

Individual Profile

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Refresher FDPs etc.**
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Individual Profile

Sr. No.	Particulars	Details
1	Name (in BLOCK letters)	GAIKWAD SANJAY LAXMANRAO
2.	Father's Name/Mother's Name	GAIKWAD LAXMANRAO ANNERAO
3.	Department/Subject applied for	PHYSICS
4.	Current Designation Pay Band & Grade Pay	Designation: Assistant Professor
5.	Date of last promotion	20/08/2021
6.	Which position and grade pay are you an applicant under CAS?	Assistant Professor in Stage 3 to Stage 4 (AL13 A)
7.	Date of eligibility for promotion	20/08/2024
8.	Date and Place of Birth	01/07/1983
9.	Sex	Male
10.	Marital Status	Married
11.	Nationality	Indian
12.	Indicate whether belongs in SC/ST/OBC category	SC (Boudha)
13.	Address for correspondence (with pin code)	Raj Residency, C-!04, Plot no-11, Sector-2 Karanjade, Panvel dist. Raigad 410206
14.	Permanent Address (with pin code)	Shastri Nagar, balak Mandir, Purna, Taluka Purna Dist. Parbhani 431511
14(a).	Telephone No.	Mobile No.: 09970821304 08087837804
14(b).	Email	84sanjaygaikwad@gmail.com

1. Educational qualification

(Academic Qualifications (Matric till post-graduation))

Examinations	Name of the Board/ University	Year of Passing	Percentage of marks obtained	Division/ Class/ Grade	Subject
High School/Matric/S.S.C.	Aurangabad	2000	64.	I	Hindi, Marathi Maths. Sci. hist. Geo. Civics,
Intermediate / (10+2)	Aurangabad	2003	66	I	Physics. Chemistry. Maths. Biology
B.Sc.	S.R.T.M. Uni. Nanded	2006	73	I with distinction	Physics. Maths. And Statistics.
B.Sc. III	S.R.T.M. Uni. Nanded	2006	81	I with distinction	Physics. Maths. And Statistics.
M.Sc.	S.R.T.M. Uni. Nanded	2008	69.58 (CGPA 7.56 with B+)	I	Physics.
NET	CSIR, Delhi	2009	Qualified		Physics.
PET	S.R.T.M. Uni. Nanded	2010	Qualified		Physics.
GATE	IIT	Feb. 2014	Qualified		Physics.
SET	Pune Uni.	Jan. 2016	Qualified		Physics.
Course work of Ph.D.	S.R.T.M.U. Nanded.	2011	PASS	A Grade (CGPA 8.2)	Research Methodology and I.T.
MSCIT	MKCL, Maharashtra	2005	83		

Designation	Institution	Period of service
Assistant Professor	Rajarshri Shahu Mahavidyalaya, Latur. Maharashtra	2008-2010
Assistant Professor	Mahatma Phule A.S.C. College, Panvel Dist. Raigad Maharashtra	2010-2020
Head (Dept. of Physics) (Assistant Professor)	Mahatma Phule A.S.C. College, Panvel Dist. Raigad Maharashtra	2020- till Date

+ Research contribution

a. Paper publications

b. Research projects

c. Paper presentations

d. Invited talks

e. Chapters in Book

f. Editor of Book

g. Oral or Poster Presentation

h. OC/RC/FDP/STC attended

i. Conferences Organised

j. Conferences attended

k. List of PPT and video created

Research contribution

➤ **Paper publications**

Summary:

2010-2017

Sr. No.	No of papers Published: 10
1	National 01 International: 08 State level :01

2017-2021 (09)

Sr. No.	Paper Published	Numbers
1.	National Publication	01
2.	International Publication	01
3.	UGC Listed	07
4.	Peer-Reviewed Journals	02

2021-2024

Sr. No.	Paper Published	Numbers
1.	National Publication	
2.	International Publication	01
3.	UGC Listed	01
4.	Peer-Reviewed Journals	

Chapters in Book: 03

Editor of Book: 03

Sr. No.	Nature of publication (Book Review / Research Paper etc.)	List of author/s as it appears in the publication	Name of the Book & the publishers / Journal, Issue no. and year of publication, page nos.	Year Of Publications	ISSN / ISBN number	Impact factor (in case of journal)
1	International Research Paper	VijayanandKalamse, <u>Sanjay Gaikwad</u> and Ajay Chaudhari*	Bulletin of Materials Science 33 (3),233-238	2010	ISSN: 0250-4707 (print version) ISSN: 0973-7669 (electronic version) Journal no. 12034	1.0
2	International Research Paper	Rajendra S. Gaikwad Sambhaji S. Bhande Rajaram S. Mane Bhagwat N. Pawar <u>Sanjay L. Gaikwad</u> , Sung-Hwan Han Oh-Shim Joo	Materials Research Bulletin 47 (12),4257-4262	2012	ISSN: 0025-5408	2.42
3	National Research Paper	Vijay kumar S. Jadhav, Sambhaji S. Bhande, Manohar K. Zate <u>Sanjay L. Gaikwad</u> , Rajaram S. Mane, Sung-Hwan Han	SRTMU's Research Journal of Science 1,(2), 30-37	2012	ISSN 2277-8594	0.3
4	International Research Paper	Bhande, Sambhaji S.; <u>Gaikwad, Sanjay L.;</u> Pawar, Bharat G.; Shaikh, Arif. V. Kolekar, Sanjay S.; Joo, Oh-Shim; Mane, Rajaram S.; Han, Sung-Hwang	International Journal of Nanoengineering and Nano Manufacturing 3 (3), 237-242	2013	ISSN 2157-9326	--
5	International Research Paper	K. K. Tehare, M. K. Zate, S. S. Bhande, S. A. Patil, <u>S. L. Gaikwad</u> , S. Y. joon, R. S. Mane and S. H. Han,	Journal of Materials Chemistry A 2 (2), 478-483	2014	ISSN. 0959-9428	8.262
6	International Research Paper	Vijaykumar S. Jadhav, Sambhaji S. Bhande, Kailas K. Tehare , <u>Sanjay L. Gaikwad</u> , Rajaram S. Mane,	The International Journal of Engineering And Sciences (IJES) Vol. (3) Issue (10) Pages (30-34)	2015	ISSN (e) 2319-1813 ISSN(p) 2319-1805	--

Sr. No.	Nature of publication (Book Review / Research Paper etc.)	List of author/s as it appears in the publication	Name of the Book & the publishers / Journal, Issue no. and year of publication, page nos.	Year Of Publications	ISSN / ISBN number	Impact factor (in case of journal)
7	International Research Paper	Kailas K.Tehare, M. K. Zate, S.T. Navale S. S. Bhande, S. L. Gaikwad , S. A. Patil, SK. Gore, Mu. Naushad , S.M. Alfadul, R. S. Mane	Arabian Journal of Chemistry	2016	ISSN 1878-5352	3.725
8	International Research Paper	Paresh S Gaikar, Sanjay L Gaikwad , Rohit K Mahadule, Gautam C Wakde, Ankita P Angre, Amit S Bandekar, Purushottam R Arjunwadkar	Journal of Nanoengineering and Nanomanufacturing 6 (2), 157-160	2016	ISSN 2157-9326	
9	International Research Paper	PS Gaikar, ST Navale, SL Gaikwad , Ahmed Al-Osta, VV Jadhav, PR Arjunwadkar, Mu Naushad, Rajaram S Mane	Dalton Trans., 2017,46, 3393-3399	2017	ISSN 1477-9226	4.177

✚ Research contribution

➤ Paper publications

Sr.No.	Title of Research Article	Name of Journal	Year	Volume No.	Page No.	Impact Factor	Citations
1)	Effect of a deposition container on the nanostructure growth and DSSC application of rutile TiO ₂	Journal of Materials Chemistry A	2014	2 (2),	478-483	12.732	
2)	Photoelectrochemical Studies of Chemically (Sol-Gel) Synthesized Tin Oxide Nanocrystallites	International Journal of Nanoengineering and Nanomanufacturing	2013	1(2)	30-37		
3)	Monoclinic TiO ₂ : A study on Concentration Dependent Morphology Change for CdS sensitized Photoelectrochemical Cells.	SRTMU's Research Journal of Science	2013	3(3)	237-242		
4)	Roughness-based monitoring of transparency and conductivity in Boron-doped ZnO thin films prepared by spray Pyrolysis.	Materials Research Bulletin	2012	47(12)	4257-4262	4.641	
5)	Computational study of 5d transition metal Mononitrides and Monoborides density functional method	Bulletin of Materials Science	2010	33(3)	233-238	1.392	
6)	Significance of compact layer on DSSCs performance of chemically deposited TiO ₂ - based Dye-sensitized solar cells	The International Journal of Engineering And Sciences (IJES)	2015	4	30-34		
7)	Electrochemical Supercapacitance of Cobalt Hydroxide Nanoplates Grown on Conducting Cadmium Oxide Base-Electrodes	Arabian Journal of Chemistry	2017	10(4)	515-522	3.725	
8)	β-Cobalt Hydroxide as an Efficient Electrode for Electrochemical Supercapacitor Application	Journal of Nanoengineering and Nanomanufacturing	2016	6(2)	157-160	0.64	
9)	Pseudocapacitive performance of a solution-processed β-Co (OH) ₂ electrode monitored through its surface morphology and area	Dalton Transactions	2017	46(10)	3393-3399	4.390	

Sr. No.	Title of Research Article	Name of Authors	Name of Journal	Year	Volume No.	Page No.	Impact Factor
1)	Jagtikikarnat Tantradnyan va Marathi bhasheche yogdan, vyapti and adthalhe (जागतिकीकरणात तंत्रज्ञान व मराठीभाषेचे योगदान, व्याप्ती आणि अडथळे)	Sanjay L. Gaikwad Gangadhar L. Gaikwad Gangagauri L. Gaikwad Dipali Sawant	ISBN 978-93-5311-692-7	2018	--	302-303	--
2)	Crystalline β- Co(OH)₂ Thin film as an electrode material for Electro-chemical capacitor application	Sanjay L. Gaikwad, Ankita P. Angre, Abhishek Suryawanshi, Purushottam R. Arjunwadkar, Paresh S. Gaikar	Journal of Emerging Technologies and Innovative Research (JETIR)	2018	5	678-683	5.87
3)	Analysis of Psychological Approach behind Physics subject -feels Difficult	PradnyaPatil , Paresh S Gaikar, Pratap V. Kathare , Gangadhar L Gaikwad , Gangagauri L Gaikwad , Dipali U Sawant , Sanjay L Gaikwad	Think India Journal ISSN:0971-1260	2019	22 (38)	158-164	5.9
4)	. "To Study the Women Socio-Economic Status (Empowerment) through MNREGA Scheme in Maharashtra: Special Reference to Ahmednagar District"	Gangagauri L Gaikwad , Gangadhar L Gaikwad , Dipali U Sawant , S.S. Patange , S.B. Pate , Sanjay L. Gaikwad	Our Heritage ISSN: 0474-9030	2019	Vol-67- Issue- 11	52-57	4.912
5)	Challenges of Digital Economy: Special Reference to Digital India	Gangagauri L Gaikwad, Gangadhar L Gaikwad, Dipali U Sawant, Gangasagar L Gaikwad, Sanjay L. Gaikwad	Aarhat multidisciplinary international educational research journal (A M I E R J) Peer reviewed Journal	2019	Vol-8, Issue 23 530-535,		

6)	Challenges to Rural Development in India: Special Reference to Maharashtra	Gangadhar L Gaikwad, Gangagauri L Gaikwad, Dipali U Sawant, Gangasagar L Gaikwad, Sanjay L. Gaikwad	Aarhat multidisciplinary international educational research journal (A M I E R J) Peer reviewed Journal	2019	<i>Vol-8, Issue 23</i> 536-541	
7)	Binderless synthesis of nanoknotnet-like cobalt oxide for supercapacitor application	Sanjay L. Gaikwad , Ankita P. Angre , Vishal A. Naik , Jyotsna G. Pargaonkar , Priya A. Patil , Kamlesh V. Chandekar , Archana U. Chavan , Paresh S. Gaikar	Materials Today: Proceedings	2021,	Vol 43, Part 4, 2663-2667	
8)	Challenges and opportunities for teaching Physics in undergraduate level under covid-19 pandemic	Sanjay L. Gaikwad	Aayushi International Interdisciplinary Research Journal (AII RJ) Peer and Indexed Journal 2349-638x	2021	Issue 86 275-277	7.149
9)	Phytochemical analysis, anti-oxidant and anti-inflammatory of Belosynapsis vivipara leaves and roots	Nitin A Sasane, Paresh S Gaikar, Sanjay L Gaikwad , Arun K Valvi ,Gurumeet C Wadhawa	International Journal of Botany Studies ISSN: 2455-541X	2021	Volume 6, Issue 4, 138-142	5.12
10)	Cultivation of mushroom (Pleurotussajor-caju) using rice straw	Laxman R Rathod, Sanjay L Gaikwad ,Gurumeet C Wadhawa , Nitin A Sasane	International Journal of Botany Studies ISSN: 2455-541X	2021	Volume 6, Issue 4, 471-473	5.12
11)	“Phytochemical Analysis, Anti-oxidant and Anti-inflammatory Activity of Crinum Brachynema Leaves, Flowers and Fruits”	Nitin A Sasane , Paresh S Gaikar, Sanjay L Gaikwad , Arun K Valvi ,Gurumeet C Wadhawa	Journal of Cardiovascular Disease Research ISSN 0975-3583	2021		

Sr. No.	Title of Research Article	Name of Authors	Name of Journal	Year	Volume No.	Page No.	Impact Factor
12)	Cyber Security and Cyber Crime Awareness Need of Time: A Critical Analysis	Nandini Gaikwad, Pooja Thakur, Nitin Sasane, Ravindra Morbeka, Sanjay Gaikwad,	Sanshodhak (UGC care list)	March 2022	Special issue 7	436-440	
13)	Application of Information Technology in the Agriculture Sector of Indian Economy	Nandini N. Gaikwad , Pooja P. Thakur , Vrushali M. Thakur , Sanjay L. Gaikwad	International Journal of Advanced Research in Science, Communication and Technology (IJARSCT) ISSN (Online) 2581-9429	March 2022	Volume 2, Issue 3,	140-142	

❖ Research projects (2010-2016-17)

(MRP Under Mumbai University = 04 and UGC MRP = 01)

Sr. No.	Title of the project	Year	Worked as	Agency	Amount	Status
1	Photosensitization of SnO ₂ by using inorganic chalcogenide Ref. No. APD/237/261 of 2011 dated 28 th Sept. 2011	2012-13	Principal Investigator	Minor R.P. Under Mumbai Uni.	37,000/-	Completed
2	PbS-ZnO Hetrojunction Solar Cell. Ref. No. APD/237/262 of 2011 dated 28 th Sept. 2011	2012-13	Co-Principal Investigator	Minor R.P. Under Mumbai Uni.	35,000/-	Completed
3	Enhancement of Photosensitization of Chemically synthesized TiO ₂ nanostructures Ref. No. APD/237/350 of 2014 dated 17 th Oct. 2014	2014-15	Principal Investigator	Minor R.P. Under Mumbai Uni.	30000/-	Completed

4	Chemically synthesis of Cobalt Hydroxide Nanostructures for super capacitor application. Ref. No. APD/237/351 of 2014 dated 17 th Oct. 2014	2014-15	Co-Principal Investigator	Minor R.P. Under Mumbai Uni.	30000/-	Completed
5	Enhancement of Photosensitization and super-capacitance performance of Chemically synthesized SnO ₂ nanostructures by Surface Modification	2014-15	Principal Investigator	Minor R.P. Under UGC	2,00,000/-	Ongoing

Name of the Investigator	Project title	Sponsoring Agency	Amount (Rs.)
P.I.- Dr. Girish S. Gund Co- P. I.- Mr. S.L. Gaikwad	Design and Fabrication of defect-controlled/ 3D porous electrodes for efficient Zinc-Ion battery Diary No. SERB/F/6469/2021-2022 dated 30 December 2021.	Science & Engineering Research Board (SERB) The Department of Science & Technology, Government of India. Delhi	26,96,804/-

Research projects (2017-18 to 2021-22)

(Minor Research Projects Under Mumbai University = 01 and UGC MRP = 01 and Institutional level 03)

Sr. No.	Title of the project	Year	Worked as	Agency	Amount	Status
1	Enhancement of Photosensitization of SnO ₂ by using Inorganic Chalcogenide Ref. No. APD/237/323 of 2018 dated 27 th March 2018 P. I.- Mr. Sanjay Gaikwad Co- P.I.- Mr. Paresh Gaikar	2017-18	Principal Investigator	Minor R.P. Under Mumbai Uni.	25,000/-	Completed
2	Chemical Synthesis of cobalt oxide for supercapacitor application P.I.- Mr. Paresh Gaikar Co- P. I.- Mr. Sanjay Gaikwad Ref. No. 715(5)/18-19 Dated 28/11/2018	2018-19	Co-Principal Investigator	Minor R.P. at Institutional Level	10,000/-	Completed
3	Chemical Synthesis of Iron Oxide for Gas Sensor P. I.- Mr. Sanjay Gaikwad Co- P.I.- Mr. Paresh Gaikar Ref. No. 715(4)/18-19 Dated 28/11/2018	2018-19	Principal Investigator	Minor R.P. at Institutional Level	10,000/-	Completed
4	Chemical Synthesis of Nickel Borate for electrochemical applications P.I.- Dr. Girish S. Gund Co- P. I.- Mr. Sanjay Gaikwad Ref. 310(3)/20-21 Dated 19/11/2020	2020-21	Co-Principal Investigator	Minor R.P. At Institutional Level	10,000/-	Completed
5	Enhancement of Photosensitization and super-capacitance performance of Chemically synthesized SnO ₂ nanostructures by Surface Modification F.No.47-1098/14 (SC/1/WRO) XII Plan, 29 th June 2017 P. I.- Mr. Sanjay Gaikwad	2017-18	Principal Investigator	Minor R.P. Under UGC	2,00,000/-	Completed

Research Paper Presented in National / International Conferences / seminars

Sr. No.	Title of the Paper presented	Title of Conference/ Seminar	Date of the event	Organized by	Whether international/ national/state/ regional college or university level
1	JagtikikarnatTantradnyanvaMarathi bhashecheyogdan, vyapti and adthalhe (जागतिकीकरणाततंत्रज्ञानवमराठीभाषेचेयोगदान, व्याप्तीआणिअडथळे)	Jagtikikaranva Marathi bhashechapravah	28th march 2018	Marathi department, MPASC college, Panvel.	International
2	Photosensitization of Chemically Synthesized SnO₂ for Solar Cell Applications	Recent Trends in Science and Technology for Sustainable Developments 2018” (RTSTSD-2018)	22nd-23rd March 2018.	Institute of science	National Seminar
3.	Analysis Of Psychological Approach Behind Physics Subject -Feels Difficult		13th Dec. 2019	Political Science and Psychology Department, MPASC college, Panvel.	International

List of PPT and Video Created-

Sr. No.	F. Y. B.Sc.	S.Y. B.Sc.	T.Y. B.Sc.
1	Sem I Paper I (Modern Physics) Introduction to Nucleus	Sem III Paper III 1) Acoustics of Building and Sabines Formula	SEM V Paper I M.B. statistics, Gaseous State
2	Radioactivity	2) Characteristics of Laser	Molecular Velocities
3	Laws of Radioactivity	3) He-Ne Laser	B.E. Statistics
4	Nuclear Detectors	4) Applications of Laser	Black Body radiations
5	Introduction to X- rays and Its characteristics	5) Introduction to Optical Fiber and Its types	SEM V Paper IV Maxwell's Equations
6	Compton Effects	6) Numerical aperture Applications Optical Fiber	Poynting's Theorem
7	Sem I Paper II (Mathematical Physics) Magnetostatics	Paper II Applied Physics 7) Application STIE : for free state: Step Potential	SEM VI Paper I Kepler's Laws of Motions
8	Helmholtz Coils	8) Application STIE : for free state: Rectangular Potential	Equation of Orbit and Solution of Orbit
9	Differential equations	9) Application STIE : Bound state: Rectangular Potential	Lagrange's Equation
10	10) First Order DE	10) Application STIE : Bound state: Rectangular Potential (3-D)	Chaos

6. Certificate of participation in workshops/ Seminars/Webinars

7. Certificates of participation in Orientation/ Refresher FDPs etc.

Orientation Course: UGC HRDC and BAMU (31/01/2015 to 28/02/2015)

Refresher Course: UGC-HRD Punjabi Uni. Patiala (20/06/2016 to 09/07/2016)

Refresher Course:

SWAYAM: Annual Refresher Programme in Teaching (ARPIT) through Online Mode.

September 2018 to March 2019

Refresher Course:

SWAYAM: (ARPIT) through Online Mode.

Jan 2019 to July 2019 (Two MOOC Courses)

Refresher Courses:

7th June 2021 to 21st June 2021 and 22nd June 2021 to 26 July 2021

Sr. No.	Chapter Or Book Title
1	ANTIBACTERIAL ACTIVITY OF BIOPESTICIDES AGAINST SEED-BORNE FUNGI OF JOWAR L. R. Rathod And S. L. Gaikwad Pp 68 – 74 (Advances In Plant Science Volume II (ISBN: 978-93-91768-50-8))
	Three Chapter Published Book Published By Lulu.Com International Publisher (ISBN-9-781458-322760)
2	ISRO THE IMPRESSION OF INDIA IN SPACE COMMUNICATION: SPECIAL REFERENCE TO MARS MISSION Pp: 9-12
3	IMPACT OF SCIENCE AND TECHNOLOGY ON HUMAN HEALTH AWARENESS: SPECIAL REFERENCE TO COVID-19 PANDEMIC SCENARIO Pp:163-168
4	EVOLUTION OF MOBILE TECHNOLOGY AND ITS IMPACT ON INDIA Pp 169-173
	Editor Of Book
5	“Advances In Computer Science And Information Technology (ISBN: 978-93-91768-28-7)” Published By Bhumi Publishing House In January, 2022.
6	“Advances In Material Science Volume II (ISBN: 978-93-91768-91-1)” Published By Bhumi Publishing House In April, 2022
7	“COVID 19: Impact And Response Volume VIII (ISBN: 978-93-91768-61-4)” Published By Bhumi --Publishing House In April, 2022

9. Awards and recognition etc

- 1) Vidya Bhushan Puraskar, awarded by Indian NET-SET Association in 2010**
- 2) Best Paper Presentation Award, in International Conference in 2019**
- 3) Best Performer Award (Best Teacher Award) honoured by M.P.A.S.C. College, Panvel (Home Institution) in A Y 2011-12, 2012-13, 2014-15,2018-19 and 2021-22 resp.**
- 4) UGC Minor Research Project, awarded by University Grants Commission in 2014-15**
- 5) Best Achievements Award (Appreciation For achievements) by M.P.A.S.C. College, Panvel (Home Institution), in 2012-13, 2014-15 & 2015-16 resp.**
- 6) Summer Research Fellow (SRFP 2020), awarded by Indian Academy of Science, Bengaluru, INSA , Delhi, The National Academy of Science, India, Prayagrajin 2020**
- 7) Minor Research Projects (05 MRP) awarded by Mumbai University Mumbai in 2011-12, 2014-15 and 2017-18 (3 Principal Investigators and 02 Co-PI)**
- 8) International Award: Excellence in Academics & Research Award 2021 in 3rd international IJMTST Excellence Awards 2021.**
- 9) International Award: Best Research award by International Research Awards on Science, Technology and Management 14 & 15-May-2022 | Chennai, India**
- 10) National Award: Dr. Bababsaheb Ambedkar National Best teacher award 2021.**

