



## Curriculum Vitae

**Name (in Block Letters):** GAMBHIRE ANIL BHARATRAO

**Department:** Department of Chemistry, Shri Anand  
College, Pathardi, Dist. Ahmednagar

**Current Designation & Grade Pay:** Professor

**Date of last Promotion:** 12<sup>th</sup> January 2021

**Date and Place of Birth:** 22/10/1969, Place of Birth: Jalna

**Nationality:** Indian

**Category:** SC

**Address for correspondence:** "Bharat" Wamanbhaunagar,  
Plot No. 42, Pathardi,  
Dist. Ahmednagar,  
Pin-414102

### Academic Qualifications:

Examinations	Name of the Board/ University	Year of Passing	Percentage of marks obtained	Division/ Class/Grade	Subject
B.Sc	Dr. BAM, Marathwada University	1992	64.70%	I	Chemistry
M.Sc	Dr. BAM, Marathwada University	1994	57.5%	II	Inorganic Chemistry
SET	State Agency, Pune	15 <sup>th</sup> Jun 2001	---	Qualified	Chemical Science
Ph.D.	Dr. BAM, Marathwada University	22 <sup>nd</sup> June 2010	---	Awarded	Chemistry

## **Professional Experience:**

### **Period of teaching experience:**

P.G. Classes (in years)            6 Years  
U.G. Classes (in years)            28 Years

**Research Experience excluding years spent in M. Phil / Ph. D (in years):** 13 years

### **Fields of Specialization under the Subject / Discipline:** Inorganic Chemistry

- Professor, Department of Chemistry, Shri Anand College, Pathardi, Dist. Ahmednagar (Date of joining 8/10/1998).
- Research experience (registered for Ph.D. degree on 31<sup>st</sup> July 2004 and awarded in the year 2010).

Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS) India.

- Recognized as P.G. teacher and Ph.D. guide by SPPU, Ref. No.: BUTR/Science/2191-90, Date: 01/06/2012 and BUTR/Science/14/422, Date: 21/04/2015, respectively.

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- Recognized as P.G. teacher and Ph.D. guide by SPPU, Ref. No.:BOD/Sci. & Tech./15/109, Date: 13/04/2023.
- Collaborative research work
  - New Arts, Science and Commerce College, Ahmednagar.
  - New Arts, Science and Commerce College, Shevgaon, Dist. Ahmednagar
  - Dadapatil Rajale College, Adinathnagar, Tal. Pathardi, Dist. Ahmednagar
  - Jijamata College, Bhende (BK), Tal. Newasa, Dist. Ahmednagar.
  - Kalikadevi College Shirur Kasar, Dist. Beed.
- Member of Selection committee (Interview panel).
- Member of CAS committee.
- Chairman of recognition committee
- Coordinator of DST-FIST program.

### **Research area:**

- Synthesis, characterization and applications of metal oxides.
- Synthesis and characterization of inorganic functional materials and its applications.
- Use of natural zeolite and fly ash in organic transformation

- Synthesis, characterization and photocatalytic degradation of environmental pollutants
- Nanostructured Cost-effective Metal catalyst for Energy application.

### Experimental Skills:

- Expertise handling in conventional as well as modern synthetic reactions.
- Expertise handling in software.
- Experience in all aspects of techniques for isolation, separation, purification of products.
- Structural analysis of nanosize materials by FT-IR, XRD, SEM, EDS, TPD-TPR, XPS and TEM.

### Refresher courses, Teaching-Learning-Evaluation Technology, Faculty Development Programmes:

Sr. No.	Programme	Place	Duration	Organized by
1	Orientation Course	ASC, Pune	8/11/2002 to 5/12/2002	University of Pune.
2	Refresher Course	ASC, Aurangabad	3/12/2004 to 23/12/2004	Dr. BAM University, Aurangabad
3	Refresher Course	ASC, Goa	28/03/2009 to 18/4/2009	Goa University, Goa
4	Refresher Course	ASC, Jaipur	7/01/2013 to 26/01/2013	Rajasthan University
5	Short-Term course	ASC, Aurangabad	18/11/2013 to 23/11/2013	Dr. BAM University, Aurangabad

### Research Papers in Peer-Reviewed or UGC listed Journals

Sr. No.	Title of the publication	Name of Journal, Volume, Year, Pages, ISSN/ISBN number	Status Peer reviewed or UGC listed /Impact Factor / Author Status
1	Synthesis and characterization of high surface area CeO <sub>2</sub> -doped SnO <sub>2</sub> nanomaterials <i>A.B. Gambhire, M.K. Lande, S.B. Kalokhe, M.D. Shirsat, K.R. Patil, R.S. Gholap, B.R. Arbad</i>	Materials Chemistry and Physics, 112 (2008) 719-722. <b>ISSN: 0254-0584</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>2.781</b>
2	Photocatalytic activity and characterization of the sol-gel derived Cr (III) doped TiO <sub>2</sub> -coated active carbon composites <i>A.B. Gambhire, M.K. Lande, A.B. Mandale,</i>	Philosophical Magazine (Taylor and Francis), 88 (2008) 767-779. <b>ISSN:1478-6435 (Print), 1478-6443 (Online)</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>1.384</b>

	<i>K.R. Patil, B.R. Arbad</i>		
3	Synthesis and characterizations of NiTiO <sub>3</sub> nanoparticles prepared by sol-gel process <i>A.B. Gambhire, M.K. Lande, S.B. Kalokhe, A.B. Mandale, K.R. Patil, R.S. Gholap and B.R. Arbad</i>	Philosophical Magazine Letters (Taylor and Francis), 88 (2008) 467-472. <b>ISSN:0950-0839 (Print), 1362-3036 (Online)</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>1.262</b>
4	Photocatalytic activity and characterization of the Nd-CexTi(1-x)O <sub>2</sub> derived by sol-gel dip coating method <i>A.B. Gambhire, B.R. Arbad and M.K. Lande</i>	Bull. Catalysis, society of India, 7 (2008) 28-40. <b>ISSN: 2347-5382</b>	<b>Peer Reviewed</b> UGC Approved Journal Impact Factor <b>1.878</b>
5	Synthesis and characterization of high-surface-area Ag <sub>2</sub> O-doped SnO <sub>2</sub> nanomaterials <i>A.B. Gambhire, M.K. Lande, S.B. Kalokhe, M.D. Shirsat, K.R. Patil, R.S. Gholap and B.R. Arbad</i>	Philosophical Magazine Letters (Taylor and Francis), 89 (2009) 213-219. <b>ISSN: 0950-0839 (Print), 1362-3036 (Online)</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>1.262</b>
6	Synthesis, Characterization and Catalytic Activity of Ce <sub>1</sub> MgxZr <sub>1-x</sub> O <sub>2</sub> (CMZO) Solid Heterogeneous Catalyst for the Synthesis of 5-Arylidine Barbituric acid Derivatives <i>S.B. Rathod, A.B. Gambhire, B.R. Arbad, M.K. Lande</i>	Bull. Korean Chem. Soc. 2010, Vol. 31, No. 2. <b>ISSN: 0253-2964, (Print), 1229-5949 (Online)</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>0.8711</b>
7	Preparation, characterization and catalytic activity of MoO <sub>3</sub> /CeO <sub>2</sub> -ZrO <sub>2</sub> solid heterogeneous catalyst for the synthesis of β-enaminones <i>S.B. Rathod, M.K. Lande, B.R. Arbad, A.B. Gambhire</i>	Arabian Journal of Chemistry Doi: 10.1016/j.arabjc.2010.10.027 <b>ISSN:1878-5352</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>3.298</b>
8	Improvement of ammonia sensing properties of poly(pyrrole)-poly (n-methylpyrrole) composite by ion irradiation <i>S.B. Kadam, K.Datta, P. Ghosh, A.B. Kadam, A.B. Gambhire, M.D. Shirsat</i>	Applied Physics A, Doi: 10.1007/s00339-010-5705-1. <b>ISSN: 0947-8396 (Print), 1432-0630 (Online)</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor 1.545
9	Degradation of methylene blue via photocatalysis of transition metal-loaded sulfated TiO <sub>2</sub> <i>A.B. Gambhire, M.K. Lande, S.B. Rathod, R.S. Gholap, K.R. Patil</i>	Materials Chemistry and Physics, 125 (2011) 807-812. <b>ISSN:0254-0584</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>2.781</b>
10	Synthesis and characterization of FeTiO <sub>3</sub> ceramics <i>A.B. Gambhire, M.K. Lande, S.B. Rathod, B.R. Arbad, K.N. Vidhate, R.S. Gholap, K.R. Patil</i>	Arabian Journal of Chemistry. Doi: 10.1016/j.arabjc.2011.05.012 <b>ISSN:1878-5352</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>3.298</b>
11	Effect of poly(ethylene glycol) surfactant on carbon-doped MoO <sub>3</sub> nanocomposite materials and its photocatalytic activity <i>M.E. Navgire, M.K. Lande, A.B. Gambhire, S.B. Rathod, D.V. Aware and S.R. Bhitre</i>	Bull. Mater. Sci. Vol. 34, No. 3, June 2011, pp. 535-541. <b>ISSN: 0250-4707 (Print), 0973-7669 (Online)</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>1.264</b>
12	Photocatalytic activity and characterization of sol-gel-derived Ni-doped TiO <sub>2</sub> -coated active carbon composites <i>R.R. Bhosale, S.R. Pujari, M.K. Lande, B.R. Arbad, S.B. Pawar, A.B. Gambhire</i>	Applied surface Science, 261 (2012) 835-841 <b>ISSN: 0169-4332</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>5.155</b>

13	Visible-light-activated nanocomposites photocatalyst of Cr <sub>2</sub> O <sub>3</sub> /SnO <sub>2</sub> <i>R.R. Bhosale, S. Pujari, G.G. Muley, B.Y. Pagare and A.B. Gambhire.</i>	Journal of Nanostructure in Chemistry, a Springer open Journal, 2013, 3:46 <a href="http://www.jnanochem.com/content/3/1/46">http://www.jnanochem.com/content/3/1/46</a> <b>ISSN:2008-9244 (Print), 2193-8865 (Online)</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>1.586</b>
14	Solar photocatalytic degradation of methylene blue using doped TiO <sub>2</sub> nanoparticles <i>R.R. Bhosale, S.R. Pujari, G.G. Muley, S.H. Patil, K.R. Patil, M.F. Shaikh, A.B. Gambhire</i>	Solar Energy, 103 (2014) 473-479. <b>ISSN: 0038-092X</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>4.674</b>
15	Amino acids (L-arginine and L-alanine) passivated CdS nanoparticles: Synthesis of spherical hierarchical structure and nonlinear optical properties. <i>S.S. Talwatkar, Y.S. Tamgadge, A.L. Sunatkari, A.B. Gambhire, G.G. Muley</i>	Solid stat Science, 38(2014), 42-48. <b>ISSN: 1293-2558</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>2.155</b>
16	Novel study on determination of crystal growth conditions for L-arginine phosphate monohydrate crystal by ultrasonic velocity measurement in aqueous solution of L-arginine and phosphoric acid <i>Gajanan Muley, Pratiksh Labdea, Anil Naik &amp; Anil Gambhire</i>	Analytical Chemistry letters, <a href="http://dx.doi.org/10.1080/22297928.2014.909740">http://dx.doi.org/10, 1080/22297928,2014,909740</a> TACL 4 (2) 2014 pp 86 - 92 <b>ISSN: 2229-7928 (Print), 2230-7532 (Online)</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>1.030</b>
17	Gas sensing properties of nanocrystalline silver/tin dioxide sensor prepared by precipitation method. <i>Shivanand G. Sonkamble and Anil B. Gambhire</i>	Advances in Applied Science Research, 2014, 5(5):12-18. <b>ISSN:0976-8610</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>1.322</b>
18	Photocatalytic degradation of phenol under visible light using doped-TiO <sub>2</sub> nanoparticles <i>Anil Gambhire, M.F. Shaikh, B.Y. Pagare, S.K. Narwade, G.G. Muley</i>	Journal of Advances in Science and Technology, Vol 14(1), (2014) 78-80, <b>ISSN: 0971 - 9563</b>	<b>Peer Reviewed</b> UGC Approved Journal Impact Factor <b>0.699</b>
19	Investigation on intermolecular interaction in supersaturation state of cadmium sulphate mixed zinc tris-thioureasulphate solutions <i>G.G. Muley, A.B. Naik, A.B. Gambhire</i>	Journal of molecular and engineering materials, Vol. 2, No. 3(2014) 1450002. <b>ISSN:2251-2373 (Print), 2251-2381 (Online)</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>1.212</b>
20	Optical properties of potassium nitrate doped L-threonine single crystal <i>G.G. Muley, A.B. Naik, A.B. Gambhire</i>	J. Adv. Appl. Sci. Technol. 1 (2014) 224-227. <b>ISSN: 2393-8188 (Print) 2393-8196 (Online)</b>	<b>Peer Reviewed</b> UGC Approved Journal
21	Cladding modification with pani-sulphanilic composite for fiber optic intrinsic glucose biosensor <i>V.G. Paturkar, Y.S. Tamgade, V.K. Nagale, A.B. Gambhire, G.G. Muley</i>	J. Adv. Appl. Sci. Technol. 1 (2014) 228-231. <b>ISSN: 2393-8188 (Print) 2393-8196 (Online)</b>	<b>Peer Reviewed</b> UGC Approved Journal
22	Kinetics of heterocyclic compound <i>B.Y. Pagare, A.B. Gambhire, S.P. Lawande, B.R. Arbad</i>	J. Adv. Appl. Sci. Technol. 1 (2014) 199-200. <b>ISSN: 2393-8188 (Print) 2393-8196 (Online)</b>	<b>Peer Reviewed</b> UGC Approved Journal
23	Synthesis, characterization and solar photocatalytic degradation of phenol using doped TiO <sub>2</sub> nanoparticles <i>V.T. Tagad, M.E. Navgire, G.G. Muley, B.Y. Pagare, S.K. Narwade, A.B. Gambhire</i>	JAAST: Material Science (Special Issue) December – 2014 Vol. 1 Issue 2 Page 196-198 <b>ISSN: 2393-8188 (Print) 2393-8196 (Online)</b>	<b>Peer Reviewed</b> UGC Approved Journal

24	Evanescent wave absorption based polyaniline cladding modified fiber optic intrinsic biosensor for glucose sensing application <i>V.G. Pahurkar, Y.S. Tamgadge, A.B. Gambhire, G.G. Muley</i>	Measurement 61 (2015) 9-15. <b>ISSN: 0263-2241</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>2.791</b>
25	Growth, optical and dielectric studies of glycine doped ammonium dihydrogen phosphate NLO crystal: potential material for optoelectronics applications <i>R.N. Shaikh, M. Anis, A.B. Gambhire, M.D. Shirsat and S.S. Hussaini</i>	Materials Research express, Doi: 1088/2053-1591/1/1/15016. ISSN:2053-1591	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>0.73</b>
26	Glucose oxidase immobilized PANI cladding modified fiber optic intrinsic biosensor for detection of glucose <i>V.G. Pahurkar, Y.S. Tamgadge, A.B. Gambhire, G.G. Muley</i>	Sensors and Actuators B 210 (2015) 362–368 <b>ISSN: 0925-4005</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>6.393</b>
27	Glucose detection using polyaniline-ZrO <sub>2</sub> composite cladding modified fiber optic intrinsic biosensor <i>V.G. Pahurkar, Y.S. Tamgadge, A.B. Gambhire, G.G. Muley</i>	Bionano Frontier, 8(2015) 261-264. <b>ISSN: 0974-0678</b> <b>(Print), Online: 2320-9593.</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>4.856</b>
28	Optical properties of L-alanine passivated CdS nanoparticles <i>S. S. Talwatkar, A. L. Sunatkari, A. B. Gambhire, A. B. Naik, G. B. Harde and G. G. Muley</i>	J. Indian Chem. Soc., 92 (2015) 713-716. <b>ISSN: 0019-4522</b>	<b>Peer Reviewed</b> UGC Approved Journal Impact Factor <b>0.145</b>
29	Optical properties of KCl doped L-arginine phosphate monohydrate nonlinear optical single crystal <i>G.G. Muley, A.B. Naik, A.B. Gambhire</i>	Bionano Frontier, 6(3) (2015) 269-271. <b>ISSN: 0974-0678</b> <b>(Print), Online: 2320-9593.</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>4.856</b>
30	Solar photocatalytic degradation of methylene blue using Sb-doped TiO <sub>2</sub> nanoparticles <i>R. Jain, P. Singhal, D. Goyal, A.B. Gambhire</i>	J. Adv. Appl. Sci. Technol. 1 (2015) 47-52. <b>ISSN: 2393-8188 (Print)</b> <b>2393-8196 (Online)</b>	UGC Approved Journal
31	Comparative studies on linear and nonlinear optical properties of low and high mole% glycine doped bis-thiourea cadmium formate crystals <i>Mohd Anis, AB Gambhire, MD Shirsat, SS Hussaini</i>	Optik-International Journal for Light and Electron Optics, 126 (2015) 1381-1387. <b>ISSN: 00304026</b>	UGC Approved Journal
32	Influence of urea doping on optical, thermal, mechanical and electrical properties of L-arginine phosphate monohydrate crystals for NLO applications <i>Pratik M. Wankhade, Anil B. Gambhire, Gajanan G. Muley</i>	Optik, 127(2016) 3322-3328. <b>ISSN: 0030-4026</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>1.914</b>
33	Effect of partial replacement of Zn with Cd on optical properties of zinc thiourea chloride (ZTC) crystal. <i>G.G. Muley, P.S. Ambhore, A.B. Naik, A. B. Gambhire</i>	Procedia Technol., 24(2016)715-720. <b>ISSN: 2212-0173</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>1.215</b>
34	Fly ash supported one pot synthesis of 1-(2-Hydroxyl Phenyl) 3-(3-Furyl-2-yl-1-phenyl-1H-pyrazol-4-yl) 2-propen-1-ones using	Int. J. Green Herbal Chem. 6(2016) 11-15. <b>E-ISSN: 2278-3229.</b>	<b>Peer Reviewed</b> UGC Approved Journal

	mixrowave irradiation method. <i>V.T. Tagad, U.G. Ghoshir, I.B. Shaikh, S.B. Pawar, A.B. Gambhire,</i>		
35	Polyaniline-Cds nanocomposite/GOx matrix modified optical fiber based biosensor for glucose detection. <i>V.G. Pahurkar, V.K. Nagale, A.B. Gambhire, G.G. Muley</i>	Res. J. Chem. Sci., 7(3)(2017), 33-35 <b>ISSN: 2231-606X</b>	<b>Peer Reviewed</b> UGC Approved Journal
36	Investigation on effect of LiCl doping on optical properties of arginine acetate single crystal <i>G.G. Muley, P.S. Ambhore, A.B. Gambhire</i>	Mater. Today: proceedings 4(2017) 9491-9495 <b>ISSN: 00002014.</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>0.694</b>
37	Synthesis, characterization and photocatalytic activity of active carbon/ZnO nanocomposites using solar light <i>S.R. Kande, U.G. Ghoshir, J.K. Khedkar, A.B. Gambhire</i>	International Journal of Green and Herbal Chemistry, sec. A.; Vol. 2(2018) 567-580. <b>ISSN: 2278-3229</b>	<b>Peer Reviewed</b> UGC Approved Journal
38	Nanocrystalline B/C/S-doped ZnO-SnO <sub>2</sub> Photocatalysts: Preparation, Characterization and Photocatalytic Performance <i>S.R. Kande, U.G. Ghoshir, J.K. Khedkar, G.G. Muley and A.B. Gambhire</i>	Asian Journal of Chemistry, 31(2018)1971-1978 <b>ISSN: 0970-7077</b>	<b>Peer Reviewed</b> UGC Approved Journal
39	Cds loaded activated carbon: An efficient, solar light driven photocatalyst for RhB dye degradation <i>S.R. Kande, U.G. Ghoshir, J.K. Khedkar, A.B. Gambhire</i>	Oriental J. Chem. 35(2018) 1037-1044. <b>ISSN:0970-020X</b>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>0.37</b>
40	Development and MPD sensing study of fiber optic POA/GOX modified biosensor for the detection of glucose <i>V. G. Pahurkar, Y. S. Tamgadge, P. M. Wankhade, A. B. Gambhire and G. G. Muley</i>	Inter. J. Adv. Innovative Res. (2018). <b>ISSN: 2394-7780</b>	<b>Peer Reviewed</b> UGC Approved Journal Impact Factor <b>0.999</b>
41	Optical and structural properties of Dy <sub>2</sub> O <sub>3</sub> doped aluminum zinc borate glasses <i>S. R. Dagdale, M. N. Rode, AB. Naik, A.B. Gambhire, G. G. Muley</i>	Inter. J. Adv. Innovative Res. (2018). <b>ISSN: 2394-7780</b>	<b>Peer Reviewed</b> UGC Approved Journal Impact Factor <b>0.999</b>
42	Solar photocatalytic degradation of Rhodamine B using co-doped TiO <sub>2</sub> nanoparticles <i>RR.Bhosale, S.R. Pujari, G.G. Muley, S.R. Kande, U.G. Ghoshir, S.B. Kalokhe, A.B. Gambhire</i>	Int. Res. J. of Science & Engineering, special issue, (2018), A2: 195-201 ISSN: 2322-0015	<b>Peer Reviewed</b> UGC Approved Journal
43	Synthesis and characterization of co-doped fly ash catalyst for chalcone synthesis <i>U.G. Ghoshir, S.R. Kande, G.G. Muley, and A.B. Gambhire</i>	Asian J. Chem, 31 (2019) 2165-2172.	<b>Peer Reviewed</b> UGC Approved Journal
44	Co-doped SnO <sub>2</sub> supported on activated carbon: An efficient solar photocatalyst for the degradation of Rhodamine B <i>S.R. Kande, B.H. Zaware, G.G. Muley and A.B. Gambhire</i>	Asian Journal of Chemistry, 32(2020) 519-527. <b>ISSN: 0970-7077</b>	<b>Peer Reviewed</b> UGC Approved Journal
45	Multilayered Vanadium Carbide-Reduced Graphene Oxide 2 (VC@rGO) Nanocomposite as an Ultrahigh-Capacity Anode Material for Li- and Na-Ion	ACS Applied Energy Materials <a href="https://doi.org/10.1021/acsaem.1c03496?urlappend=%3Fref%3DPDF&amp;j">https://doi.org/10.1021/acsaem.1c03496?urlappend=%3Fref%3DPDF&amp;j</a>	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>6.024</b>

	Batteries <i>Sandeep Kanade, Manu Gautam, Anuradha Ambalkar, Yogesh Sethi, Musthafa Ottakam Thotiyl,* Bharat B. Kale,* and Anil B. Gambhire*</i>	<a href="#">av=AM&amp;rel=cite-as</a>	
46	A Nanostructured Mo <sub>2</sub> C-rGO** Heterostructure as a stable Anode with ultra-high capacity for Lithium-Ion Battery <i>Sandeep C. Kanade, Anuradha A. Ambalkar, Yogesh A. Sethi, Musthafa Ottakam Thotiyl,* Bharat B. Kale,* and Anil B. Gambhire*</i>	Chemistry Select 2022, e202104252 doi.org/10.1002/slct.202104252	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor <b>2.109</b>
47	Conversion of carbohydrates (glucose and fructose) into 5-HMF over solid acid loaded natural zeolite (PMA/NZ) catalyst <i>Sonal Gupta, A.B.Gambhire, Renuka Jain</i>	Materials Letters Volume 13, March 2022, 100119	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor: <b>3.423</b>
48	NaCl, KCl and SrCl <sub>2</sub> Doping Effect on Linear and Nonlinear Optical Properties of KDP Crystal <i>P. S. Ambhore, S. K. Devade, A. B. Gambhire and G. G. Muley</i>	Physical Science International Journal 4(10): 1340-1350, 2014 ISSN: 2348-013	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor:
49	Fly ash based hybrid material as mild reusable and highly efficient heterogeneous catalyst for the synthesis of amidoalkyl naphthol, <i>U.G. Ghoshir, A.B. Gambhire</i>	Int. J. Anal. Expt. Model analysis, XLV (VI)2022, ISSN: 0886-9367.	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor:
50	Synthesis, characterization and screening of novel fly ash based hybrid materials use as a catalyst for synthesis of benzimidazole and benzoxazole derivatives <i>U.G. Ghoshir, B.H. Zaware, A.E. Athare, A.B. Gambhire</i>	Malaysian J. Chemistry 25 (2023) 49-61.	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor:
51	Synergistically doped fly ash catalyst is high effective in the synthesis of xanthenes derivatives <i>U.G. Ghoshir, S.J. Takate, U.N. Chaudhar, A.B. Gambhire</i>	Heterocyclic Letters, 13(2023) 759-773, ISSN: 2231-3087	<b>Peer Reviewed</b> UGC Approved Journal <i>Thomson Reuters</i> Impact Factor:
52	<b>Proceeding paper:</b> Crystal structure and SHG efficiency study on NaCl doped KDP crystals <i>P.S. Ambhore, A.B. Gambhire, S.K. Devade, G.G. Muley</i>	Int. J. Basic Appl. Res., Special issue ISSN: 2249-3352.	National Conference
53	<b>Proceeding paper:</b> Kinetics of Formation of 4-Thiazolidinones by Cyclocondensation Reaction of Schiff Bases and Thiolactic Acid <i>B. Y. Pagare, S. B. Pawar, M. F. Shaikh, A. B. Gambhire, S. K. Narwade, S. P. Lawande, B.R. Arbad</i>	Proc., UTCS, ISBN-978-81-905776-99-9, 2013, 33-36.	National Conference
54	<b>Proceeding paper:</b> Synthesis of Some Chlorinated Pyrazolyl Compounds by Non-Conventional Methods <i>S. K. Narwade, B. K. Karale, S. B. Pawar,</i>	Proc., UTCS, ISBN-978-81-905776-99-9, 2013, 64-66.	National Conference



	<i>M. F. Shaikh, B. Y. Pagare, A. B. Gambhire</i>		
55	<b>Proceeding paper:</b> Synthesis of 1-Phenyl-2 [(1,3-Diphenyl-1h-Pyrazol-4-Yl) Methylene ] 3-(2-HydroxyPhenyl) Propan-1,3-Diones and [3-(Aroyl), 2- (1,3-Diphenyl-1h-Pyrazol-4-Yl) -1h- Chromon-4-Ones. <i>S.B. Pawar, B.K. Karale, M.F.shaikh,, A.B Gambhire, S.K. Narwade and C.H. Gill</i>	Proc.,UTCS, ISBN-978-81-905776-99-9, 2013, p.p. 50-52.	National Conference
56	<b>Proceeding paper:</b> Synthesis and Characterization of 2-Ethyl-3-(1-Methyl-3-n-Propyl-1HPyrazol-5-Carbonyl) Chromon-4-Ones and (2-Hydroxy Phenyl),(3-(1-Methyl-3-n-Propyl-1h-Pyrazol-5-YL)-4H-Benzo[b][1,4]Thiazin-2YL) Methanone <i>S.B. Pawar, S.K. Narwade, A.B. Gambhire, B.K. Karale, C.H. Gill</i>	Proc., UTCS, ISBN-978-81-905776-99-9, 2013, 96-98.	National Conference
57	<b>Proceeding paper:</b> Refractive Index and Conductance Measurement of Some Pharmaceutical Drugs in Aqueous Ethanol System at 301.5 k <i>M. F. Shaikh, S.B. Pawar, B.Y. Pagare, S.K. Narwade, A.B. Gambhire, M. N. Farooqui</i>	Proc. ISBN-978-81-905776-99-9, 2013, 25-27.	National Conference
58	<b>Proceeding paper:</b> Optical properties of urea doped L-arginine phosphate monohydrate (LAP) single crystal <i>P.M. Wankhade, A.B. Gambhire, A.B. Naik, S. P. Bhagat, G.G. Muley</i>	Proc., UTCS, ISBN-978-81-905776-99-9, 2013, 96-98.	National Conference
59	<b>Proceeding paper:</b> Optical properties of KCl doped L-arginine phosphate monohydrate nonlinear optical single crystal. <i>Pratik M. Wankhadel, Satish A. Athawaler, Anil B. Naik, Anil B. Gambhire, Galanan G. Muley</i>	Proc., NCRTM PA, ISBN: 97 8 -8t-9291, 60, 2014, 2-6.	National Conference
60	<b>Proceeding paper:</b> Synthesis and characterizations of NiTiO <sub>3</sub> nanoparticles, <i>A. B. Gambhire, Dr. S. B. Pawar, Dr. M. F. Shaikh, Dr. B. Y. Pagare, Dr. S. K. Narwade, A.B. Pawase, S. B. Kalokhe,</i>	Proc. (2016), ISSN: 2393-8188.	National Conference
61	Fly ash doped catalyst is highly effective in the synthesis of bis(3-indolyl) methane derivatives <i>U.G. Ghoshir, U.N. Chaudhar, S.B. Pawar, A.B. Gambhire</i>	Proc. NCRAS-2023	National Conference

### Articles/Chapter published in books

Sr. No.	Title with page nos.	type of Book & Authorship	Publisher & ISSN/ISBN No.	Whether peer reviewed	No. of co-authors	Whether you are the main author
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1.	A proceeding of National Conference Page. No. 1-159.	Upcoming Trends in Chemical Science Editor: A.B. Gambhire, Publisher: Nabh Prakashan, Amravati	ISBN-978-81-905776-99-9	Yes	Five	Yes
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### Citation Index

<b>Agency</b>	<b>Citation index</b>	<b>h-index</b>	<b>i-10 index</b>
Citation	<b>610</b>	<b>17</b>	<b>20</b>

### Ongoing/completed Projects

Sr. No.	Title	Agency	Period	Status	Grant /Amount Mobilized (Rs. Lakh)
1.	Synthesis, characterization and application of mixed metal/nonmetal oxides	UGC, New Delhi	2006-08	Completed	40000/-
2.	“Influence of the preparation method on the phase evolution and catalytic properties of some ultrafine metal oxides”	BCUD, SavitribaiPhule Pune University	2008-10	Completed	100000/-
3.	Synthesis, characterization and applications of ceramic base photocatalyst, sensor device and inorganic functional nanomaterials.	UGC, New Delhi	2009-11	Completed	70000/-
4.	DST-FIST Coordinator	DST-College at zero level	2015	Ongoing	90,00000/-
5.	Co-doped nanosize metal oxides: Synthesis, characterization and applications	DST-SERB	2016	Completed	5,50,000/-

#### D. Research Guidance

Sr. No.	Number Enrolled	Thesis submitted	Degree awarded
Ph.D.	03	Nil	03

#### Papers presented in conferences, seminars, workshops, symposia

Sr. No.	Title of paper presented	Organized by, title of conference/seminar etc.	Whether International/National/State /Regional/University or college level
1	Presented a paper entitled with Synthesis and characterization of lanthanides doped TiO <sub>2</sub> for Photocatalytic application	National Seminar on Kinetics and mechanistic studies of chemical and biochemical, transformations organized by Dr. Babasaheb Ambedkar Marathwada University, during 26-27 Feb. 2005.	National Seminar
2	Presented a paper entitled with Photocatalytic activity and characterization of carbon composite nanomaterials	National Seminar on 43rd Annual Convention of Chemists 2006, organized by Dept of chemistry Dr. BAM, University, Aurangabad, during 23-27 <sup>th</sup> December 2006.	National Seminar
3	Presented a paper entitled with Synthesis and characterization of CeO <sub>2</sub> -doped SnO <sub>2</sub>	National Conference on Effect of synthetic drugs on human metabolism, organized by Pratishtan Mahavidyalaya, Paithan, Dist. Aurangabad, during 21-22th February 2006	National Conference
4	Presented a paper entitled with Photocatalytic application of La-doped TiO <sub>2</sub>	A Regional conference Pune University College, Teachers, INNOVATION, organized by KTHM College, Nashik during 24-25 <sup>th</sup> November-2009	Regional conference
5	Presented a paper entitled with synthesis characterization sensing behavior of CeO <sub>2</sub> doped SnO <sub>2</sub>	State level seminar on Recent Trends in synthetic organic chemistry organized by Radhabai Kale Mahila Mahavidyalaya, Ahmednagar	State level conference
6	Presented a paper entitled with Photocatalytic activity and characterization of Cu doped TiO <sub>2</sub>	National Seminar on Recent Trends in Material Science, organized by New Arts, Comm. And Sci. College, Parner, Dist. Ahmednagar during 21-22 <sup>nd</sup> February 2010.	National Conference
7	Presented a paper entitled with Synthesis and characterization of Ag <sub>2</sub> O doped SnO <sub>2</sub>	National conference on Recent Advancement in Materials Science, organized by Dept. of Chemistry, Jagat, Arts, Comm. And Sci. College, Goregaon, Dist. Gondia, during 25 <sup>th</sup> February 2010.	National Conference

8	Presented a paper entitled with Synthesis of ceramic based functional inorganic materials.	National Seminar on Advances in material chemistry, organized by Department of Chemistry, Dr. BAM, University, Aurangabad, during 28-29 January 2011.	National seminar
9	Presented a paper entitled with Synthesis, characterization and Photocatalytic decomposition of methylene blue over Zn doped TiO <sub>2</sub>	National conference on Research in Chemical Science, organized by Dept. of Chemistry, Milliya Arts, Comm. And Sci. College, Beed during 1-2 <sup>nd</sup> February 2011.	National Conference
10	Presented a paper entitled with Synthesis and characterization of first transition element doped TiO <sub>2</sub>	National Conference on Sustainable Chemistry: Challenges and opportunities, organized by Dept of chemistry Dr. BAM, University, Aurangabad during 9-10 <sup>th</sup> January 2012.	National Conference
11	Presented a paper entitled with Photocatalytic degradation of phenol under solar radiation using C-doped TiO <sub>2</sub>	Upcoming Trends in Chemical Science, organized by Shri Anand College, Pathardi, Dist. Ahmednagar during 6-7 September-2013	National Conference
12	Presented a paper entitled with Solar Photocatalytic degradation of phenol using metal and non-metal doped TiO <sub>2</sub>	International conference on Global Opportunities for latest developments in chemistry and technology, organized by School of chemical Science, North Maharashtra University, Jalgaon during February-2014	International Conference <b>(Within country)</b>
13	Presented a paper entitled with Photocatalytic activity of some non-metal doped anatase TiO <sub>2</sub> nanomaterials towards <i>E.Coli</i> inactivation under simulated solar light irradiation.	International conference on 2nd International conference on Herbal and synthetic drug studies CHSDS-2014, Organized by Abeda Inamdar senior college of Arts, Science & Commerce, Pune during 10th to 12th February, 2014.	International Conference <b>(Within Country)</b>
14	Presented a paper entitled with Synthesis and characterization of functional inorganic materials	National conference on Research methodology in physical science, organized by Balbhim Arts, Science and Commerce College, Beed on 15 <sup>th</sup> & 16 <sup>th</sup> February-2014.	National Conference
15	Presented a paper entitled with ZrO <sub>2</sub> /CeO <sub>2</sub> nanocomposite: Two steps synthesis, microstructure and visible light Photocatalytic activity	National conference on Advanced Research Trends in Chemistry, ARTC-2014, organized by D.B.F. Dayanand College of Arts an Science, Solapur on 22-23 <sup>rd</sup> February-2014,	National Conference

16	Presented a paper entitled with Activation of fly ash for organic transformation reaction.	National conference on Interdisciplinary approaches in biochemical sciences, organized by Rashabai Kale Mahila Mahavidyalaya, Ahmednagar on 19-20 December 2014.	National Conference
17	Presented a paper entitled with Solar Photocatalytic degradation of methylene blue using Sb-doped TiO <sub>2</sub> nanoparticles.	National conference on Material advances for better future, on 16-17 January 2015, Jijamata College of Science and Arts, Bhende BK, Dist. Ahmednagar on 16-17 January 2015	National Conference
18	Presented a paper on Use of fly ash in chalcones synthesis.	National conference on Recent developments in Chemical Sciences (RDCS-2015) organized by Radhabai Kale Mahila Mahavidyalaya, Ahmednagar on 22 <sup>nd</sup> & 23 <sup>rd</sup> December 2015.	National Conference
19	Presented a paper entitled with Solar Photocatalytic degradation of organochlorine pesticides on doped TiO <sub>2</sub> nanoparticles	International conference on Chemistry Conference for young Scientists, ChemCYS-2016, organized by Antwerpen University, Blankenbergs, Belgium March-2016, Dept. of Chemistry,	International Conference [Abroad]
20	Presented a paper on synthesis characterization and Photocatalytic activity of B, C, S doped TiO <sub>2</sub>	A National seminar on Green Chemistry Education for a sustainable future of humanity organized by Arts Comm. And Sci. College, Satral. on 23-24 <sup>th</sup> December 2016.	National Seminar
21	Presented a paper entitled Solar Photocatalytic degradation of Pesticides using co-doped TiO <sub>2</sub> nanoparticles	A state level conference on Advanced Methods for Material Characterization, organized by Arts, Comm. & Science College, Ale. on 5-6 <sup>th</sup> January 2018.	State Conference

**E(iii): Invited Lectures and Chairmanships at National or International Conference/Seminars**

r. No.	Title of paper presented	Title of Conference/Seminar etc.	Date of Event	Organized by	Whether International/National/State level
1.	Resource person	Laser and Advanced Materials	May 29-30 2012	Dept. of Physics, Sant Gadge Baba Amravati University, Amravati	National
2.	Chaired session	Material Science and Technology	December 23-24 2014	Milliya Arts Science College, Beed	National
3.	Chaired session	Material advances for better future	January 16-17 2015	Jijamata College of Science and Arts Bhende, BK	National

4.	Resource person	Recent developments in material characterization and its impact on material research	20-21 <sup>st</sup> January 2017	Jijamata College of Science and Arts Bhende, BK	State
5.	Resource person	New Horizons in Material Science	22 <sup>nd</sup> -23 <sup>rd</sup> January 2018	New Arts, Commerce & Science College, Shevgaon, Dist. Ahmednagar	National
6.	Session chaired	Recent Trends in Chemical Sciences	21 <sup>st</sup> and 22 <sup>nd</sup> December 2017	Dadapatil Rajale Arts & Science College, Adinathnagar, Pathardi	National
7.	Resource person	Ph.D. course work	01/12/2018	New Arts, Commerce & Science College, Dist. Ahmednagar	Course work
8.	Resource person	Ph.D. course work	10 <sup>th</sup> Jan. 2022	DBF Dayanand College of Arts and Science, Solapur	
9.	Resource person	Advances in Physical & Chemical Research	10-11-2023	Sant Gadge Baba Amravati University, Amravati	National Conference

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