RESUME

Personal Information

1.	**Name**	**:**	**Dr. Nilesh Ingale**
2.	**Designation**	**:**	**Assistant Professor**
3.	**Address**	**:**	**Saptgiri Colony, Balaji Nagar, Nanded-431605**
4.	**College Address**	**:**	**Yeshwant Mahavidyalaya, Baba Nagar, VIP road Nanded**
5.	**E-Mail & Cell No.**	**:**	**ingaleyash7@gmai.com, 9175522297**
6.	**Date of Birth**	**:**	**02/09/1988**
7.	**Date of Appointment**	**:**	**12 July 2023**
8.	**Date of Superannuation**	**:**	
9.	**Subject & Specialization**	**:**	**Physics** ▪ **Condensed matter Physics** ▪ **Ab initio method** ▪ **Density function theory** ▪ **Molecular dynamics** ▪ **Artificial intelligence enabled material science**

10. Academic Qualification:

Degree	**Subject**	**Name of University**	**Year of Passing & Award if any**	**Links**
10th (SSC)	Marathi, Hindi, Science & technology, Mathematics	Maharashtra state board	2004	
12th (HSC)	Physics, Chemistry, Mathematics & statistics, Biology	Maharashtra state board	2006	
B.Sc.	Physics, chemistry and Industrial Chemistry	S.R.T.M.University, Nanded	2009	
M.Sc.	Physics	S.R.T.M.University,	2012	

		Nanded		
M.Phil.	Physics	S.R.T.M.University, Nanded	2015	
SET	Physics	S.P.P.University, Pune	2018	
Ph.D.	Physics	Mumbai University, Mumbai	2022	
MS-CIT	-	-	-	-

11. Orientation, Refresher and Short Term Course:

S.N.	Name of the Course	Place	Duration	Sponsor	Links
1.					
2.					
3.					
4.					
5.					
6.					

12. Work Experience/ Promotion Latters:

Sr. No.	Name of Organization	Designation	Subject & Department	Joining date	Date of Leaving	Links
1.					-	

13. Research Projects Under Taken:

Sr. No.	Major/Minor	Title	Funding Agency	Amount	Duration	Links
1.						
2.						

14. Research Guide:

Sr. No.	Name of University	Number of Students Awarded	Number of Students Under Guidance

15. Details of M.Phil. students Registered and Awarded:

Sr. No.	Name	Title	Registered	Submitted	Awarded	Links
1.						
2.						

16. Details of Ph.D. students Registered and Awarded:

Sr. No.	Name	Title	Registered	Submitted	Awarded	Links
1.						
2.						

17. Research Paper Publications:

Sr. No.	M.& Ye. Of Publication	Title of Paper	Name of Co-author if any	International/ Na./St./Reg. with impact Factor	Links
1.	2022	Hazardous molecules and VOCs sensing properties of Ti functionalized benzene: an ab initio study	**Nilesh Ingale,** Priyanka Tavhare, Ajay Chaudhari	Sensors and Actuators A: Physical, 342, 113657	https://doi.org/10.1016/j.sna.2022.113657
2.	2021	Titaniumbenzene complex as a molecular oxide sensor: a first principles approach	**Nilesh Ingale,** Priyanka Tavhare, Mohammad Solimannejad, Ajay Chaudhari	Journal of Molecular ,Modeling, 27, 242,	https://pubmed.ncbi.nlm.nih.gov/34370101/
3.	2020	Volatile organic compounds sensing by Li/Ti doped ethylene complex,	**Nilesh ingale,** Ravinder Konda and Ajay Chaudhari,	Adsorption , 26 (1), 103-115,	https://link.springer.com/article/10.1007/s10450-019-00172-9
4.	(2019)	Metal doped ethylene complexes for hazardous gas molecule sensing.	**Nilesh Ingale,** Ravinder Konda and Ajay Chaudhari	Structural chemistry, 30 (3), 1057-1066,	https://link.springer.com/article/10.1007/s11224-018-1256-4
5.	(2018)	Gas sensing properties of organotitanium complex from first principles calculations and molecular dynamics simulations	**Nilesh Ingale**, Konda R, Chaudhari A	Chem. Phys. Lett. 706, 247-254	https://doi.org/10.1016/j.cplett.2018.06.016
6.	(2018)	Organolithium complex as a gas sensing material for oxides from ab initio calculations and molecular dynamics simulations,	**Nilesh Ingale,** Ravinder Konda and Ajay Chaudhari	International Journal of quantum chemistry, 118 (15), e25623,	https://doi.org/10.1002/qua.25623
7.	2018	Spectroscopic analysis of Sulphur dioxide adsorbed C_2H_4Ti complex: A First Principles study,	**Nilesh Ingale** and Ajay Chaudhari	Indian J pure and Appl. Phys, (56) 331- 334	http://nopr.niscpr.res.in/handle/123456789/44196

18. Chapters Published in Books/Conference Proceedings

Sr. No.	Month & Year of Publication	Title of Chapter Penned	Title of the Book	Page No.	Name of Co-author if any	Int/Na/St/Re with ISBN	Links
1.	2018,	Tetrahedral silsesquioxane-C_2H_2Ti complex for hydrogen storage	AIP Conference Proceedings,	1942, 140011	Nilesh Ingale, Ravinder Konda, Priyanka Tavhare and Ajay Chaudhari	-	https://doi.org/10.1063/1.5029142

19. Book Publications:

Sr. No.	Month & Year of Publication	Title of Book	Name of Co-author if any	Int/Na/St/Re with ISBN	Links
1.					
2.					

20. Paper Presented in Conferences, Seminars, Workshop, Symposia:

Sr. No.	Month & Year of Presentation	Title of Paper	Name of Co-author if any	Int/Na/St/Re with ISBN	Links
1.	3-4 March 2020 .	VOC sensing by Lithium doped ethylene complex: A first principle study	Nilesh Ingale and Ajay Chaudhari	National	The Institute of science, Mumbai, Maharashtra, India
2.	9-10 January 2020,	"Formaldehyde and Fluroform Sensing by Metal Doped Ethylene: A First Principle Study"	Nilesh Ingale and Ajay Chaudhari	National	B. N. Bandodkar college of Science, Thane
3.	7-9 November,2019,	CO_2 adsorption on Li doped C_2H_4 complex: A first principles study	Nilesh Ingale and Ajay Chaudhari	International	first DAE-BRNS computational chemistry symposium (DAE-CCS2019), Chemical engineering group, BARC, Mumbai.
4.	21-22 February 2019,	H_2S splitting over Ti doped	Nilesh Ingale and	National	"National conference on

		C_2H_4 complex: A First principle study	Ajay Chaudhari		physics and chemistry of functional materials 2019(PCFM-2019), GITAM University Hydrabad, Telengana, India.
5.	14-15 February 2019	NO_2 reduction over Ti decorated C_2H_4 complex: A First Principle study	Nilesh Ingale and Ajay Chaudhari	National	"National conference on recent trends in Chemistry (RTC-2019), Department of chemistry, The Institute of Science, Mumbai, Maharashtra
6.	24 January 2019,	Reduction of carbon dioxide by C_2H_4Ti complex: A solution to global warming	Nilesh Ingale and Ajay Chaudhari	International	international conference on challenges in environmental management (CEM 2019), Sir Sitaram and lady shantabai Patkar college of arts and science and V.P. Varde college of commerce and economics, Goregaon, Mumbai, Maharashtra
7.	, 10-11 January 2019	Hydrogen sulphide gas sensing by metal-doped ethylene complex: a first principles study	Nilesh Ingale and Ajay Chaudhari	International	, 4th international conference on physics of materials and materials based device fabrication Shivaji University, Kolhapur, Maharashtra, India.
8.	12-14 December 2018,	CO_2 splitting over Ti doped ethylene complex: a first principle study	Nilesh Ingale and Ajay Chaudhari	International	school on "Modeling and simulations of materials for energy and environment", JNCASR, Bengalore, India
9.	4-8 December 2018,	Gas sensing properties of Metal Doped Ethylene Complex: A First Principles Study	Nilesh Ingale and Ajay Chaudhari	National	"DAE-BRNS 7th Interdisciplinary symposium on materials chemistry (ISMC-2018)" ,.Bhabha atomic research center (BARC) Mumbai
10.	26-29 September 2018	Hazardous Gas Molecule Sensing using Metal Doped	Nilesh Ingale and Ajay Chaudhari	International	"Materials and technologies for energy conversion and storage

		Ethylene from First Principles Study and Molecular Dynamics Simulations			(MTECS 2018, BARC, Mumbai, Maharashtra, India
11.	22-23 March, 2018,	Interaction of oxides with organometallic complex: a first principle study	Nilesh Ingale and Ajay Chaudhari	National	"National seminar on recent trends in science and technology for sustainable developments-2018(RTSTSD)", The Institute of Science, Mumbai, Maharashtra, India.
12.	5-6 March 2018,	"C_2H_4 Ti complex as an adsorbent material for monoxide gas molecules: quantum chemical study	Nilesh Ingale and Ajay Chaudhari	National	A National level meet on hydrogen energy and related advanced materials (HEAM Scientist-2018)", University of Kerala, Department of Chemistry, Thiruananthapuram, Kerala, India.
13.	12-13 January, 2018,	Adsorption of carbon monoxide on Li decorated C_2H_4 complex: a first principles study	Nilesh Ingale and Ajay Chaudhari	International	"International conference on advances in functional materials (ICAFM2018)", K. R. T. College, Nashik, Maharashtra, India
14.	14-15 December, 2017,	Spectroscopic analysis of Sulphur dioxide adsorbed C_2H_4Ti complex: a first principle study	Nilesh Ingale and Ajay Chaudhari	National	"National conference on Dielectric relaxation and spectroscopic techniques (NCDRAST)" School of Physical Sciences , S. R. T. M. University, Nanded, Maharashtra, India
15.	6-8 January, 2017,	Organometallic complexes as a gas sensor: a quantum chemical study	Nilesh Ingale and Ajay Chaudhari	International	International conferences on advances in functional materials (ICAFM-2017)" Anna university, Chennai, Tamilnadu, India.
16.	6-7 April 2015,	Synthesis and	Nilesh	National	"3rd international

		characterization of sol-gel synthesized TiO_2 nanoparticles.	Ingale and Ajay Chaudhari		conference on emerging trends and research in engineering and technology" India IBSS College of Engineering, Amravati, Maharashtra,
17.	27 March 2015,	TiO_2-HaP For Ammonia gas sensing at room temperature.	Nilesh Ingale and Ajay Chaudhari	National	"Environmental, Geological, Geographical and Geophysical aspects: South East Deccan traps (ENGAGE-2015)" School of Earth Sciences, S.R.T.M. University, Nanded, Maharashtra, India.
18.	January 13-15 2014	Development of ammonia sensor by using Ti doped hydroxyapatite	Nilesh Ingale and Ajay Chaudhari	International	Shivaji University "2nd international conference on Physics of materials based device fabrication (ICPM-MDF-2014)", Kolhapur, Maharashtra, India.

21. Organization of Conferences, Seminars, Workshop, Symposia:

Sr. No.	Month & Year of Presentation	Title of Event	Funding Organization	Int/Na/St/Re Level	Nature of Work	Links
1.						
2.						

22. Invited Lectures/Resource Person:

Sr. No.	Title of Lecture/Academic Session	Title of Conference/ Seminar etc.	Organized by	Whether International/ National	Links
1.	Dissociation of Carbon dioxide (CO_2) over Ti decorated C_2H_4 complex: A First Principle study	"Recent trends in Physical, mathematical, chemical and life sciences for make in India" 1-2 February, 2018,	Amruteshwar Arts, Commerce and Science college Vinzer, Pune, Maharashtra, India.	National	

23. Awards:

Sr. No.	Date and Year	Award	Agency	Link
1.	2013-2015	Dr. Babasaheb Ambedkar National research fellowship	BARTI Pune, Government of Maharashtra.	
2.	2017-2019	Rajiv Gandhi National Junior Research fellowships	University Grant commission, New Delhi, Government of India	
3.	2019-2021	Rajiv Gandhi National Senior Research fellowships	University Grant commission, New Delhi, Government of India	

24. Special Achievements:

Sr. No.	Date and Year	Achievement	Agency	Link
1.	2021	Masters in Data science	Simplilearn	
2.				

Name & Signature
Dr. Nilesh Ingale