

BIO – DATA

Name and Designation: Dr. T. B. Pawar,

Associate Professor in Chemistry.

Department of Chemistry

L. V. H. College Panchavati Nashik

Nashik – 422 003.

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Educational

Ph.D. [Department of Chemistry M.S.G. College Malegaon, (affiliated to University of Pune), 2003]

M.Sc. Organic Chemistry, [Department of Chemistry S.S.V.P.S. College Dhule, (affiliated to University of Pune), 1990]

B.Sc. [Arts, Science and commerce college Satana, Nashik, (affiliated to University of Pune), 1988]

Research Interests:

- Synthesis of Heterocyclic compounds
- Synthesis of Biologically active Compounds
- Density functional studies (DFT)
- Thermodynamic study of electrolyte and non electrolyte solutions

Books Publications

- **Intermediates and Rearrangements in organic synthesis.**
Publisher : Himalaya Publishing House.
ISBN : 978-93-5262-001-2.

Patent (Indian) [The patent office Journal No.41/2019 dated 11/10/2019]

- Synthesis of novel compound (e)-4-(2-(2-(1,2,6,7-tetrahydro-8h-indeno[5,4- b]furan 8ylidene) hydrazineyl) thiazol-4-yl) benzonitrile.

Visit

- Visited Mauritius and presented research Paper.

Guide

- Ph. D. and M.Phil guide of Savitribai Phule Pune University

Research project

- Two minor research projects completed.

Research Publications

- Publications (List of papers published in SCI Journals, in year wise descending order).

- **Reviewer of research Journal**

Reviewer of an International peer reviewed research Journal “Material Science Research India” (MSRI)

Table: Research Paper Published in National and international Journals

Sr. No.	Title	Name of Journal	Volume	Page	Year
1	Ultrasonic Velocity and Allied Parameters of Tetraalkylammonium Bromides in Aqueous Ethanol at 298.15K	Indian J Pure & Appl. Physics	42	172-178	2004
2	Limiting Ionic Partial Molar volumes of R_4N^+ and Br^- in Aqueous Ethanol at 298.15 K	Journal of Molecular Liquids	126	19-22	2006
3	Density and Viscosity Studies of Glucose Solutions in Water and in Aqueous NaCl, NaBr, KCl and KBr Solutions at 298.15, 303.15, 308.15 and 313.15 K	Journal of Indian Chemical Society	85	1089-1092	2008
4	Density and Viscosity Studies of Symmetrical Tetra-n-alkylammonium Bromides in Water-Ethanol Mixtures at 303.15 K	Russian J Physical Chemistry A	84	429-433	2010
5	Poly (ethylene glycol) (PEG-400): A green approach towards synthesis of novel pyrazolo [3,4-d] pyrimidin-6-amines derivatives and their antimicrobial screening;	Scholars Research Library,	6(2)	61-66	2014
6	Studies of Electrical Resistivity of Vacuum Evaporated Zn-Te Thin Films	Journal of Electronic Devices	Vol. 19,	1627-1632	March. 2014
7	Apparent molar volume and viscosity B coefficients of Lithium halides in aqueous	Bionano Fronter	8(3)	71-74	2015

	methanol at 303.15K.				
8	Molecular Structure, Vibrational Spectra and theoretical HOMO-LUMO analysis of (E)-3, 5-dimethyl-1-phenyl-4-(p-tolyldiazenyl)-1H-pyrazole by DFT Method.	Der Pharma Chemica.	17	119-128	2016
9	Thermophysical studies of symmetrical tetraalkyl ammonium bromides in aqueous ethanol at 313.15 k	Researchers word International refereed Research Journal	4(4)	114-119	2016
10	A Green Catalyst Clay C (pH 12.5): A rapid synthesis for the Formation of the Benzothiazepine Derivatives	Researchers word International refereed Research Journal	4(4)	08-12	2016
11	Synthesis, Characterization and Biological Screening of Some Biologically Potent Chalcones and Their Heterocyclic Analogues.	Researchers word International refereed Research Journal	4(4)	105-109	2016
12	Synthesis, Characterization and DFT Studies of 2-[(2-substitutedphenyl) carbamoyl] benzoic acids	Journal of Chemical, Biological and Physical Sciences	7(1)	167-175	2017
13	Solubility and Density of Silver Iodide in Water and DMF at Various Temperatures as Function of Potassium Iodide	IOSR Journal of Applied Physics (IOSR-JAP	9	64-67	2017
14	Polyethenene Glycol (PEG-400): As Green reaction media for rapid synthesis of preparation	International Journal of Scientific Research in	3	187-191	2017

	of Isooxazolene derivatives and its antimicrobial screening	Science and Technology			
15	Effect of potassium iodide on solubility and density of copper in Water and DMF at various temperatures.	Research Journal of Science Engineering and Technology	7	26-31	2017
16	Ring Closer Metathesis : Green Approach Towards Synthesis of Hydroxyflavon Derivatives and its antifungal screening	Researchers word	Vol – IX, Special Issue,	98-101,	Jan 2018
17	Zinc Oxide Nanoparticle Catalyzed Biginelli Reaction under Microwave Irradiation : An Expeditious and Green synthesis of Dihydropyridimiones.	Researchers word	Vol. – IX, Special Issue,	102-105,	Jan 2018
18	Facile Green Synthesis of ZnO Nanoparticles, their Characterisation and Gas Sensing Performance	Researchers word	Vol. – IX, Special Issue,	140-142,	Jan 2018
19	DFT Study of Vibrational Spectra and HOMO-LUMO of p-Chloro Benzohydrazide	Researchers word	Vol. – IX, Special Issue,	165-170,	Jan 2018
20	Exploration of catalytic performance of nano-La ₂ O ₃ as an efficient catalyst for dihydropyrimidinone /thione synthesis and gas sensing.	Journal of Nanostructure in Chemistry	9	61–76	2019
21	Teachers Role in Effective Teaching in Chemistry at Higher Education.	An International multidisciplinary Quarterly Research Journal Ajanta.	VIII(1)	01-06	2019
22	Aqua-mediated rapid and benign synthesis of 1,2,6,7-tetrahydro8H-indeno[5,4-b]furan-8-	Journal of the Chinese Chemical Society,	Volume -66 Issue-7	01-10	15 July 2019

	one-appended novel 2-arylidene indanones of pharmacological interest at ambient temperature.	Online ISSN:2192-6549			
23	Efficient Synthesis, Antibacterial, Antifungal, Antioxidant and Cytotoxicity Study of 2-(2-Hydrazineyl)thiazole Derivatives	Chemistry Select, A Journal of ChemPubSoc Europe	Vol. 5, Issue.9	2778-2786	March. 2020
24	Ultrasound Promoted Stereoselective Synthesis of 2,3-Dihydrobenzofuran Appended Chalcones at Ambient Temperature	South African Journal of Chemistry	Vol. 73,	35-43	2020
25	Exploration of Structural and Spectroscopic Parameters of Ethyl 4-(4-isopropylphenyl)-6-methyl-2-oxo-1,2,3,4-tetrahydropyrimidine-5-carboxylate: a DFT	Chemistry and Biology Interface	Vol. --,	00-00	2020
26	Molecular Structure, Frontier Molecular Orbital and Spectroscopic Examination on Dihydropyrimidinones: A Comparative Computational Approach	Journal of advanced scientific research	Vol. --,	00-00	2020
27	Green Synthetic Approaches in Organic Synthesis: A Short Review	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Vol. 8 Issue IV	12-15	April-2020
28	Experimental and theoretical exploration on single crystal, structural, and quantum chemical parameters of	Journal of the Chinese Chemical Society		1-15	April - 2020

	(E)-7-(arylidene)-1,2,6,7-tetrahydro-8H-indeno[5,4-b]furan-8-one derivatives: A comparative study				
29	Density and Viscosity Studies of Lithium Halides in Water–Methanol Mixtures at 308.15K.	Journal of Chemical, Biological and Physical Sciences	Vol. 10, No. 2,	135-142	April - 2020

Other

- Worked as
1. **Acting principal**,
Arts, Science and commerce College Nampur Tal- satana Dist Nashik. (2010-2011)
 2. **Vice-Principal**,
Arts, Science and commerce College Surgana, Tal- Surgana, Dist Nashik. (2013).
 3. **Principal**,
Arts, Science and commerce College Surgana, Tal- Surgana, Dist Nashik.
(17 October 2013 to 02 July 2015).
 4. **Coordinator**, To Celebrate the International Year of Chemistry -2011
 5. **Secretary**, PUCTO (Local Level).2009-2010,2010-2011.
 6. **Chairman**, PUCTO (Local Level). 2012-2013.
 7. **Member** of College Development Committee of L.V. H. Arts, Science and Commerce College Panchavati Nashik.
 8. **Camp on Adulteration awareness** (especially Edible oil) at Rural area
(At Tehare, Tal Malegaon Dist Nashik) in September 2003.
 9. **Convener**: National conference on “Emerging Trends in Chemistry and Nano sciences” (ETCN-2017)
 10. **Coordinator** : International conference on “Innovations in Teaching, Learning and Evaluation in Higher Education” (ICITLE – 2019)
 11. Worked as **Observer** at different centers of the Examinations JEE Main, JEE advance, NEET, UGC –NET, Conducted by National Testing Agency.
 12. **Chairman Science Association**

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