ambient pressure dried aerogels employing shaking	A.V. Rao, V.V. Ganbavle, U.K.H. Bangi, S.L. Dhere	Physics	Journal of Porous Materials	2011	Electronic ISSN 1573-4854 Print ISSN 1380-2224	https://www.springer.com/journal/10934	https://link.springer.com/article/10.1007/s10934-010-9444-7	yes

20. Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings:

Sr. No.	Title of the book/chapters published/ Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN	Affiliating Institute at the time of publication	Name of the publisher
---------	--	--	------------------------	--------------------------	---------------------	------	--	-----------------------

1.	Physico-chemical properties of sol-gel derived glass coatings	---	---	---	2019	978-6139993024	DKASC College	Lambert Academic Publishing
2.	ZnO based ultraviolet photodetectors	---	---	---	2016	978-3-659-94168-9	DKASC College	Lambert Academic Publishing
3.	Physico-chemical, Electrical and Dielectric properties of the spray deposited WO ₃ films for gas sensor application (Book chapter)	Advanced nano materials for industrial applications	International symposium on macro and supra molecular architectures and materials: nano systems and applications	International	2012	978-93-5254-490-5	Shivaji University, Kolhapur	Bloosbury Publishing India Pvt. Ltd.

21. Details of Workshop/ Seminar/ Conference/ Symposia Attended/ Participated/ Presented:

National:

International:

Sr. No.	Name of conf., workshop, seminar, symposia	Date	Level	Role (Attended, presented, participated)
1	Poster Presentation Competition	28-07-2017	College	Organized
2	E resources and plagiarism issues in research	10-09-2017	College	Participated
3	Disaster Management	16-01-2018	College	Participated

4	Innovative practices in higher education : A need of rural and tribal students	10-02-2018	National	Participated
5	Nano and Condensed materials and their applications	24-03-2018	National	Presented
6	Faculty development workshop on NAAC: Revised accreditation framework (RAF) for the Principals/ IQAC coordinators of affiliated colleges	8,9,10-05-2019	University	Participated
7	NAAC related (new framework) quality culture development	1-02-2019	College	Participated
8	AQAR and academic and administrative audit in revised assessment and accreditation framework	28-12-2018	State	Organized
9	One day workshop on Intellectual Property Rights	25-10-2018	College	Participated
10	One day workshop on new changed syllabus (CBCS) of B.Sc. Part I Physics	20-08-2018	University	Participated
11	Three Days State Level Training Programme (FDP) Empowerment of IQAC and NAAS new guidelines	20,21,22-10-2018	State	Participated
12	Metrical Aspects and documentation in revised framework of NAAC	29-02-2020	State	Participated
13	New concepts in revised assessment and accreditation framework	27-09-2019	State	Participated
14	One day workshop on new changed syllabus (CBCS) of B.Sc. Part II Physics Practical	21-08-2019	University	Participated
15	NPTEL workshop on conducted on	22-07-2019	University	Attended
16	New spirit of assessment and accreditation process	20-07-2019	University	Attended
17	NiCo ₂ S ₄ Pani thin films for electrochemical storage	30-04-2020	International	Presented

18	Metrical aspects and Documentation of Revised framework of NAAC	19-02-2020	State	Attended
19	Free MOOC to complement engineering education	13-05-2020	National	Participated
20	Webinar – a)Application of Chanakya Niti in Modern Education	21-05-2020	International	Participated
21	Marketing Strategic for soar to more	19-05-2020	National	Participated
22	Online Educational Tools : A Miracle for Effective Teaching	23-05-2020	National	Participated
23	Winning in the new World	16-05-2020	National	Participated
24	Online Conference - Clean Energy Conversion and Storage Technologies	30-04-2020	International	Presented
25	Webinar Overview of Securities Market and Latest Development	19-12-2020	State	Attended
26	'Covid19' and sustainable tourism: challenges	28-09-20	State	Attended
27	Recent Scenario In Energy Generation and Storage Technologies” (IWRSEGST-2020)	05-09-2020	International	Attended
28	Online - Two week workshop on universal human values	23-11-20 to 04-12-20	National	Attended
29	New changed syllabus of B.Sc. III Physics (CBCS Pattern) Laboratory Experiments Gp-I to VI	01-12-21	University	Attended
30	Advanced Materials for Multifunctional Applications	04-09-21	National	Attended
31	Webinar- Online Teaching, Learning & Cyber Security	02-09-20	National	Attended
32	Webinar-How to Write Research Proposal in Various Funding Agencies	12-01-21	National	Attended
33	Webinar - Higher Education in the light of National Education Policy-2020	26-01-22	National	Attended

34	Webinar - IP Awareness/Training program under National Intellectual Property Awareness Mission	13-04-2022	National	Attended
35	National Education Policy - 2020	24-04-2022	University	Attended
36	e-Educational content development	11-05 to 20-05-2020	State	Participated
37				
38				
39				
40				

22. Lectures Delivered at Workshop/ Seminar/ Conference/ Symposia and other as Resource Person :

Sr. No.	Name of conf., workshop, seminar, symposia	Date	Level	Role (Attended, presented, participated)
1	Second International Conference on Advances in Materials Science (ICAMS-2017)	22-23-12-2017	International	Worked as referee in poster presentation event
2	Digital literacy			
3				

23. Projects ongoing/completed

Sr. No.	Name of the research project/ endowment	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency
1.	Soft chemical synthesis of NiCo ₂ S ₄ -PANI electrode for electrochemical energy storage	Dr. V. V. Ganbavle	Physics	2018	1,25,000/-	2 years	Shivaji University, Kolhapur

24. Details of teachers undergoing Faculty Development Programmes, Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course / Certificate Course (MSCIT, TALLEY, JAVA, MOOCS) etc.)

Sr. No.	Title of the program	Duration (from – to) (DD-MM-YYYY)
1	105 th Orientation Course	13-02-2019 to 12-03-2019
2	Refresher Course in data Science and Machine learning	05 to 19-03-2020
3	Managing online classes and co-creating moocs	20-04-2020 to 06-05-2020
4	Scilab Training (Two weeks)	07-05-2020
5	Data Science - Research Opportunities	21-05-2020

25. Membership of Institutional /Professional bodies: ---

26. DECLARATION:

I hereby declare that all information in this document is true, complete and correct to the best of my knowledge and belief.

Place: Ichalkaranji

Signature

Date: 25-03-23

(Dr. Vinayak Ganbavle)