

Teacher Profile

Atul Bapurao Gawande

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Personal Information

- Name : **Dr. Atul Bapurao Gawande**
- Date of Birth : 31 July
- Nationality : Indian
- Present Position : Assistant Professor and Head of the Department
- Experience : 12 Years and 04 Months
- Marital Status : Married
- Areas of Research : **Luminescence, Phototherapy Phosphors, Material Science.**
- Vidwan ID : **346141**
- Orchid ID : **0000-0002-6515-4962**

Educational Details

Degree / Diploma	College /University	Year ofPassing
SET	Savitribai Phule Pune University	2018
Ph.D.	Sant Gadge Baba Amravati University	2015
M.Sc. (Physics)	Sant Gadge Baba Amravati University	2006
B.Sc. (Phy, Chem, Math)	Sant Gadge Baba Amravati University	2003

Thesis/dissertation/Project

Degree	Name of the Guide	Title
Ph.D.	Prof. (Dr.) R.P. Sonekar	Synthesis and Photoluminescence Study of UV Emitting Some Inorganic Borate Host Phosphors
P.G.	Prof.(Dr.) B.H. Pawar	Crystal Growth Study of KDP Crystal

Teaching Experience: (11 Years)

Organization	Duration	Designation	Total Experience
Maratha Vidya Prasarak Samaj Nashik	25/04/ 2016 to Till Date	Assistant Professor	06 Year 11 Months
G.S. Science College, Khamgaon, Buldhana	14/10/2014 to 20/04/2016	Assistant Professor	01 Year 04 Months
Post Graduate Department of Physics, Sant Gadge Baba Amravati University	25/07/2012 to 15/04/2013 & 25/07/2013 to 15/04/2014	Assistant Professor	1 Year 6 Months
Kamptee Polytechnic, Kamptee, Nagpur	12/11/2010 to 21/05/2011	Lecturer	6 Months
R.S. Arts, Commerce & Science College, Anjangaon Surji, Amravati	01/08/2008 to 30/03/2010	Assistant Professor	2 Years

Technical Skills:

Modeling and Analysis	X-Ray Diffractometer and Spectrofluorometer Instrument Handling
Software's/ Programming	Powder XRD Software, Spectrofluorometer Software, Origin Software

Research Paper Publications (Total: 34)

SN	Title	Authors	Journal Name	Published by & Country	Month & Year	Vol. no. & Page	Impact Factor	ISBN / ISSN
1	Green Synthesis and Characterization of CDS Quantum Dots Mediated by Aegle Marmelos Leaves	M.D.Dhiware, T.R. Deore, S.B. Nahire, A.B. Gawande	International Journal of Scientific Research in Science and Technology	IJSRST, India	April 2022	Volumen 09, Pages 26-29	--	ISSN: 2395-6011
2	Hydrothermal Synthesis and Luminescence Properties of Dy ³⁺ Doped SrMoO ₄ Nano-Phosphor	AB Chavan, AB Gawande , VB Gaikwad, GH Jain, MK Deore,	Journal of Luminescence	Elsevier Publications, Poland	June 2021	Volume 234, Pages 117996	3.599	ISSN: 0022-2313
3	Combustion synthesis & energy transfer mechanism of Bi ³⁺ to Gd ³⁺ in YCaBO ₄ phosphor	J.A. Waje, P.A. Dandle, A.B. Gawande	Journal of Biological & Chemical Chronicles	E-Research Co. India	January 2019	Volume 5, Pages 88-90	Still Computing	ISSN 2454-7476
4	Study of oxygen to boron ratio effect on luminescence properties of Pb ²⁺ doped borate host phosphors	A.B. Gawande R.P. Sonekar, S.K. Omanwar	International Journal of Research & Analytical Reviews	IJRAR, India	January 2019	Volume 6, Pages 144-147	Still Computing	ISSN: 2348-1269

5	Combustion synthesised UV emitting phosphors: $\text{YBO}_3\text{:Pr}^{3+}$ & $(\text{Y}_{0.89}\text{La}_{0.1})\text{BO}_3\text{:Pr}^{3+}$	A.B. Gawande R.P. Sonekar, S.K. Omanwar	International Journal of Chemical & Physical Sciences	IJCPS, India	March 2018	Volume 7, Pages 488-493	UIF 1.0289	ISSN: 2319-6602
6	Synthesis and photoluminescence study of UVB emitting phosphor $(\text{LaY})\text{BaB}_9\text{O}_{16}\text{:Bi}^{3+}, \text{Gd}^{3+}$	A.B. Gawande R.P. Sonekar, S.K. Omanwar	International Journal of Current Engineering & Scientific Research	Technical Research Organization India	2018	Volume 5, Pages 176-179	Still Computing	ISSN: 2393-8374
7	A Novel Gd^{3+} - Pb^{2+} Doped LiSrPO_4 Phosphor for Phototherapy Lamp Applications	A.O. Chauhan, A.B. Gawande S.K. Omanwar	Journal of Inorganic and Organometallic Polymers and Materials	Springer, United States	Sept. 2016	Volume 26, Pages 1023–1027	3.543	ISSN 1574-1451
8	Narrow band UVB emitting phosphor $\text{LaPO}_4\text{:Gd}^{3+}$ for phototherapy lamp	A.O. Chauhan, A.B. Gawande S.K. Omanwar	Optik - International Journal for Light and Electron Optics	Elsevier Publications, Poland	Aug. 2016	Volume 127, Pages 6647-6652	2.84	ISSN 0030-4026
9	Combustion Synthesis of Narrow Band UVB Emitting Borate Phosphors $\text{LaB}_3\text{O}_6\text{:Bi,Gd}$, & $\text{YBaB}_9\text{O}_{16}\text{:Bi,Gd}$ for Phototherapy Applications	A.B. Gawande R.P. Sonekar, S.K. Omanwar	Optik - International Journal for Light and Electron Optics	Elsevier Publications, Poland	April 2016	Volume 127, Pages 3925–3927	2.84	ISSN 0030-4026
10	Fluorescence properties of Tb^{3+} and Sm^{3+} activated novel $\text{LiAl}_7\text{B}_4\text{O}_{17}$ host via solution combustion synthesis	R.S. Palaspagar, A.B. Gawande R.P. Sonekar, S.K. Omanwar	Materials Research Bulletin	Elsevier Publications, Poland	Dec. 2015	Volume 72, Pages 215–219	5.60	ISSN: 0025-5408
11	$\text{Eu}^{3+} \rightarrow \text{Eu}^{2+}$ reduction in $\text{BaAl}_2\text{B}_2\text{O}_7$ phosphor in oxidizing environment	R.S. Palaspagar, A.B. Gawande R.P. Sonekar, S.K. Omanwar	Optik - International Journal for Light and Electron Optics	Elsevier Publications, Poland	Dec. 2015	Volume 126, Pages 5030–5032	2.84	ISSN: 0030-4026
12	Synthesis and luminescent properties of Tb^{3+} activated novel magnesium alumino-borate phosphor	R.S. Palaspagar, A.B. Gawande R.P. Sonekar, S.K. Omanwar	Journal of the Chinese Advanced Materials Society	Taylor & Francis Publications	April 2015	Volume 3, 2015, Pages 170-176	Still Computing	ISSN 2224-3682
13	Synthesis and Photoluminescence Properties of $\text{CaB}_4\text{O}_7\text{:Pb}^{2+}$	N.M. Deshpande A.B. Gawande R.S. Palaspagar	IORD Journal of Science & Technology	IORD	Mar-Apr 2015	Volume 2 Pages 11-13	—	E-ISSN: 2348-0831
14	Photoluminescence Study of a Novel UV Emitting Phosphor $\text{Sr}_2\text{Mg}(\text{BO}_3)_2\text{:Pb}^{2+}, \text{Gd}^{3+}$	S.P. Bhagat, A.B. Gawande S.K. Omanwar	Optical Materials	Elsevier Publications, Poland	Feb. 2015	Volume 40, Pages 36-40	3.754	ISSN: 0925-3467

15	Preparation and photoluminescence properties of $\text{CaAl}_2\text{B}_2\text{O}_7:\text{Sm}^{3+}$ phosphor	R.S.Palaspagar A.B.Gawande R.P. Sonekar, S.K. Omanwar	Int. Journal of Luminescence and Applications (IJLA)	Luminescence Society of India, Bangalore	Feb. 2015	Volume 5, Pages 69-72	-----	ISSN: 2277-6362
16	Luminescence improvement in Pr^{3+} and Gd^{3+} activated $\text{Sr}_2\text{Mg}(\text{BO}_3)_2$ inorganic phosphor	A.B. Gawande R.P. Sonekar, S.K.Omanwar	Materials Research Bulletin	Elsevier Publications, Poland	Dec. 2014	Volume 60, Pages e285–e291	5.60	ISSN: 0025-5408
17	Photoluminescence Properties of Combustion Synthesized $\text{BaB}_2\text{O}_4:\text{Pb}^{2+}$ Phosphor	A.B. Gawande R.P. Sonekar, S.K. Omanwar	Combustion Science and Technology	Taylor & Francis Publications	Dec. 2014	Volume 186, Pages 1928-1935	2.174	ISSN: 1563-521X (Online)
18	Combustion synthesis and photoluminescence properties of a novel Eu^{3+} doped lithium alumino-borate phosphor	R.S. Palaspagar A.B. Gawande R.P. Sonekar S.K.Omanwar	Journal of Luminescence	Elsevier Publications, Poland	Oct. 2014	Volume 154, Pages 58–61	4.171	ISSN: 0022-2313
19	Photoluminescence Properties of Eu^{2+} in BaB_2O_4	A.B. Gawande , R.P. Sonekar, S.K.Omanwar	Chemical Physics	Elixir Publishers	Oct. 2014	Volume 75 Pages 27993-27995	PIF 6.865	ISSN: 2229-712X
20	Combustion Synthesis and Energy Transfer Mechanism of $\text{Bi}^{3+} \rightarrow \text{Gd}^{3+}$ and $\text{Pr}^{3+} \rightarrow \text{Gd}^{3+}$ in YBO_3	A.B. Gawande , R.P. Sonekar, S.K. Omanwar	Combustion Science and Technology	Taylor & Francis Publications	June 2014	Volume 186, Pages 785-791	2.174	ISSN: 0010-2202 (Print),
21	Synthesis and PL Study of UV Emitting Phosphor $\text{KCa}_4(\text{BO}_3)_3:\text{Pb}^{2+}$	A.B. Gawande , R.P. Sonekar, S.K. Omanwar	Journal of Luminescence	Elsevier Publications, Poland	May 2014	Volume 149, Pages 200–203	4.171	ISSN: 0022-2313
22	Photoluminescence in Pb^{2+} Activated SrB_4O_7 & SrB_2O_4 Phosphors	A.B. Gawande J.T. Ingle, R.P. Sonekar, S.K.Omanwar	Journal of Luminescence	Elsevier Publications, Poland	May 2014	Volume 149, Pages 236–239	4.171	ISSN: 0022-2313
23	Eu^{3+} Emission in Aluminum Borate Based Phosphor, $\text{CaAl}_2\text{B}_2\text{O}_7$	R.S.Palaspagar A.B.Gawande R.P. Sonekar, S.K. Omanwar	Int. Journal of Chemical and Physical Sciences	IJCPS journal	April 2014	Volume 3, Pages 91-95	UIF 1.028 ⁹	ISSN: 2319-6602

24	Synthesis and enhancement of luminescence intensity by co-doping of M^{+} ($M = Li, Na, K$) in Ce^{3+} doped strontium haloborate	A.B. Gawande R.P. Sonekar, S.K.Omanwar	Optical Materials	Elsevier Publications, Poland	March 2014	Volume 36, Pages 1143–1145	3.754	ISSN: 0925-3467
25	Combustion synthesis and optical properties of Oxy-borate phosphors $YCa_4O(BO_3)_3:RE^{3+}$ ($RE = Eu^{3+}, Tb^{3+}$) under UV, VUV excitation	J.T. Ingle, A.B. Gawande R.P. Sonekar, S.K.Omanwar Yuhua Wang, Lei Zhao	Journal of Alloys and Compounds	Elsevier Publications, Poland	March 2014	Volume 585, Pages 633-636	6.371	ISSN: 0925-8388
26	Synthesis and Photoluminescence Study of Bi^{3+} & Pb^{2+} activated $Ca_3(BO_3)_2$	A.B.Gawande , R.P.Sonekar, S.K.Omanwar	International Journal of Optics	Hindawi Publishing Corporation	Feb. 2014	http://dx.doi.org/10.1155/2014/418459	1.072	ISSN: 1687-9384
27	Combustion Synthesis and Photoluminescence Properties in $Ba_2Mg(BO_3)_2:Pb^{2+}$	S.P. Hargunani, A.B. Gawande R.P. Sonekar, S.K. Omanwar	International Journal of Basic and Applied Research	IJBAR	Jan 2014	pp 12-15	-----	ISSN 2249-3352
28	Combustion Synthesis and Photoluminescence Properties of Pb^{2+} activated $Sr_2Mg(BO_3)_2$	Y.P. Manwar, A.B. Gawande R.P. Sonekar, S.K. Omanwar	International Journal of Basic and Applied Research	IJBAR	Jan 2014	pp 114-117	-----	ISSN 2249-3352
29	Synthesis of NB UVB Phototherapy Phosphor $LaB_5O_9: Pr-Gd$	A.B. Gawande R. P. Sonekar, J. T. Ingle, R.S.Palaspagar S. K. Omanwar	International Journal of Basic and Applied Research	IJBAR	Jan 2014	Special issue pp 39-41	-----	ISSN 2249-3352
30	Photoluminescence studies of some aluminoborate phosphors	R.S.Palaspagar A.B.Gawande R.P. Sonekar, S.K. Omanwar	International Journal of Basic and Applied Research	IJBAR	Jan 2014	Special issue pp 200-203	-----	ISSN 2249-3352
31	Synthesis & photoluminescence study of UV emitting borate phosphor $Ca_3B_2O_6: Pb$	A.B. Gawande R.P. Sonekar, S.K. Omanwar	AIP Conference Proceeding	AIP	Feb. 2013	Volume 1536, Page 601-603	0.40	ISSN 0094-243X
32	Synthesis and photoluminescence of inorganic borate host red emitting VUV phosphor $YCaBO_4:Eu^{3+}$	J.T. Ingle, A.B. Gawande R.P. Sonekar, P.A. Nagpure, S.K.Omanwar	AIP Conference Proceeding	AIP	Feb. 2013	Volume 1536, Page 895-896	0.40	ISSN 0094-243X
33	Photoluminescence of a Green Emitting Phosphor $LiCaBO_3: Tb^{3+}$	A.B.Gawande , R. P. Sonekar, J.T. Ingle, S. K.Omanwar,	International Journal of Knowledge Engineering	Bioinfo Publication	2012	Volume 3, Page 53-54	ICV: 7.04	ISSN 0976-5816

34	Synthesis and Photoluminescence of Inorganic Borate Host Red Phosphors $\text{Na}_3\text{Y}(\text{BO}_3)_2\text{:Eu}^{3+}$ and $\text{YCaBO}_4\text{:Eu}^{3+}$	A.B.Gawande R.P. Sonekar, S.K.Omanwar, S. V. Mohril	Bionano Frontier	Bioinfo Publications	2012	Vol. 5, pp 243–245	-----	ISSN: 2320-9593
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Research Papers presented in International/National Conferences (Total: 13)

S N	Title	Authors	Title of the Event	Organized by & Place of the event	Date and duration	Full-Text Preceding Vol. Page No.s	ISBN/ ISSN
1	Synthesis and Luminscent Properties of Tb^{3+} Activated Novel Magnesium Alumino-Borate Phosphor	R. P. Sonekar, A. B. Gawande , S. K.Omanwar	National Conference On Novel Synthesis of Advanced Materials & Their Applications	Arts Commerce and Science College, Maregaon	Feb. 16, 2015	pp 166-170	ISBN 978-81-930894-1-5
2	Synthesis and Photoluminescence Study of Ce^{3+} Doped BaB_2O_4 Phosphor	S. P. Bhagat, K. D. Potdar, K. A. Koperkar, A. B. Gawande , S. K. Omanwar	National Conference on Recent Trends in Mathematics, Physics and their Applications	S. K. Arts, Science & Commerce College Akola,	March 19, 2014	pp 104-106	ISBN 978-81-929160-2-16
3	Preparation and photoluminescence properties of $\text{CaAl}_2\text{B}_2\text{O}_7\text{:Sm}^{3+}$ phosphor	R.S. Palaspagar, A.B. Gawande , R.P. Sonekar, S.K. Omanwar	5 Th International conference on Luminescence and its Applications	PES University Bangalore	09-12 Feb. 2015	Proceedin g, pp 120	ISBN 978-93-82570-48-6
4	Synthesis and photoluminescence study of red phosphor $\text{SrZn}_2(\text{PO}_4)_2\text{:Eu}^{3+}$	S.P. Bhagat, A.B. Gawande , R.P. Sonekar, S.K. Omanwar	5 Th International conference on Luminescence and its Applications	PES University Bangalore	09-12 Feb. 2015	Proceedin g, pp 208	ISBN 978-93-82570-48-6
5	Charge compensation in Bi^{3+} doped strontium magnetium borate.	A.B. Gawande , R.P. Sonekar, S.K. Omanwar	5 Th Interntional conference on Luminescence and its Applications	PES University Bangalore	09-12 Feb. 2015	Proceedin g, pp 187	ISBN 978-93-82570-48-6
6	Combustion synthesis and photoluminescence characteristics of $\text{Sr}_2\text{Mg}(\text{BO}_3)_2\text{:Eu}^{3+}$	Y.P. Manwar, R.S. Palaspagar, A.B. Gawande , R.P. Sonekar, S.K. Omanwar	5 Th Interntional conference on Luminescence and its Applications	PES University Bangalore	09-12 Feb. 2015	Proceedin g, pp 154	ISBN 978-93-82570-48-6
7	Synthesis and Photoluminescence Study of Ce^{3+} doped Strontium Borate	A.B. Gawande , R.P. Sonekar, S.K. Omanwar	National Conference on Advanced Material,	Nabira Mahavidyala ya, Katol, Dist-Nagpur	March 1, 2014	pp 21-23	ISBN 9789381432709
8	Combustion Synthesis of a Novel Lithium Aluminium Borate Phosphor $\text{Li}_2\text{AlBO}_4\text{:Eu}^{3+}$	R. P. Sonekar, A. B. Gawande , J. T. Ingle, S. K.Omanwar	National Seminar on Technological Innovations with Environmental Integrity	H.V.P. Mandal's College of Engg. & Tech. Amravati	28 Feb. 2012	pp 195-197	ISBN 978-81-922256-5-4

9	Photoluminescence of Eu^{3+} doped rare earth borate host phosphor	R. P. Sonekar, A. B. Gawande , J. T. Ingle, S. K. Omanwar	National Seminar on Technological Innovations with Environmental Integrity	H.V.P. Mandal's College of Engg. & Tech. Amravati	28 Feb. 2012	pp 197-200	ISBN 978-81-922256-5-4
10	Synthesis and Phtoluminescence Studies of a Novel Lithium Aluminium Borate Phosphors $\text{Li}_3\text{AlB}_2\text{O}_6:\text{Eu}^{3+}$	A. B. Gawande , R. P. Sonekar, S. K. Omanwar	National Conference on Lasers & Advanced Materials	Departments of physics, S. G. B. Amravati University Amravati.	29 – 30 May 2012	pp 109-110	ISBN 978-81-922256-6-1
11	Photoluminescence of A Novel Red Phosphor $\text{LiCaBO}_3:\text{Eu}^{3+}$	R. P. Sonekar, A.B.Gawande , J. T. Ingle, S. K. Omanwar, S. V. Moharil	National Conference on Advanced Materials in Industries	Ismail Yusuf A C& Science College, Mumbai.	10-11 Feb 2012	pp 67-69	ISBN 978-81-920431-1-1
12	Combustion synthesis of a novel green phosphor $\text{LaBaB}_9\text{O}_{16}:\text{Ce, Gd, Tb}$	R. P. Sonekar, J. T. Ingle, A.B. Gawande , S. K. Omanwar, S. V. Moharil	National Conference on Advanced Materials in Industries	Ismail Yusuf Arts Science and Commerce College, Mumbai.	10-11 Feb 2012	pp 141-143	ISBN 978-81-920431-1-1
13	Preparation and luminescent properties of Eu^{3+} activated $\text{BaAl}_2\text{B}_4\text{O}_{10}$ phosphor	R.S. Palaspagar A.B. Gawande R.P. Sonekar, S.K. Omanwar	National Conference on Novel Synthesis of Advanced Materials	Dhote Bandhu Science College, Gondia.	Dec. 20 th 2014	pp 58-61	ISBN 978-93-82962-51-9

International/National Events Attended (Conferences, Seminar, Symposia, etc): (13)

Sr. No.	Title of the Event	Event Type	Event Type	Organized by & Place of the event	Date and duration
1	National Conference on Luminescence & its Applications	Conference	National	Department of Science & Humanities, PES Institute of Technology, Bengluru	Jnauary 8 to 10, 2013
2	International Conference on Recent Trends in Applied Physics & Material Science	Conference	International	Govt. College of Engineering & Technology, Bikaner, Rajasthan	February, 01 to 02, 2013
3	National Seminar On Nanomaterials: Synthesis & Applications	Seminar	National	Dept. of Physics, Govt. Autonomous Post Graduate College, Chhindwara, MP	Marce 04 to 06, 2013
4	National Conference on Recent Trends in Mathematics, Physics & their Applications	Conference	National	Shankarlal Khandelwal Arts, Commerce & Science College, Akola, Maharashtra	March 19, 2014
5	5 th International Conference on Luminescence & its Application	Conference	International	PES University, Bengluru	February, 09 to 12, 2015
6	Natioanal Conference on Novel Synthesis of Advanced Materials & Their Applications	Conference	National	Arts, Commerce & Science College, Maregaon, Yavatmal, MS	February 16, 2015
7	National Seminar on Science for National Development	Seminar	National	Dept of Applied Physics, Visvesvaraya National Institute of Technology, Nagpur, MS	March 14 to 15, 2015
8	1 st National Teachers' Congress	Workshop	National	MIT Group of Institutions, Pune	September 23 to 25, 2016

9	International Conference on Pure & Applied Sciences	Conference	International	Maharaja Sayajirao Gaikwad Arts, Science & Commerce College, Malegaon Camp, Nashik, MS	December 12 to 14, 2016
10	Two Days State Level Workshop on The Need of Soft Skill & Life Skills	Workshop	State Level	MVPS Commerce, Management & Computer Science College, Nashik, MS	December 01 to 02, 2017
11	Material Science: New Trends & Applications	Seminar	State Level	KSKW Arts, Commerce & Science College, Nashik	December 29 to 30, 2017
12	International Conference on Advances in Functional Materials	Conference	International	KRT Arts, BH Commerce & AM Science College Nashik, MS	January, 12 to 13, 2018
13	National Symposium on Innovative Materials & Devices	Symposium	National	Dept of Physics, SGB Amravati University, Amravati, MS	June 24 to 25, 2019

Research Guide (Ph.D/M.PHIL/PG) in descending order

Sr. No.	Title of Project/Dissertation Thesis	Name of student	University	Ph.D/ M.Phil/PG	Month/Year of award
1	Comparative study and synthesis of Graphene Oxide and its reducing form with composites for radiation shielding material	Mrs. S. A. Hugade	Savitribai Phule Pune University, Pune	Ph.D.	Working
2	Antioxidant activity of biosynthesized of CeO ₂ nanoparticles mediated by <i>Aegle marmelos</i> leaves	Hemlata Pillai	Savitribai Phule Pune University	PG	Sept. 2022
3	Luminiscent properties of Gd ³⁺ ions in CaB ₆ O ₁₀ Phosphor	Manasi S. Malpure	Savitribai Phule Pune University	PG	Sept. 2022
4	Luminiscent properties of Pr ³⁺ ions in CaB ₆ O ₁₀ Phosphor	Manali Lokhande	Savitribai Phule Pune University	PG	Sept. 2022
5	Energy Saver Street Light	Manasi N. Patil	Savitribai Phule Pune University	PG	Sept. 2022
6	Antioxidant activity of biosynthesized of CeFe ₂ O ₄ nanoparticles mediated by <i>Aegle marmelos</i> leaves	Nishika Nisal	Savitribai Phule Pune University	PG	Sept. 2022
7	CuO nanoparticles mediated by Coffee powder extract: An Impeder of <i>Candida albicans</i> biofilm	Prafull G. Jadhav	Savitribai Phule Pune University	PG	Sept. 2022
8	Green Synthesis and Characterization of NiO nanoparticles mediated by <i>Calotropis Gigantea</i> extract	Reshma S. Kadale	Savitribai Phule Pune University	PG	Sept. 2022
9	Synthesis of SnO ₂ nanoparticles by <i>Aegle Marmelos</i> extract : a green approach	Sohan D. Hajare	Savitribai Phule Pune University	PG	Sept. 2022
10	Synthesis and Characterization of AgNO ₃ nanoparticles mediated by <i>Brosimum Alicastrum</i> extract	Tejal N. Barhe	Savitribai Phule Pune University	PG	Sept. 2022

11	Antibacterial activity of CdS quantum dots mediated by <i>Aegle marmelos</i> leaves	Tushar R. Deore	Savitribai Phule Pune University	PG	Sept. 2022
12	Green Synthesis and Characterization of Copper oxide (CuO) nanoparticles mediated by <i>Eleusine coracana</i> powder	Purnima P. Pawar	Savitribai Phule Pune University	PG	Sept. 2022
13	Synthesis and Characterization of NiO nanoparticles mediated by <i>Aegle marmelos</i> extract	Nikita N. Lachake	Savitribai Phule Pune University	PG	Sept. 2022
14	Green Synthesis and Characterization of SnO ₂ nanoparticles mediated by <i>Eleusine Coracana</i> powder	Shital T. Shelke	Savitribai Phule Pune University	PG	Sept. 2022
15	Green Synthesis of CeO ₂ Nano particles by Allium Cepa Extract for Antibacterial activity	Samruddhi Bagade	Savitribai Phule Pune University	PG	Sept. 2022

Books/Book Chapters Publications

Sr. No.	Title of Book/Chapter	Year of publication	Title of Book	Pages	Place of Publication	ISBN/ISSN
1.	M.Sc. [Physics]	2023	Condensed Matter Physics	305	YCMOU Nashik	
2.	Introduction to Borate Phosphors	2022	Borate Phosphors	25	CRC Press Taylor & Francis group England	9781003207757
3.	M.Sc. [Physics]	2022	Atomic & Molecular Physics	239	YCMOU Nashik	978-93-95855-95-2

Patent Publications

Sr. No.	Title of the Patent	Date of publication	Patent Publication No.
1	The method of determination of influence of Fe doping on properties of chemically grown CdS thin films	29/06/2022	2022/03819 Republic of South Africa

Refresher/Orientation/FDP/Trainings

Sr N.	Name of Refresher/ Orientation/ FDP/ Trainings Programme attended	Organizing Institute	Period	Grade Or Completed
1	Orientation Programme	HRDC Sant Gadge Baba Amravati University	02/07/2018 to 31/07/2018	A Grade
2	Refresher programme in Environmental Sciences (Physics)	HRDC Savitribai Phule Pune University, Pune	09/12/2019 to 22/12/2019	B Grade
3	Faculty Development Programme on Material Science: Synthesis and Characterization	Shri Vaishnav Vidyapith Vishwavidyalaya, Indore	11/05/2020 to 15/05/2020	Completed
4	Faculty Development Programme on Earth and Environment Responses During Covid-19 (Physics)	HRDC Savitribai Phule Pune University, Pune	11/07/2020 to 17/07/2020	Completed
5	Faculty Development Programme on Building Startup and Innovation Centres (Physics)	HRDC Savitribai Phule Pune University, Pune	26/10/2020 to 30/10/2020	Completed
6	Refresher Programme in Physics	Teaching Learning Center, Ramanujan Colg, University of Delhi	27/02/2023 to 13/02/2023	A Grade

Seminar /Conference/ STTP Attended

Sr. No.	Title of the Event	Event Type	Event Type	Organized by & Place of the event	Date and duration
1	National Conference on Luminescence & its Applications	Conference	National	Department of Science & Humanities, PES Institute of Technology, Bengluru	January 8 to 10, 2013
2	International Conference on Recent Trends in Applied Physics & Material Science	Conference	International	Govt. College of Engineering & Technology, Bikaner, Rajasthan	February, 01 to 02, 2013
3	National Seminar On Nanomaterials: Synthesis & Applications	Seminar	National	Dept. of Physics, Govt. Autonomous Post Graduate College, Chhindwara, MP	Marce 04 to 06, 2013
4	National Conference on Recent Trends in Mathematics, Physics & their Applications	Conference	National	Shankarlal Khandelwal Arts, Commerce & Science College, Akola, Maharashtra	March 19, 2014
5	5 th International Conference on Luminescence & its Application	Conference	International	PES University, Bengluru	February, 09 to 12, 2015
6	Natioanal Conference on Novel Synthesis of Advanced Materials & Their Applications	Conference	National	Arts, Commerce & Science College, Maregaon, Yavatmal, MS	February 16, 2015
7	National Seminar on Science for National Development	Seminar	National	Dept of Applied Physics, Visvesvaraya National Institute of Technology, Nagpur, MS	March 14 to 15, 2015
8	1 st National Teachers' Congress	Workshop	National	MIT Group of Institutions, Pune	September 23 to 25, 2016
9	International Conference on Pure & Applied Sciences	Conference	International	Maharaja Sayajirao Gaikwad Arts, Science & Commerce College, Malegaon Camp, Nashik, MS	December 12 to 14, 2016
10	Two Days State Level Workshop on The Need of Soft Skill & Life Skills	Workshop	State Level	MVPS Commerce, Management & Computer Science College, Nashik,	December 01 to 02, 2017
11	Material Science: New Trends & Applications	Seminar	State Level	KSKW Arts, Commerce & Science College, Nashik, MS	December 29 to 30, 2017
12	International Conference on Advances in Functional Materials	Conference	International	KRT Arts, BH Commerce & AM Science College Nashik, MS	January, 12 to 13, 2018
13	National Symposium on Innovative Materials & Devices	Symposium	National	Dept of Physics, SGB Amravati University, Amravati, MS	June 24 to 25, 2019

Membership of Professional Institutions

- ❖ **Editor**, Global Science Journal of Pure and Applied chemistry and Physics
URL: [http:// www.globalscholarsjournals.org/PS/GSJPAS/editors.php](http://www.globalscholarsjournals.org/PS/GSJPAS/editors.php)
- ❖ **Editor**, International Journal of Physics and Mathematical Sciences (JPMS)
URL: <http://www.cibtech.org/Editorial-Board-JMPS.htm>
- ❖ **Associate Editor**, World Research Journal of Applied Physics
URL: <http://bioinfopublication.org/journal.php?opt=azjou&jouid=BPJ0000280&detail=editorial>

Role in Curriculum/administrative Activity (College level committee)

1. Working as Head of Department of Physics & Electronics at K.S.K.W. Arts, Science and Commerce College, Cidco, Nashik.
2. Working as NAAC Committee member as Criterion-I Co-ordinator
3. Worked as Student Development Officer for three years at G.M.D. Arts, Science and Commerce College, Sinnar, Nashik.
4. Worked as as Head of Department of Physics and Science Faculty In-charge at Arts, Commerce and Science College, Tryambakeshwar, Nashik.

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

Date: 10/08/2023



Dr. A.B. Gawande