

Curriculum Vitae (C.V.)

Dr. Rajendrakumar Banshilal Ahirrao
(Assistant Professor)
Uttamrao Patil Arts and Science College,
Dahivel. ahirraorb@gmail.com



- 1. Department:** Physics
- 2. Current Designation:** Assistant Professor
- 3. Date and Place of Birth:** 6/12/1968.
- 4. Address for correspondence:** Dept of Physics,
Uttamrao patil college of Art's & science,
Sakri Road National Highway no.6th, Dahivel,
Tal-Sakri, Dist-Dhule-424304, Maharashtra.

Telephone (s): Office - (02561)230643

E-mail Address: ahirraorb@gmail.com

5. Research Degrees

Exam Passed	Title	Date of Award	University	Grade
M.Phil.	“synthesis and gas sensing properties of pure and modified Strontium Titanate (SrTiO ₃)”	8/7/2009	North Maharashtra University, Jalgaon	A
Ph.D.	“Studies on SrTiO ₃ thin films prepared by Spray pyrolysis Technique”	13/8/2019	North Maharashtra University, Jalgaon	A

- 6. Employer:** Uttamrao Patil College of Art's & science, Dahiwel, Tal-Sakri, Dist.-Dhule.
- 7. Date of Joining:** 13/07/1998
- 8. Period of teaching experience:** 24 Years
- 9. Academic staff college orientation/Refresher/short term courses attended:**

Name of the course	Place	Year	Duration	Sponsoring Agency
Orientation	Dr. Babasaheb Ambedkar Marathwada University. Aurangabad, Maharashtra	2002	3 Weeks	UGC
Refresher Course	Himachal Pradesh University, Summer hill Shimla	2010	3 Weeks	UGC
Refresher Course	Special summer School in Quantum Mechanics, UGC-Academic College Kannur University, Kerala	2013	3 Weeks	UGC

Refresher Course	Refresher Course in Environmental Science-Academic College, Savitribai Phule Pune University,Pune & Z.B.Patil College Dhule-Maharashtra.	2014	3 Weeks	UGC
Short term course (FDP)	The Human Resource Development Centre, Savitribai Phule University, Pune, conducted by ASC college, Taloda.	2017	1 Weeks	UGC HRDC
FDP (online)	Managing online Classes and cocreating MOOC's (Online from Delhi)	2020	2 Weeks	MHRD Conducted by Ramanujan College University of Delhi.
Workshop (Online)	Comprehensive e-Learning to e-Training guide for Administrative Work	May2020	2 Weeks	MHRD Conducted by Ramanujan College University of Delhi.
Workshop (online)	International Workshop on Research Methodology (WORAM-2021)	2021	One Month	Eudixia Research Center India.ISO 9001:2015 Certified: IAF Accredited and Reg under MCA Govt of India)

10. Research Activities:

I) Research articles presented in Conferences/ Seminars/ workshops / symposia etc(APENDIX-I)

Sr.No.	Whether International/ National/ Regional/State/ Local-University/College level	Oral/Poster	Number
1	International Conferences	Oral /Poster	7
2	National Conference/ Seminars/Workshops etc	Oral /Poster	25
3	Regional/State level	Oral/Poster	5
4	Local-University/College level	poster	4

II) Number of Students Registered/Guided for M. Phil /Ph.D.:01 (for Ph D.)

Sr.No.	Name of university under which the student is perusing Ph.D.	Title of the Research
1	Shri Jagdishprasad Jhabarmal Tibrewala University Junjnu, Chudela, Jhunjhunu, Rajasthan	"Gas Sensing Properties of Metal Doped TiO ₂ Thin Film Sensors Prepared by Spray Pyrolysis Technique"
2	Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.	"Study of Pristine and Doped ZnO thin films Fabricated by Spray Pyrolysis Technique for Gas Sensing Application"

11) Articles In Periodical

Sr.No.	Name of the Book	Publisher	ISBN No	Year
1	Maze Kutumbh-Mazi Jababdari	Atharv Publication, Dhule	978-81-953171-1-0.	2021
2	Ashi Kahani Vishvautpatyichi	Srishtidnyan	2456-2114	2023

III) No of Publications:25, Citation index:06, h index-1

i) List of publication

Sr No	Title of the paper	Name of the Journal	Year of Public.	ISSN no.	UGC Recog.Journal no	Impact Factor	Level
1	Estimation of ground-state energy of particle in 1-d potential well-variation method	Educreator Research Journal (ERJ)	2015	2394-8550	--	3.521	Intern.
2	Synthesis of SrTiO ₃ thin films by spray pyrolysis technique	International Journal of Scientific Engineering and Applied Science (IJSEAS)	2015	2395-3470	--	4.214	Intern.
3	Photoconductivity Study of Spray Pyrolyzed STO Thin Films	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2019	2321-9653	45842	6.887	Intern.
4	Synthesis and Characterization of Nanocrystalline Barium Strontium Titanate Powder by Machaon Chemical Method	IOSR Journal of Applied Physics (IOSR-JAP)	2019	2278-4861			Intern.
5	Study of Physical Properties of Nanocrystalline NiO Thin Films Prepared by Spray Pyrolysis Technique	Journal of Nanoscience and Technology (JNST)	2019	2455-09191	UGC approved	1.354	Intern.
6	Influence of Band Gap Energy and Substrate Temperature on Gas Sensing Properties of Cu-doped SrTiO ₃ Thin Films	IOSR Journal of Applied Physics (IOSR-JAP)	2019	2278-4861	5010	Online	Intern.
7	Spray pyrolyzed Nanostructured Cu doped Strontium Titanate Thin Films for highly sensitive Chlorine gas sensor”	International Journal of Innovative Research in Science, Engineering and Technology	2017	2319-8753	3297	7.089	Intern.
8	Structural and Optical properties of spray pyrolyzed SrTiO ₃ Thin films	SPEED Journal of research in Electronics (Proceeding)	2016	2349-8226	----	-----	National

9	Study of Dielectric Properties of Dry and Moist Bajra Grains at X-band Microwave Frequency	Platinum (Proceeding)	2016	2231-0096	---	---	National
10	Microwave dielectric study of Finger millet (Nagali) at 9.7 GHz frequency	Journal of Research and development (Proceeding)	2018	2230-9578	64768	4.270	Intern.
11	Study of spray pyrolyzed SrTiO ₃ and Cu doped SrTiO ₃ thin films for Photoconductivity application	International Journal of Multidisciplinary Studies (IRJMS)	2018	2454-8499	UGC approved	1.3599	Intern.
12	Dielectric Properties of Wheat Food Grain and its Frequency Dependence	An International Multidisciplinary Quarterly Research Journal AJANTA	2019	2277-5730	40776	5.5	Intern.
13	Hydrogen sulfide gas-sensing properties of pure and Cu modified SrTiO ₃ nanostructured thin films	SOUVENIR P.G. Dept. of Chemistry, G.T. Patil College, Nandurbar	2019	978-9387098-24-4	----	-----	Nation.
14	Temperature and field dependence of thermally stimulated Discharge current in polymer nanocomposite electrets	SOUVENIR Dept. of Electronics, G.T. Patil College, Nandurbar	2016	978-9384198-42-8	-----	-----	Nation.
15	Photoconductivity study of spray pyrolyzed pure and Cu-modified SrTiO ₃ thin films	Materials Today: Proceeding	2020	22147853	Scopus	---	Intern.
16	Coronavirus (COVID-19) General Information to Scientific Study: A review		2020				Intern.
17	CuO-MODIFIED SrTiO ₃ THICK FILM RESISTORS FOR LPG SENSING	Mazedan International Research Academy	2021	25829505			Intern.
18	Thin film Deposition Methods: A Critical Review	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2021	2321-9653	UGC Appro.	7.429	Intern.
19	Studies on H ₂ S Gas Sensing Performance of Pure and Modified Strontium Titanate Thick Films	Journal of Scientific Research of the Banaras Hindu University	2021	0447-9483	UGC Care listed	Five-year impact	Intern.

20	Study of Photodegradation of Methylene Blue Using Nitrogen Doped TiO ₂ Nanoparticles	Journal of Scientific Research of the Banaras Hindu University	2021	0447-9483	UGC Care listed	Five-year impact	Intern.
21	Effect of pre-heating temperature on ZnO thin films prepared by ultrasonic atomization and pyrolysis technique	Journal of Scientific Research of the Banaras Hindu University	2021	0447-9483	UGC Care listed	Five-year impact	Intern.
22	RD and ED-XRF study of Indian; Modern, Ancient and Historic Coins	Journal of Scientific Research of the Banaras Hindu University	2021	0447-9483	UGC Care listed	Five-year impact	Intern.
23	Study of Thymyl Ethers as a Plant Growth Regulators	Journal of Scientific Research of the Banaras	2021	0447-9483	UGC Care listed	Five years	Intern.
24	Therma Acoustic Studies of Mixed Surfactants (Brij-97 + DTAB) System in Presence of Various Additives	Journal of Scientific Research of the Banaras Hindu University	2021	0447-9483	UGC Care listed	Five-year impact	Intern.
25	Cu _{1-x} Sr _x TiO ₃ thin film resistors for Carbon Monoxide sensing	International Journal of Food and Nutritional Sciences	2022	2320 7876	UGC Care listed	7.832	Intern.

ii) No of Book Published:07

Sr.No.	Name of the Book	Publisher	ISBN No	Year
1	A Text Book of PRACTICAL PHYSICS,	Prashant Publications, Jalgaon.	978-93-85021-94-7	2015
2	A Text Book of PRACTICAL PHYSICS	Prashant Publications, Jalgaon.	978-93-85019-93-7	2016
3	Electricity And Electrostatics	Success Publications.Punne	978-93-88441-40-7	2019
4	Practical Course in Physics	NIRALI Prakashan, Pune	978-93-89944-39-9	2020
5	Mathematical Physics	Prashant Publication, Jalgaon.	978-93-90483-14-3	2020

11) Award and recognitions:

The Article Photoconductivity study of spray pyrolyzed pure and Cu-modified SrTiO₃ thin films have been received the ASTRA award 2023.Thricchor Chainaii.