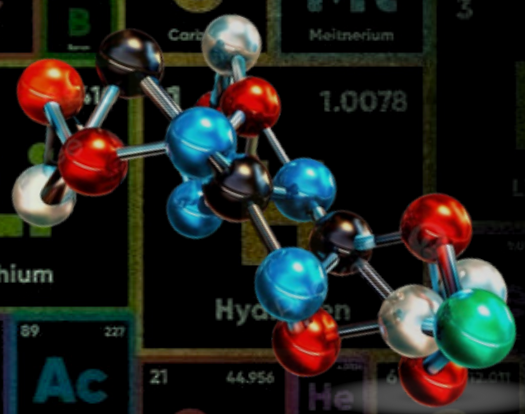
सरदार वल्लभभाई राष्ट्रीय प्रौद्योगिकी संस्थान,
सूरत-395007, गुजरात

Sardar Vallabhbhai National Institute of Technology,Surat-395007, Gujarat

समाचार पत्रिका NEWSLETTER

May 2024

रसायनिकी विभाग
Department of Chemistry



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Department Of Chemistry

The Department of Chemistry is a dynamic multidisciplinary research centre for research work in all field of Chemical Sciences that includes Computational Chemistry, Surfactants, Polymer Chemistry, Organic synthesis, Natural products, Organometallics, Metal Clusters, Nanomaterials Organic inorganic Hybrid materials, Coordination Chemistry, Biophysical Chemistry, Catalysis, Spectroscopy, Nano-Biomaterials, Quantum Chemistry, Supramolecular Chemistry and Green Chemistry. Department of Chemistry has two academic programmes: Integrated Master of Science in Chemistry and Ph.D. The Department of Chemistry at SVNIT over a period of me, has acquired many advanced analytical equipment such as NMR, ESI Mass spectrometer, surface tensiometer, ATR FT-IR, UV-Vis, HPLC, DSC, TGA, Fluorescence spectrometer etc. Department takes this privilege to publish the highest number of research articles of high repute amongst all the other department in the institute.

VISION

The Department of Chemistry aspires to be a globally recognized center of excellence in chemical research, education, and innovation, producing leaders who will contribute to the advancement of society through the application of chemistry.

MISSION

The Department of Chemistry is dedicated to fostering intellectual curiosity, creativity, and innovation in chemistry by offering a dynamic learning and research environment. In order to confront the complex difficulties facing society, we want to provide our graduates with a solid foundation in chemistry, and a capacity to uphold the highest ethical and professional standards.

Dr. Bharatkumar Dholakiya

Head of the Department

I am delighted to welcome you on behalf of the Department of Chemistry, SVNIT, Surat, as we unveil our 2024 newsletter. I would like to extend my heartfelt congratulations to our students for their dedication and perseverance in their academic pursuits. I would also like to express my gratitude to our faculty and staff for their unwavering commitment to excellence in teaching, research, and service. Your contributions are invaluable in shaping the future of our department and preparing our students for success in their chosen fields. I encourage everyone to stay engaged and involved in the exciting initiatives and opportunities like participating in research projects and internships, attending seminars and workshops, or simply fostering a sense of community within our department. Your involvement is key to our collective success and thank you for your continued support and dedication to the field of chemistry. As the Head of the Department, it's my pleasure to share with you the latest innovations, breakthroughs, and insights of the department. Our department is committed to advancing scientific knowledge, fostering interdisciplinary collaborations, and preparing the next generation of chemists to tackle the world's most pressing challenges. The Department of Chemistry offers Five Year Integrated M. Sc. and Ph. D. program in Chemistry.

I invite you to explore the exciting world of chemistry with us and witness how our collective efforts are shaping the future. Together, let's ignite curiosity, inspire discovery, and make meaningful contributions to society through the transformative power of chemistry.

Dr. Naved I. Malek

Training & Placement Faculty Incharge

Greetings from T&P Faculty Coordinator for DoC, SVNIT, Surat. Our department has forged a distinguished reputation, emphasizing research, innovation, and industry relevance. Our experienced faculty not only spearhead advanced projects but also mentor students at all levels, fostering a culture of academic excellence and innovation. The Integrated M.Sc. program prioritizes practical learning, supported by modern facilities and hands-on training. Students actively pursue internships, showcasing their skills beyond academia. We invite industries, organizations, and alumni to engage in our placement drive, offering talented individuals poised for success. Best wishes to the M.Sc. 2024 batch for a rewarding placement journey.

Dr. Ketan C. Kuperkar

Newsletter Incharge

I applaud the entire team of dynamics students for bringing out this issue of our annual newsletter. Kudos to the team for their dedication in marking this newsletter's second anniversary. This issue covers the events, highlights, achievements and demographics of the departmental students and faculties. Your comments and suggestions are welcome to make the next issue of the newsletter more interactive.

ABOUT DOC FACULTIES

डॉ. स्मिता जौहरी
Dr. Smita Jauhari

Professor, Ph. D.

Date of joining: *30/11/2006*

Area of research: *Corrosion, Polymers and Wastewater treatment*

Selected Articles:

1. *Design and synthesis of novel 1, 2, 3-triazole linked hybrids: Molecular docking, MD simulation, and their antidiabetic efficacy as α-Amylase inhibitors AR Zala, HN Naik, I Ahmad, H Patel, S Jauhari, P Kumari Journal of Molecular Structure 1285, 135493*
2. *Dilip C. Kanjariya, Hem N. Naik, Meet J. Sherashiya, Yogesh T. Naliapara, Iqrar Ahmad, Harun Patel, Dhanji Rajani, Smita Jauhari "α-amylase and mycobacterium-TB H37Rv antagonistic efficacy of novel pyrazole-coumarin hybrids: An in vitro and in silico investigation", Journal of Biomolecular Structure & Dynamics (Published), IF-4.4*

Profile page : *https://www.svnit.ac.in/facup/sj.pdf*

Office email : *sj@chem.svnit.ac.in*

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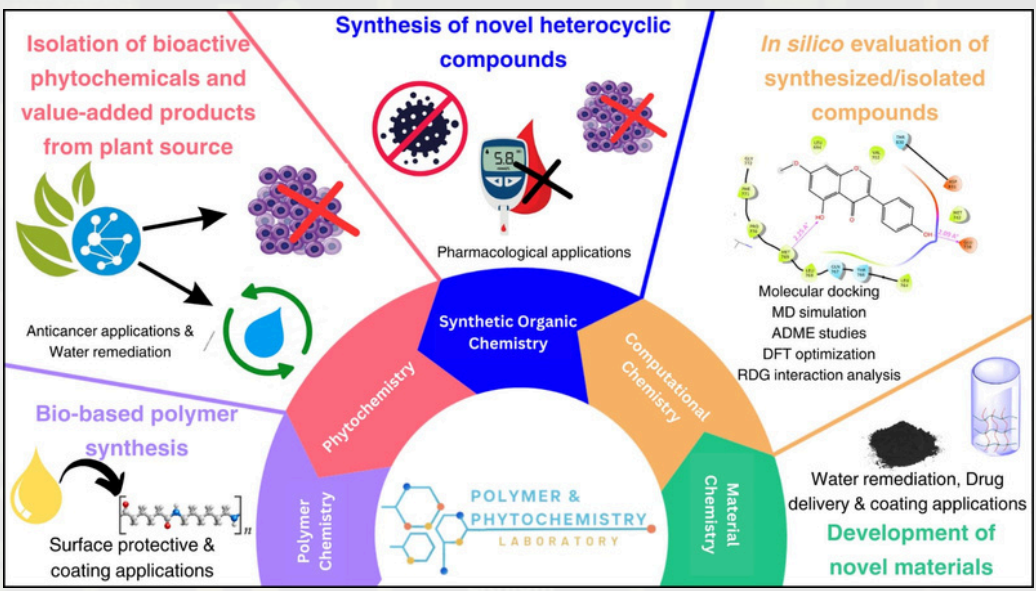

Total Publications till date: *73* ***; h-index:*** *13* ***; Patents:*** *1*

No .of Ph.D. Awarded: *7* ***; No. of Ph.D. Ongoing:*** *5*

डॉ. भरतकुमार धोलकिया
Dr. Bharatkumar Dholakiya

Professor, Ph. D.

Date of joining: *13/03/2009*

Area of research: *Polyester resin for specialty applications, Biofuels-Ultra efficient biodiesel manufacturing*

Selected Articles:

1. *Meenakshi Paswan, Swati Patel, Vimal Prajapati, Bharatkumar Z. Dholakiya, Preparation and characterization of slow-release fertilizers loaded guar gum-g-poly methylmethacrylate-cl-polylactic acid (Gg-g-PMMA-cl-PLA) hydrogel and its effect on wheat growth, International Journal of Biological Macromolecules, 253(4), 126979, 2023.*
2. *Meenakshi Paswan, Vimalkumar Prajapati, Bharatkumar Z. Dholakiya, Optimization of biodegradable cross-linked guar-gum-PLA superabsorbent hydrogel formation employing response surface methodology, International Journal of Biological Macromolecules, 223(A), 652-662, 2022.*

Profile page : *https://www.svnit.ac.in/facup/bzd.pdf* ***Office email :*** *bzdholakiya@chem.svnit.ac.in*

Google Scholar: *https://scholar.google.co.in/citations?hl=en&user=SnevgooAAAAJ*

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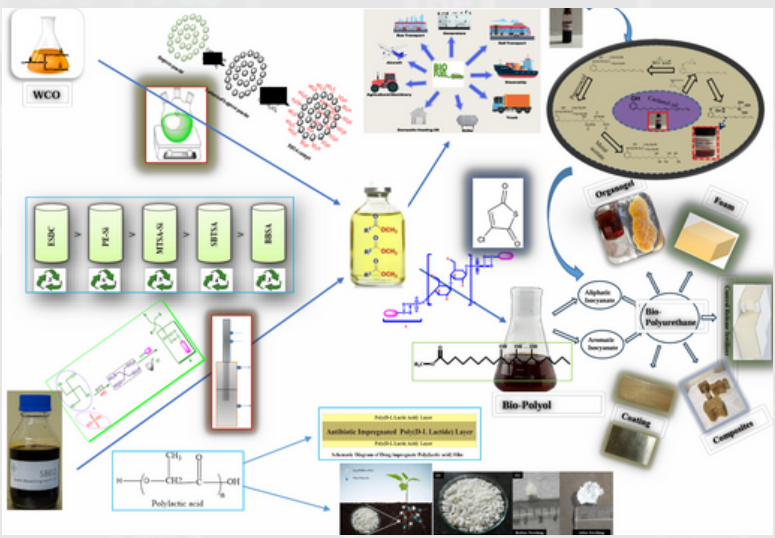

Total Publications till date: *103* ; ***h-index:*** *20* ; ***Patents:*** *8*

No. of Ph.D. Awarded: *8* ; ***No. of Ph.D. Ongoing:*** *8*

डॉ. सुरेश कुमार कैलासा
Dr. Suresh Kumar Kailasa

Associate Professor, Ph. D.

Date of joining: *27/03/2009*

Area of research: *Miniaturized Extraction Techniques and Capillary Electrophoresis, Functional Nanomaterials, MALDI- and ESI- Mass Spectrometry, Plasmonic and Fluorescent Nanosensors, Biosensing, Bioimaging and Drug Delivery, Green and Environmental Chemistry*

Selected Articles:

1. *Kailasa, S. K.; Koduru, J. R.; Desai, M, L.; Park, T. J.; Singhal, R. K.; Basu, H. Recent progress on surface chemistry of plasmonic metal nanoparticles for colorimetric assay of drugs in pharmaceutical and biological samples, TrAC Trends in Analytical Chemistry 105, 2018, 106-120.*
2. *Mehta, V, N.; Jha, S .; Basu, H.; Singhal, R. K.; Kailasa, S. K. One-step hydrothermal approach to fabricate carbon dots from apple juice for imaging of mycobacterium and fungal cell, Sensors and Actuators B: Chemical 213, 2015, 434-443.*

Profile page : *https://www.svnit.ac.in/facup/sk.pdf* ***Office email :*** *skk@chem.svnit.ac.in*

Google Scholar: *https://scholar.google.com/citations?hl=en&user=ybF8xZYAAAAJ*

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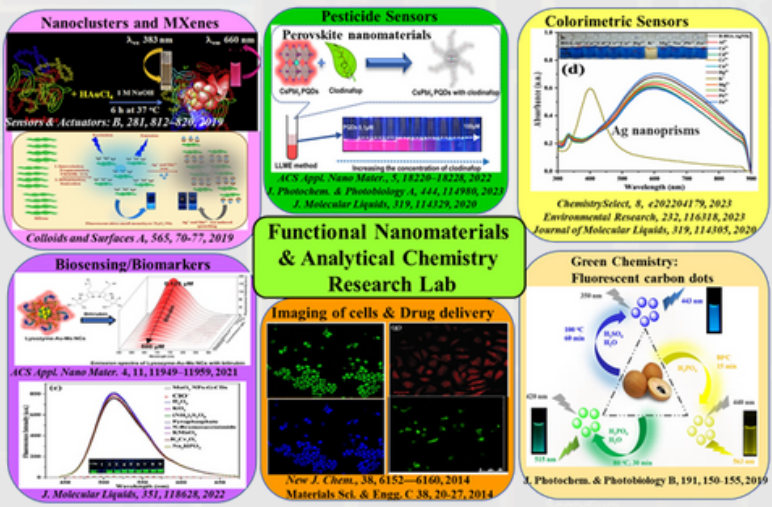

Total Publications till date: *220* ***; h-index:*** *58* ***; Patents:*** *0*

No. of Ph.D. Awarded: *7* ***; No. of Ph.D. Ongoing:*** *11*

डॉ. सुबन के.साहू
Dr. Suban K. Sahoo

Associate Professor, Ph. D.

Date of joining: *20/03/2009*

Area of research : *Inorganic, Supramolecular Chemistry and Molecular Modeling*

Selected Articles:

1. *Fluorescent ovalbumin-functionalized gold nanocluster as a highly sensitive and selective sensor for relay detection of salicylaldehyde, Hg(II) and folic acid. Rajanee Nakum , Arup K. Ghosh , Bigyan Ranjan Jali , Suban K. Sahoo*
2. *Detecting Moisture in Building Materials and Commercial Food adducts by 2-Hydroxy-naphthaldehyde Derived Chromo-Fluorogenic Chemosensor*

Profile page : *https://www.svnit.ac.in/facup/sks.pdf* ***Office email :*** *sks@chem.svnit.ac.in*

Google Scholar: *https://scholar.google.co.in/citations?hl=en&user=P7GKHgcAAAAJ*

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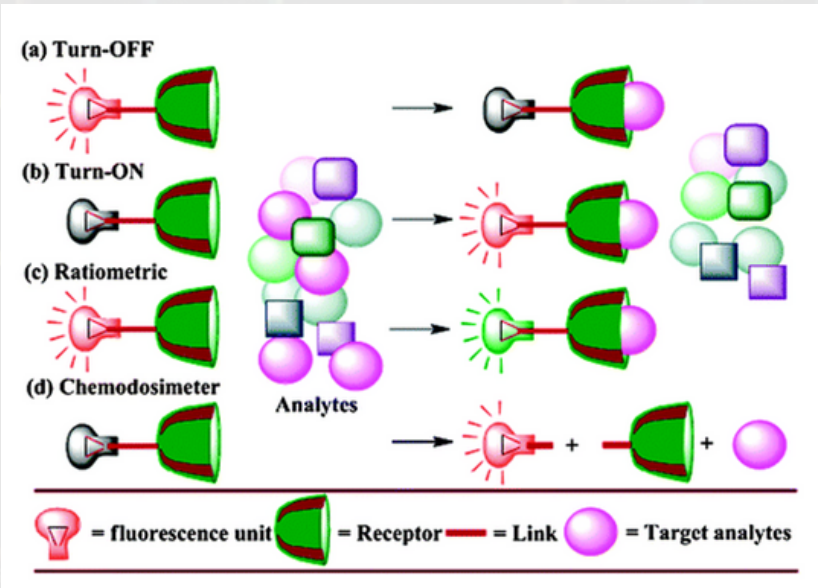

Total Publications till date: *257* ***; h-index:*** *46* ***; Patents:*** *0*

No. of Ph.D. Awarded: *6* ***; No. of Ph.D. Ongoing:*** *8*

ABOUT DOC FACULTIES

डॉ. नावेद आई. मालेक
Dr. Naved I. Malek

Associate Professor, Ph. D.

Date of joining: *08/07/2008*

Area of research : *Synthesis and Physical Properties of Polymers*

Selected Articles:

1. *Nildhara Parsana, Hiral Ukani, Omar A El Seoud, Azza Al-Ghamdi, Naved Malek, Deep eutectic solvent based self-healable, stretchable and injectable eutectogels: A versatile platform for breast cancer treatment, Chemical Engineering Journal, 488, (2024), 150703*
2. *Muzammil Kuddushi, Sargam Rajput, Ankit Shah, Jitendra Mata, Arvind Kumar, Vinod K Aswal, Omar El Seoud, Naved I. Malek, Stimuli Responsive, Self- Sustainable and Self-Healable Functionalized Hydrogel with Dual Gelation, Load-Bearing and Dye Adsorbing Properties, ACS Applied Materials & Interfaces, 11 (21) 19572-19583, 2019*

Profile page :*https://www.svnit.ac.in/facup/Dr.Naved_Malek-2019-1.pdf* ***Office email :*** *navedmalek@chem.svnit.ac.in*

Google Scholar*: https://scholar.google.co.in/citations?hl=en&user=qAFNptwAAAAJ*

Graphical Abstract:

Total Publications till date: *135* ***; h-index:*** *33* ***; Patents:*** *0*

No. of Ph.D. Awarded: *7* ***; No. of Ph.D. Ongoing:*** *6*

डॉ. कल्पना सी. महेरिया
Dr. Kalpana C. Maheria

Associate Professor, Ph. D.

Date of joining: *23/07/2007*

Area of research : *Synthesis of materials,Ion-exchange,Waste water treatment and Catalysis*

Selected Articles:

1. *Maheria, K. C.: Kozinski J.: Dalai, A. K. Esterification of levulinic acid to n-butyl levulinate over various acidic zeolites, Catalysis Letters, 2013,143, 1220-1225.*
2. *Lankapati, H.M.: Dankhara P. M.; Lathiya D. M.: Shah, B.; Chudasama U. V.; Choudhary L.; Maheria K.C. Removal of lanthanum, cerium and thorium metal ions from aqueous solution using ZrT hybrid ion exchanger, Sustainable Energy Technologies and Assessments, 2021, 47, 101415, 1-9.*

Profile page : *https://www.svnit.ac.in/facup/kcm.pdf* ***Office email :*** *kcm@chem.svnit.ac.in*

Google Scholar: *https://scholar.google.com/citations?hl=en&user=vBbKsa0AAAAJ*

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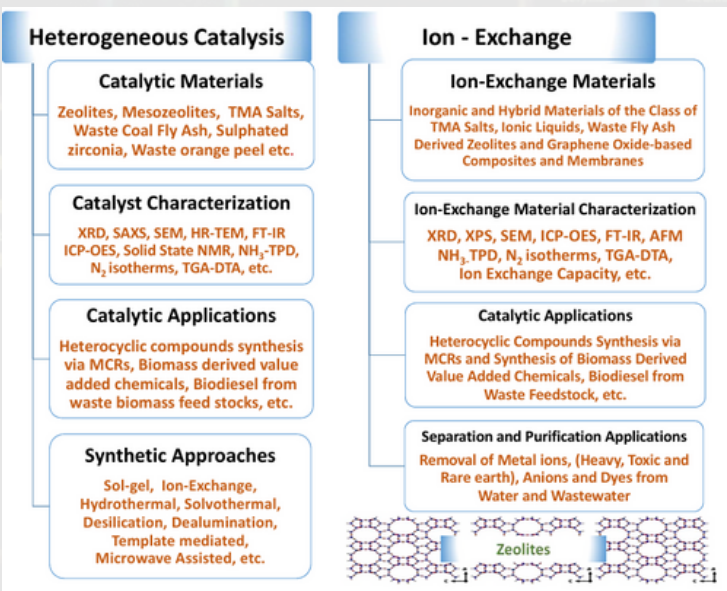

Total Publications till date: *54* ***; h-index:*** *21* ***; Patents:*** *2*

No. of Ph.D. Awarded: *9* ***; No. of Ph.D. Ongoing:*** *6*

डॉ. प्रेमलता कुमारी
Dr. Premlata Kumari

Associate Professor, Ph. D.

Date of joining: *12/07/2006*

Area of research : *Carbohydrate Chemistry,Synthetic chemistry, Wastewater treatment and Drug delivery system*

Selected Articles:

1. *Patel R.V., Patel P.K., Kumari P., Rajani D. P., Chikhalia K.H. Synthesis of benzimidazolyl-1,3,4-oxadiazol-2ylthio-N-phenyl (benzothiazolyl) acetamides as antibacterial, antifungal and antituberculosis agents. Eur. J. Med. Chem. 2012,53, 41-45.*
2. *Zala, A. R., Rajani, D. P., Ahmad, I., Patel, H.,Kumari, P. Synthesis, characterization, molecular dynamic simulation, and biological assessment of cinnamates linked to imidazole/benzimidazole as a CYP51 inhibitor. Journal of Biomolecular Structure and Dynamics, 2023 41(21), 11518–1153*

Profile page : *https://www.svnit.ac.in/facup/PLCV%20Aug2020.pdf* ***Office email :*** *pl@chem.svnit.ac.in*

Google Scholar: *https://scholar.google.com/citations?hl=en&user=8eqdB_oAAAAJ*

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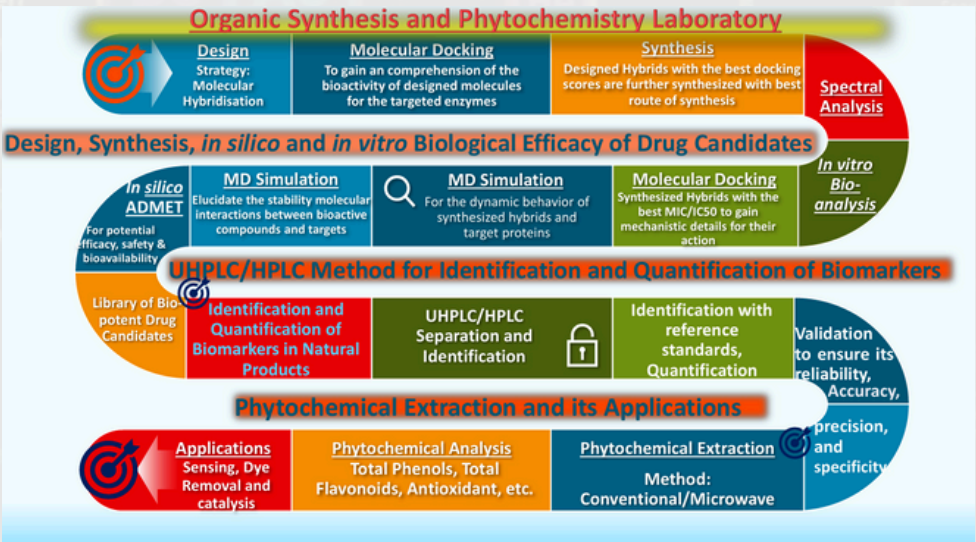

Total Publications till date: *75* ***; h-index:*** *24* ***; Patents:*** *1*

No. of Ph.D. Awarded: *6* ***; No. of Ph.D. Ongoing:*** *6*

डॉ. केतन सी.कुपेरकर
Dr. Ketan C. Kuperkar

Associate Professor, Ph. D.

Date of joining: *02/09/2013*

Area of research : *Surfactant Science, Polymer Chemistry, Materials Science, Soft Condensed Matter, Computational Chemistry*

Selected Articles:

1. *Rationalizing design of Pluronics-surfactant mixed micelles through molecular simulations and experiments. D. Patel, G. Pérez-Sánchez, M. Jorge, D. Ray, V. K. Aswal, K. Kuperkar, J. A. P. Coutinho, P. Bahadur,Langmuir, 2023, 39, 2692−2709.*
2. *Salt induced micellization conduct in PEO–PPO–PEO-based block copolymers: a thermo-responsive approach. N. Tripathi, D. Ray, V.K. Aswal, K. Kuperkar, P. Bahadur. Soft Matter, 2023,19(37), 7227-7244.*

Profile page : *https://www.svnit.ac.in/facup/kck.pdf*

Office email : *kck@chem.svnit.ac.in*

Google Scholar: *https://scholar.google.com/citations?hl=en&user=nCwVptMAAAAJ*

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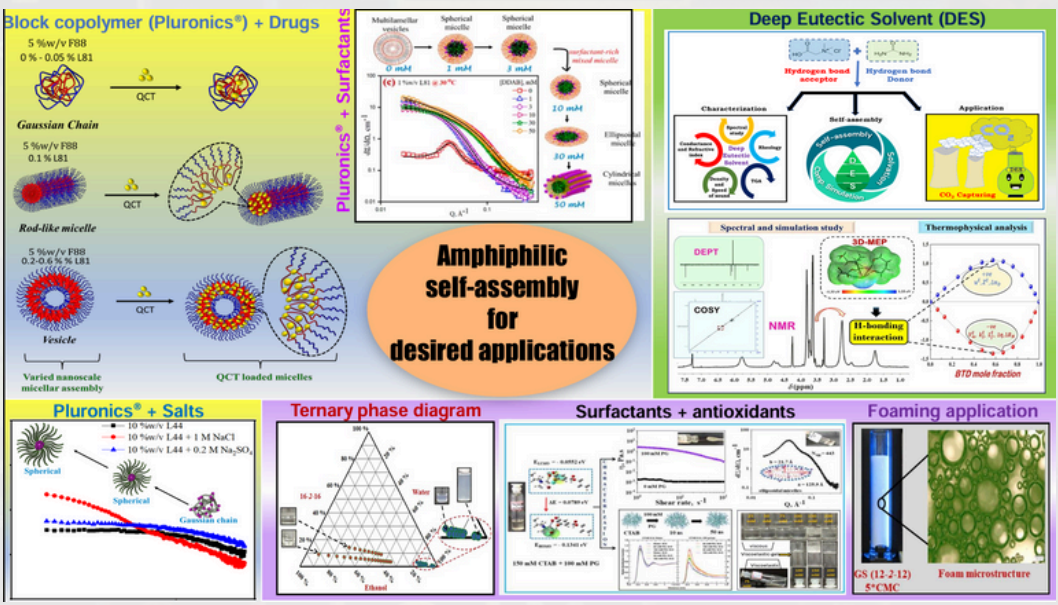

Total Publications till date: *77* ***; h-index:*** *21* ***; Patents:*** *0*

No. of Ph.D. Awarded: *6* ***; No. of Ph.D. Ongoing:*** *8*

डॉ. ऋतंभरा जांगिड़
Dr. Ritambhara Jangir

Assistant Professor, Ph. D.

Date of joining: *30/09/2019*

Area of research : *Development of Covalent-organic Frameworks (COFs), Metal-organic Frameworks (MOFs), Polyoxometalates and Organophosphates, Fabrication of thin membranes using COFs and MOFs for waste water treatment, Biomimicking of enzymes,Crystal Engineering, Development of new catalysts for various organic synthesis reactions.*

Selected Articles:

1. *Kumar, S.; Dholakiya, B. Z.; Jangir, R.* Covalent Organic Framework Impregnated with Silver and Copper Nanoparticles: An Advanced Approach for Catalytic Degradation of Organic Pollutants in Wastewater. ACS Appl. Mater. Interfaces 2024, 16, 1, 1553–1563*
2. *Maru, K.; Kalla, S.; Jangir, R.* Efficient Dye Extraction from Wastewater Using Indium-MOF-Immobilized Polyvinylidene Fluoride Membranes with Selective Filtration for Enhanced Remediation. Langmuir 2024, 40, 15, 8144–8161.*

Profile page : *https://www.svnit.ac.in/facup/RitambharaCV.pdf* ***Office email :*** *ritambhara.jangir@chem.svnit.ac.in*

Google Scholar: *https://scholar.google.com/citations?hl=en&user=yvpJeKcAAAAJ*

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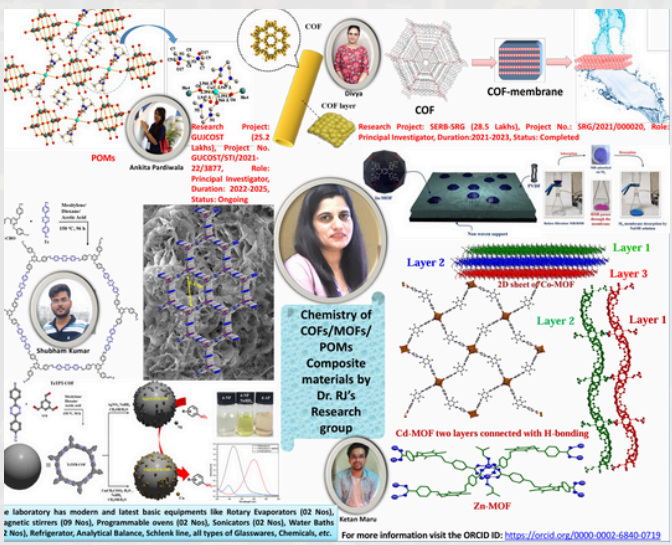

Total Publications till date: *25* ***; h-index:*** *7* ***; Patents:*** *0*

No. of Ph.D. Awarded: *0* ***; No. of Ph.D. Ongoing:*** *4*

डॉ. तोगती नवीन
Dr. Togati Naveen

Assistant Professor, Ph. D.

Date of joining: *30/09/2019*

Area of research : *Metal Catalyzed C-H Functionalization Using Transient Directing Groups,Heterocycles Synthesis via C-H Functionalization, Metal Catalyzed Functionalization of Unactivated sp3 C-H Bonds, Photoredox Catalysis,Hypervalent Iodine Chemistry, Metal free C-H Functionalization.*

Selected Articles:

1. *A. Ramani, R. S. Patil, H. Bhukya and Togati Naveen* Asian J. Org. Chem., 2023, DOI: https://doi.org/10.1002/ajoc.202300336..*
2. *Arti Ramani, Bhargav Desai, B. Z. Dholakiya and Togati Naveen* Chem. Commun., 2022, 58, 7850-7873.*

Profile page : *https://www.svnit.ac.in/facup/Naveen%20CV%20Sept%201.pdf* ***Office email*** *t.naveen@chem.svnit.ac.in*

Google Scholar: *https://scholar.google.com/citations?hl=en&user=cQzxV5kAAAAJ*

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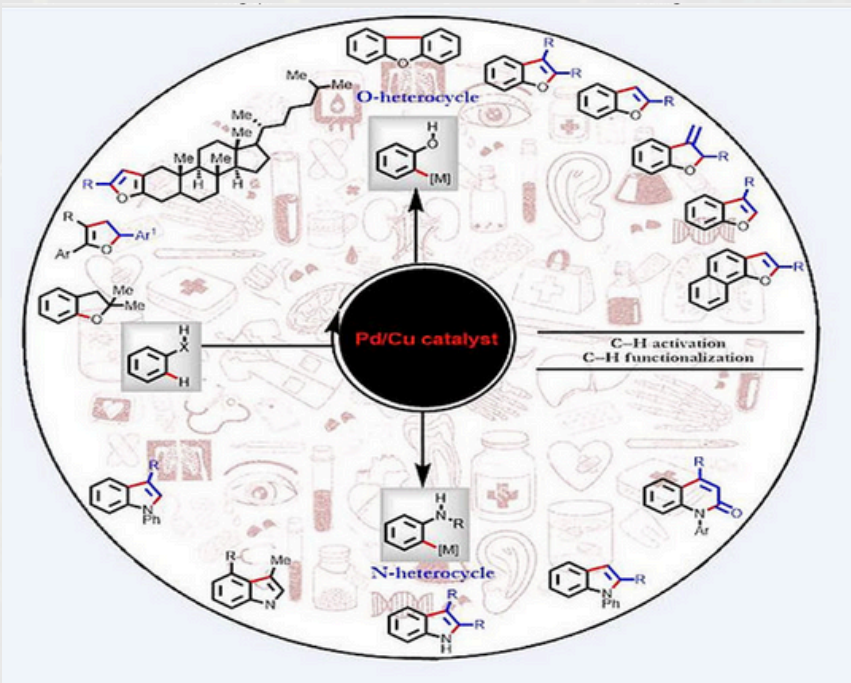

Total Publications till date: *33* ***; h-index:*** *17* ***; Patents:*** *0*

No. of Ph.D. Awarded: *0* ***; No. of Ph.D. Ongoing:*** *5*

डॉ. ए. सिवैया
Dr. A. Sivaiah

Assistant Professor, Ph. D.

Date of joining: *05/03/2021*

Area of research : *Design and Synthesis of Molecular probes,Bioinorganic Chemistry, Supramolecular Chemistry, Nano/Bio Sensors and Biomaterial applications*

Selected Articles:

1. *Maheshkumar, P.; Nidhi, P.; Sarita, K.; Sateesh, B.; Sivaiah, A. Synthesis and characterization of a rhodamine derivative as a selective switch-on fluorescent sensor for Cu2+ ions in aqueous PBS buffer and living cells. Sens. Diagn., 2024, 3, 412–420.*
2. *Ravinkumar, V.; Nidhi, P.; Sateesh, B.; Sivaiah, A. Imino Phenolic Benzene-1,3,5-tricarbohydrazide Conjugate as a AIEgen-Based Fluorescent Probe for the Detection and Bioimaging of Lipid Droplets in Living Cells. ChemistrySelect 2023, 8, e202303697*

Profile page : *https://ravinsvaland.wixsite.com/my-site* ***Office email :*** *areti@chem.svnit.ac.in*

Google Scholar: *https://scholar.google.com/citations?hl=en&user=SNILSK8AAAAJ*

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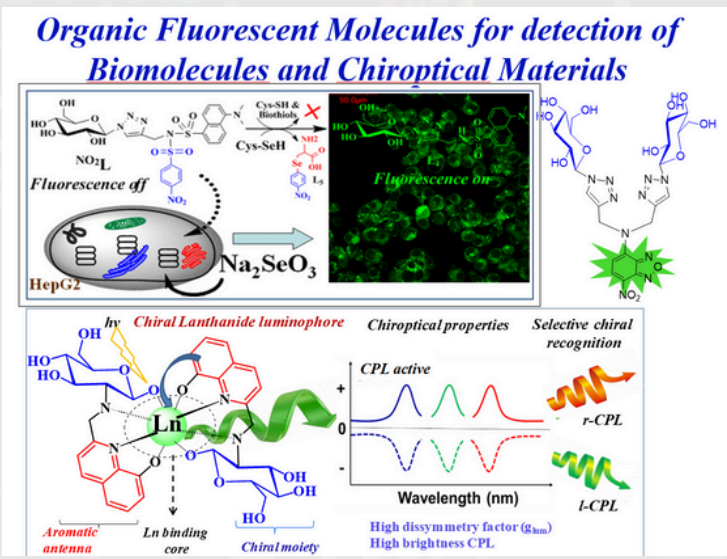

Total Publications till date: *22* ***; h-index:*** *10* ***; Patents:*** *1*

No. of Ph.D. Awarded: *0* ***; No. of Ph.D. Ongoing:*** *2*

डॉ. सुब्रत दत्ता
Dr. Subrata Dutta

Assistant Professor, Ph. D.

Date of joining: *13/05/2021*

Area of research : *Synthetic organic chemistry, fluorescence dye for bioimaging applications, DNA and peptide-based catalysis*

Selected Articles:

1. *Dutta,S.; Rühle,J.; Schikora,M.; Deussner-Helfmann,N.; Heilemann,M,; Zatsepin,T.; Duchstein,P,; Zahn,D.; Knör,G.; Mokhir,A. Red light-triggered photoreduction on a nucleic acid template. Chemical Communications, 2020, 56, 10026-10029.*
2. *Dutta,S.; Foley, A.R.; Warner, C.J.A.; Zhang,X.; Rolandi,M.; Abrams,B.; Raskatov. J. A. Suppression of Oligomer Formation and Formation of Non-Toxic Fibrils upon Addition of Mirror-Image Aβ42 to the Natural l-Enantiomer. Angewandte Chemie (International ed.), 2017, 56, 11506 - 11510.*

Profile page:*https://www.svnit.ac.in/facup/Subrata%20Dutta%20CV.pdf* ***Office email :*** *subrata.d@chem.svnit.ac.in*

Google Scholar: *https://scholar.google.com/citations?hl=en&user=29rBYwUAAAAJ*

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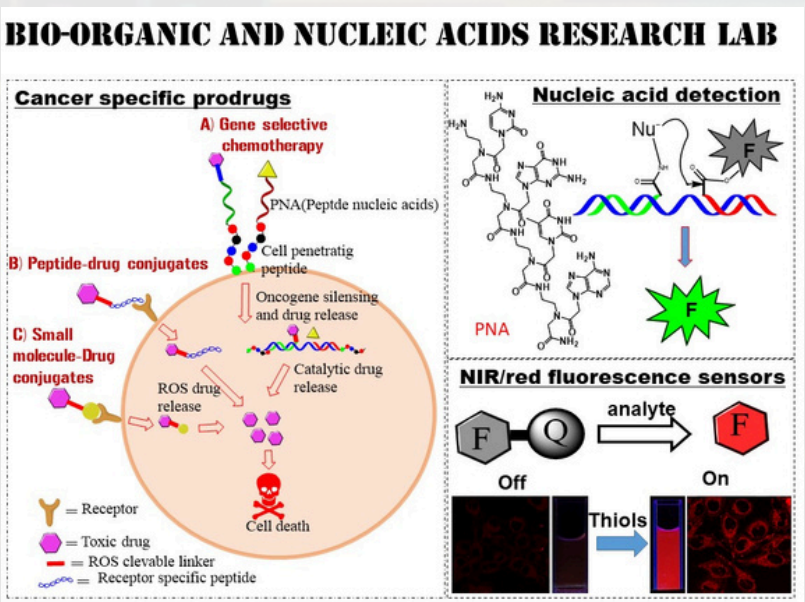

Total Publications till date: *2* ***; h-index:*** *9* ***; Patents:*** *0*

No. of Ph.D. Awarded: *0* ***; No. of Ph.D. Ongoing:*** *3*

डॉ. लता राणा
Dr. Lata Rana

Assistant Professor, Ph. D.

Date of joining: *09/04/2021*

Area of research : *Synthetic Inorganic chemistry,Catalysis (Homogeneous and Heterogeneous), Bioinorganic Chemistry*

Selected Articles:

1. *Rana; L., Dheeraj, Hundal; G. New Bis[cis-{MoO2}] complexes with dihydrazone ligands: Synthesis, characterization, theoretical investigation and their peroxidase mimicking activity, Dalton Trans., 2023, 52, 5616–5631*
2. *Dheeraj, Rana; L., Hundal; G. New bis[MoO2] and [MoO(O2)] compounds: an artificial enzyme withperoxidase activity against o-phenylenediamine and dopamine, J. Inorg. Biochem., 2023, 244, 112231.*

Profile page : *https://www.svnit.ac.in/facup/Dr%20Lata%20CV.pdf* ***Office email :*** *latarana@chem.svnit.ac.in*

Google Scholar: *https://scholar.google.com/citations?hl=en&user=ZpI_928AAAAJ*

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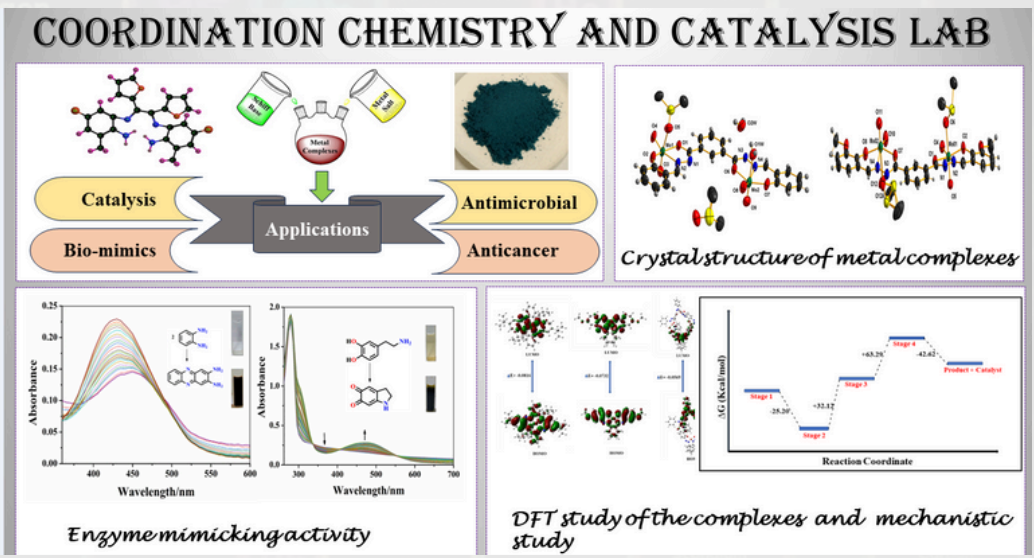


Total Publications till date: *5* ***; h-index:*** *6* ***; Patents:*** *0*

No. of Ph.D. Awarded: *0* ***; No. of Ph.D. Ongoing:*** *2*

डॉ. अरूप कुमार घोष
Dr. Arup Kumar Ghosh

Assistant Professor, Ph. D.

Date of joining: *21/04/2021*

Area of research: *Environmental Chemistry, Computational Chemistry, Instrumentation, Spectroscopic Analysis, Atmospheric Chemistry*

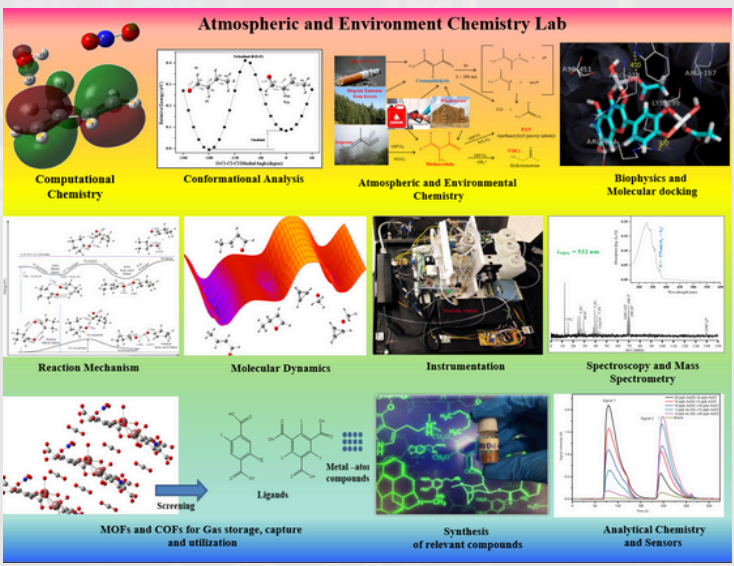
Selected Articles:

1. *Chatterjee, P.; Ghosh, A.K.; Samanta, M.; Chakraborty, T. Barrierless Proton Transfer in the Weak C-H…O Hydrogen Bonded Methacrolein Dimer upon Nonresonant Multiphoton Ionization in the Gas Phase. J. Chem. Phys. A 2018, 122(25), 5563–5573.*
2. *Vegad, Y., Vardhan, S., Ghosh, A.K., Jali, B.R., Sahoo, S.K., Folic Acid Detection Using β-Cyclodextrin-Functionalized Copper Nanoclusters and Vitamin B6 Cofactor Pyridoxal. ACS Appl. Nano Mater., 2024,7(4), 4173–4181.*

Profile page : *https://www.svnit.ac.in/facup/CV_akg.pdf* ***Office email :*** *akg@chem.svnit.ac.in*

Google Scholar: *https://scholar.google.com/citations?hl=en&user=OW3OBRkAAAAJ*

Graphical Abstract:



Total Publications till date: *4* ***; h-index:*** *6* ***; Patents:*** *0*

No. of Ph.D. Awarded: *0* ***; No. of Ph.D. Ongoing:*** *2*

Ph.D. Awarded Students

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Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Passing Year
	Dr. Borse Shraddha Kishor	shraddhaborse7@gmail.com	Design and synthesis of metal nanoclusters for detection of drugs and biomarkers	Dr. Suresh Kumar (Prof. Z. V. P. Murthy)	2023
	Dr. Monika Jain	monikajain536@gmail.com	Stimuli Responsive Microstructural Aggregates of biocompatible Surface Active ionic Liquids as New Age Drug Carrier	Dr. Suresh Kumar Kailasa	2023
	Dr. Henil Lankapati	lankapatihenil@gmail.com	Synthesis, characteristics of inorganic/hybrid materials and their environmental applications	Dr. Kalpana Maheria	2023
	Dr. Ajayrajsinh Zala	ajayrajsinhz2210@gmail.com	Synthesis and biological evaluation of new bioactive compounds	Dr. Premlata Kumari	2023
	Dr. Divya K. Patel	Pateldivya16496pd@gmail.com	Influence of additives on the solution and micellization behavior of block copolymers.	Dr. Ketan C. Kuperkar	2023
	Dr. Vinod Kumar	Vinodkk088@gmail.com	Self-assembly and micellar transition induced in cationic surfactant-additives system.	Dr. Ketan C. Kuperkar	2023
	Dr. Jyotsnamayee Nayak	nayakjyotsna980@gmail.com	Synthesis of smart biocompatible and biodegradable Nanoparticle for targeted drug delivery in anti-cancer treatment	Dr. Suban K. Sahoo	2023
	Dr. Anuj Kumar Saini	anuj.saini0308@gmail.com	Vitamin B6 cofactors and salicylaldehyde conjugated fluorescent polymeric nanoparticles for sensing applications	Dr. Suban K. Sahoo	2023

Ph.D. Awarded Students

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Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Passing Year
	Dr. Sheshuvardhan Pothabathula	sheshu.target@gmail.com	Computational studies on repositioning phytochemicals against SARS-CoV-2 and Monkeypox.	Dr. Suban K. Sahoo	2023
	Dr. Sonkeshriya Dhanshri	dhanshri.svnit@gmail.com	Vitamin B6 cofactors conjugated fluorescent turn-on probes for detecting alkaline phosphatase activity and albumins.	Dr. Suban K. Sahoo	2023
	Dr. Monika Jain	monikajain536@gmail.com	Stimuli Responsive Microstructural Aggregates of biocompatible Surface Active ionic Liquids as New Age Drug Carrier	Dr. Suresh Kumar Kailasa	2023
	Dr. Kateshiya Mehulkumar Rameshbhai	kateshiya88@gmail.com	Surface Modifications of Nanomaterials Synthesis Characterization and Analytical Applications	Dr. Suresh Kumar (Dr. Naved I. Malek)	2022
	Dr. Dhruvi Patel	Pateldivya16496pd@gmail.com	Nanoscale self-assembly and aggregation engineered using block copolymers for targeted applications.	Dr. Ketan C. Kuperkar	2022
	Dr. Anil Kumar Jangir	Janilkumar13@gmail.com	Preparation, Characterization, and applications of pure and cosolvent-modified Deep Eutectic Solvents. .	Dr. Ketan C. Kuperkar	2022
	Dr. Dhara Morawala	surtidhara@gmail.com	Synthesis, characterization, and applications of composites of zeolites	Dr. Kalpana Maheria	2021
	Dr. Muzammil Kuddushi	muzammilvohra34@gmail.com	Stimuli Responsive Ionic Liquids Based Low Molecular Weight Gelators For biological and Environmental Applications	Dr. Naved Malek I.	2021

Ph.D. Awarded Students

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Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Passing Year
	Dr. Ankit Shah	ias.shah2@gmail.com	*Ionic liquid based Simple and Complex Coacervates: Microreactors to Sequester Dyes and Curcumin from Aqueous Medium*	*Dr. Naved Malek I*	*2021*
	Dr. Desai Mittal L.	dmittal721@gmail.com	*One-step Synthetic Approaches for Preparation of Fluorescent Hybrid Nanomaterials Characterization and Applications*	*Dr. Suresh Kumar Kailasa*	*2020*
	Dr. Dharmesh Lathiya	lathiya_dharmesh@yahoo.com	*Biodiesel production from maize acid oil feedstock using various solid acid catalysts*	*Dr. Kalpana Maheria (Prof. D. V. Bhatt)*	*2020*
	Dr. Jenifer Gabla	jenifergabla@gmail.com	*Green synthesis of biologically active drug like scaffolds using microporous and mesoporous zeolites via multi component reactions*	*Dr. Kalpana Maheria*	*2020*
	Dr. Khushbu Patel	c.khushbu10@gmail.com	*Design of hybrid polymeric surface with anti-biofouling properties and their application in biomedicine and environment*	*Dr. Suban K. Sahoo*	*2020*
	Dr. Azazahemad A. Kureshi	kureshi.azaz90@gmail.com	*Phytochemical investigation of Garcinia species for cytotoxic properties*	*Dr. Premlata Kumari*	*2020*
	Dr. Sonia Lakhotia	lakhotiasonia@gmail.com	*Preparation and characterization of thin-film nanocomposite (TFN) membrane and its application for water treatment*	*Dr. Premlata Kumari*	*2020*
	Dr. Bhamore Jigna Rajeshkumar	jignabhamore@gmail.com	*Synthesis and characterization of ultra-small fluorescent nanoparticles for chemical sensing and bioimaging applications*	*Dr. Suresh Kumar*	*2019*

Ph.D. Awarded Students

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Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Passing Year
	Dr. Amit G. Shirke	Amitshirke50@gmail.com	*Vegetable oil-based polymer synthesis with detailed characterization and their applications.*	*Dr. Ketan C. Kuperkar (Dr. Bharatkumar Dholakiya)*	*2019*
	Dr. Bharatkumar B. Kanoje	Bharatkanoje4@gmail.com	*Micellization behaviour of Conventional and Dimeric Surfactant in aqueous solution system: Characterization and their Applications.*	*Dr. Ketan C. Kuperkar (Dr. Jigisha Kamal Parikh)*	*2019*
	Dr. Nimisha Singh	Nimisha.singh01@gmail.com	*Biocompatible nanoparticle for cancer drug and therapeutics by facilitating Nitric oxide release*	*Dr. Suban K. Sahoo*	*2019*
	Dr. Sargam Rajput	sargamrajput13@gmail.com	*Modulating Interfacial and Micellar Properties of the Surfactants through External Additives Leading to Various nano-Aggregates*	*Dr. Naved Malek I.*	*2019*
	Dr. Mehul L. Savaliya	msmehulsavaliya@gmail.com	*Eco-friendly solid reinforced heterogeneous acid & alkali catalysts for the preparation of biodiesel using different feedstocks*	*Dr. Bharatkumar Dholakiya*	*2017*
	Dr. Jayanti S. Makasana	jaymakasana@gmail.com	*Phytochemical Investigations of Clitoria Ternatea (L.), Aegle marmelos (L.) Corr. and Centella Asiatica (L.) Urb.: Important Medicinal Plants Used in Indian Traditional Medicine System*	*Dr. Bharatkumar Dholakiya (Dr. Narendra Gajbhiye)*	*2017*
	Dr. Jigneshkumar V. Rohit	jvrsvnit@gmail.com	*Molecular Assembly of Dithocarbmate Derivatives on Metal Ag and Au Nanoparticles for Colorimetric Detection of Pesticides*	*Dr. Suresh Kumar*	*2017*
	Dr. Manoj Rathod	manoj.rathod13@gmail.com	*Catalytic synthesis of biologically active compounds through multicomponent reaction*	*Dr. Kalpana Maheria (Dr. Suban K. Sahoo)*	*2017*

Ph.D. Awarded Students

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Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Passing Year
	Dr. Yogeshwar Suryawanshi	yogeshwarsuryawanshi@gmail.com	*Synthesis of Noble Nanoparticles by Microwave Irradiated Solvothermal Technique and their Catalytic Applications*	*Dr. Smita Jauhari (Dr. Mousumi Chakraborty (DoChE))*	*2017*
	Dr. Ashish Raychura	ashish.raychura@yahoo.com	*A Renewable Approach Towards the Development of Wood Protective Polyurethane Coating from Vegetable Oil- Based Polyols*	*Dr. Smita Jauhari (Dr. Bharat Dholakiya)*	*2017*
	Dr. Utkarsh More	utkarshumore@gmail.com	*Studies on the Micellar Properties of Cationic Gemini of Cationic Gemini Surfactants in the presence of 1-Alkyl-3-methylimidazoloium bromide Ionic Liquids*	*Dr. Naved Malek I*	*2017*
	Dr. Zuber Vaid	zubervaid@yahoo.in	*Aggregation behavior of 1-Alkyl-3-Vinylimidazolium Bromide Ionic Liquids In Aqueous Solution and Their Micellar Transition in the Presence of Different Additives*	*Dr. Naved Malek I.*	*2017*
	Dr. Vaibhavkumar N. Mehta	vai.mehta76@gmail.com	*Functionalization of dithiocarbamate derivatives on metallic nanoparticles (Au and Ag) for colorimetric sensing of metal ions and green synthetic approach for preparation of carbon dots and their imaging applications*	*Dr. Suresh Kumar*	*2016*
	Dr. Gopal Chawada	gopalchawada.svnit@gmail.com	*Environmentally Friendly Organic-Inorganic Hybrid Coatings for Corrosion Protection of Metal Alloys*	*Dr. Bharatkumar Dholakiya (Prof. V. M. Mannari)*	*2015*
	Dr. Darshak Bhatt	darshakbhatt13@gmail.com	*Studies on ionic liquids – surfactants interaction phenomena in aqueous media and their applications*	*Dr. Kalpana C. Maheria (Dr. Jigisha Parikh)*	*2015*
	Dr. Karuna A. Rawat	karuna123.rawat@gmail.com	*Organic framework on metal Au and Ag nanoparticles for colorimetric sensing of biomolecules and drugs*	*Dr. Suresh Kumar*	*2015*

Ph.D. Awarded Students

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Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Passing Year
	Dr. Amit B. Patel	amit.svnit10@gmail.com	*Chemical strategies towards the synthesis of rationally designed heterocycles and their pharmacological evaluations*	*Dr. Premlata Kumari*	*2015*
	Dr. Ami Vyas	ami_bhatt@yahoo.co.in	*Adsorptive Studies on Palladium (II) and Platinum (IV) using Rice Husk and its Derivatives*	*Dr. Smita Jauhari (Dr. Z. V. P. Murthy (DoChE))*	*2015*
	Dr. Zubin Master	zrm17979@yahoo.com	*Thermodynamics and Transport Properties of Binary Liquid Mixtures Including Ionic Liquids*	*Dr. Naved Malek I.*	*2015*
	Dr. Bhusan Choubisa	byc.1986@gmail.com	*Microbial Production of Lactic acid, Polylactic Acid (PLA) Synthesis and Its Application*	*Dr. Bharatkumar Dholakiya (Dr. Mayank R. Patel)*	*2014*
	Dr. Mahesh H. Malani	maheshmalani.svnit@gmail.com	*Studies on Design, Synthesis and Biological Evaluation of Carbazole and Tetrazole based Heterocycles*	*Dr. Bharatkumar Dholakiya*	*2014*
	Dr. Bhavesh D. Dhorajiya	bhavesh.orgchem@gmail.com	*Studies on Design, Synthesis and Biological Evaluation of Barbiturates and Thiobarbiturates Based Heterocyclic Scaffold*	*Dr. Bharatkumar Dholakiya*	*2014*
	Dr. Tejas S. Gandhi	tejasgandhi1401@gmail.com	*Synthesis and Characterization of Sustainable Rigid Polyurethane Foam from Cashew Nut Shell Liquid*	*Dr. Bharatkumar Dholakiya (Dr. Mayank R. Patel)*	*2014*
	Dr. Krunal Shah	reach.krunal@gmail.com	*Silica based solid acid catalysts for biodiesel synthesis from various oil feedstocks*	*Dr. Kalpana Maheria (Dr. Jigisha Parikh)*	*2014*

Ph.D. Awarded Students

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Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Passing Year
	Dr. Bhupendra Mistry	bhupendra.mistry84@gmail.com	*Synthesis, Characterization and Evaluation of Newly Synthesized Schiff Bases as Acid Corrosion Inhibitors for Mild Steel in 1N HCl*	*Dr. Smita Jauhari*	*2014*
	Dr. Aniruddhasinh Rana	aniruddha.m.rana@gmail.com	*Study on Synthesis and Biological Evaluation of Quinazoline- 4(3H)- one, Thiazolidine- 4- one, Rhodanine and S- triazine based Derivatives*	*Dr. Smita Jauhari (Prof. K. R. Desai (VNSGU))*	*2014*
	Dr. Nikhil Parekh	nikhil_svnit123@yahoo.com	*Synthesis of Quinoline, Benzoquinoline an Quinazoline based heterocyclic monoazo dyes and their applications*	*Dr. Kalpana Maheria*	*2013*
	Dr. Sunil Mistry	drsunilmistry@gmail.com	*Zeolite Catalyzed Multicomponent Reactions for the Synthesis of Biologically Active Compounds*	*Dr. Kalpana Maheria*	*2013*
	Dr. Divyesh K. Patel	dkpatel11984@gmail.com	*Antimicrobial and antimycobacterial studies of newly synthesized s-triazine and coumarin analogs*	*Dr. Premlata Kumari*	*2013*
	Dr. Medha Joshi	mbjoshi0316@gmail.com	*Synthesis, Characterization and Material Application of Polyureas, Polyurethanes and Poly(Urea-Urethane)s.*	*Dr. Smita Jauhari (Prof. K. R. Desai (VNSGU))*	*2013*
	Dr. Rahul Patel	rahul.svnit11@gmail.com	*Studies of in vitro bioassay of newly synthesized 1,3,5-triazine and 1,3,4-oxadiazole derivatives*	*Dr. Premlata Kumari*	*2011*
	Dr. Niketan Patel	niketan.patel@kaust.edu.sa	*Effect some Herbal Extracts on Acid Corrosion of Mild Steel Study by Gravimetric, D.C. electrochemical and A.C. Impedance Methods*	*Dr. Smita Jauhari*	*2011*

Ph.D. Ongoing Students

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Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Status
	Hem N. Naik	hem7896@gmail.com	*Extraction, Isolation of Phytochemicals from plants of family Fabaceae and its Pharmacological activity*	*Dr. Smita Jauhari Dr. Ramavatar Meena (CSIR-CSMCRI))*	*Ongoing*
	Dilip C. Kanjariya	kdilip3611@gmail.com	*Synthesis and investigation of novel Heterocycles and its Pharmacological application*	*Dr. Smita Jauhari*	*Ongoing*
	Bhadresh K. Chabhadiya	cbk01101996@gmail.com	*Synthesis, characterization and application of Quinoline containing Heterocyclic scaffolds*	*Dr. Smita Jauhari*	*Ongoing*
	Bhavika Mohite	bhavikamohite814@gmail.com	*Synthesis and investigation of triazole based heterocyclic compounds*	*Dr. Smita Jauhari*	*Ongoing*
	Dhruv Naik	dhruvnaik070@gmail.com	*Indol based Hetrocycles, their sysnthesis, and biological significance*	*Dr. Smita Jauhari*	*Ongoing*
	Meenakshi B. Paswan	meenakshipaswan2411@gmail.com	*Microbial synthesis of lactic acid for polylactic acid-based formulation in biomedical and agriculture applications.*	*Dr. Bharatkumar Z. Dholakiya*	*Synopsis Submitted*
	Nilam R. Gamit	nilamgamit00@gmail.com	*Synthesis of Polyurethane from Cardanol: a bio-based building block for sustainable construction applications.*	*Dr. Bharatkumar Z. Dholakiya*	*Pre-synopsis Submitted*
	Gadhiya Chirag Nareshbhai	chiraggadhiya1234@gmail.com	*Synthesis and Characterization of bio-based Polyurethane from vegetable oil and its Applications*	*Dr. Bharatkumar Z. Dholakiya*	*Ongoing*

Ph.D. Ongoing Students

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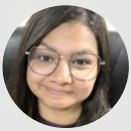
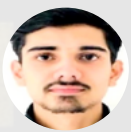
Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Status
	Nidhi G. Savani	nidhisavani727@gmail.com	*Tung oil derived bio polyurethane for its different applications.*	*Dr. Bharatkumar Z. Dholakiya (Dr. Togati Naveen)*	*Ongoing*
	Mansi Mistry	mansimistry999@gmail.com	*Bio-Polyurethane derived from Hemp seed oil for diverse applications.*	*Dr. Bharatkumar Z. Dholakiya (Dr. Vimalkumar Prajapati)*	*Ongoing*
	Busa Hiren Mansukhbhai	hirenbusa111@gmail.com	*Bio-lubricants: Synthesis, Properties and Applications.*	*Dr. Bharatkumar Z. Dholakiya*	*Ongoing*
	Rutvik Divyesh Joshi	rutujoshi429@gmail.com	*Synthesis of Polyurethane from extracted Tobacco Seed Oil using heterogeneous acid catalyst and its application.*	*Dr. Bharatkumar Z. Dholakiya (Dr. Naved I. Malek)*	*Ongoing*
	Ghonia Jay Rameshbhai	ghoniajay@gmail.com	*Synthesis and Applications of Imidazole derivatives.*	*Dr. Bharatkumar Z. Dholakiya (Dr. Jigisha K. Parikh)*	*Ongoing*
	Dharaben Jayeshbhai Joshi	joshid0825@gmail.com	*Synthesis of Borophene, MXenes, Metal Oxide and Metal Nanostructures for Fluorescence Sensing Applications*	*Dr. Suresh Kumar (Dr. Naved I. Malek)*	*Thesis submitted*
	Ghinaiya Nirav Vajubhai	ghinaiyan@gmail.com	*Synthesis and characterization of fluorescent nanomaterial (perovskite, MoOx, and Cu) for analytical and bioanalytical applications*	*Dr. Suresh Kumar*	*Thesis submitted*
	Foziya Yusuf Vadia	foziyavadia123@gmail.com	*Studies on sustainable approaches for the fabrication of carbon dots for pesticides and metal ions sensing applications*	*Dr. Suresh Kumar (Dr. Naved I. Malek)*	*Synopsis submitted*

Ph.D. Ongoing Students

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Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Status
	Vibhuti Sadhu	sadhuvibhuti@gmail.com	*Development of analytical methods with 0D fluorescent nanomaterials for sensing applications*	*Dr. Suresh Kumar*	*Synopsis submitted*
	Parini Surti	parini.surti@gmail.com	*Microbial fuel cells technology for sustainable textile effluent treatment*	*Dr. Suresh Kumar (Dr. A. K. Mungray)*	*On-going*
	Mayur Patel	mayurmp.2812@gmail.com	*Novel nanostructure materials and their analytical applications*	*Dr. Suresh Kumar*	*On-going*
	Harishita Goel	harshitagoel016@gmail.com	*Metal Nanoclusters in the Development of Green Analytical Methods for Sensing Applications*	*Dr. Suresh Kumar*	*On-going*
	Singh Pooja	poojaguddansingh@gmail.com	*Synthesis and characterization of metal nitride nanostructures: Applications in analytical chemistry*	*Dr. Suresh Kumar (Prof. Z. V. P. Murthy)*	*On-going*
	Juhi Raval	juhiraval65@gmail.com	*Quantification of bio-active molecules using fluorescent nanomaterials*	*Dr. Suresh Kumar*	*On-going*
	Karthik Makwana	kartikpmakwana@gmail.com	*Perovskite nanostructures for sensing applications*	*Dr. Suresh Kumar (Dr. Naved I. Malek)*	*On-going*
	Jamila Husain Kagdi	jamila9152@gmail.com	*Metal nanoparticles for pesticide sensors*	*Dr. Suresh Kumar (Dr. V. N. Mehta, and Dr. S. Jha,)*	*On-going*

Ph.D. Ongoing Students

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Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Status
	Kanishk Bhardwaj	Bhardwaj.kanishak@gmail.com	*Synthesis of organic molecules with aiegeu property foe the sensing of biogene and toxic analytes*	*Dr. Suban K. Sahoo (Dr. Ritambhara Jangir)*	*ongoing*
	Yagnik Vegad	Vegadyagnik29@gmail.com	*Folic Acid Detection Using β-Cyclodextrin Functionalized Copper Nanoclusters and Vitamin B6 Cofactor Pyridoxal*	*Dr. Suban K. Sahoo*	*ongoing*
	Aditi Tripathi	Tripathiaditi93@gmail.com	*Smartphone-assisted cost-effective approach for detecting mercury(II) using papain stabilized fluorescent gold nanoclusters*	*Dr. Suban K. Sahoo*	*ongoing*
	Rajanee Nakum	nakumrajanee01@gmail.com	*Advancing Bio-analyte Sensing by fluorescence: Nanomaterials and Organic Fluorophores in Research*	*Dr. Suban K. Sahoo*	*Ongoing*
	Dhvani Amratbhai Patel	pateldhvani2408@gmail.com	*"Development of aggregation-induced emission luminogens for sensing applications"*	*Dr. Suban K. Sahoo*	*ongoing*
	Parth vyas	ppvyas1972@gmail.com	*Pyrene scaffold as real ime fluorescence turn on chemosensors for selective detection of metal ions and its aggregation-Induced emission enhancement*	*Dr. Suban K. Sahoo*	*ongoing*
	Khusbu seth	khushbusheth1999@gmail.com	*Aggregation-induced emission luminogens and application*	*Dr. Suban K. Sahoo*	*ongoing*
	Jyoti Sharma	jyotisharma21195@gmail.com	*Fabrication of Zno nono structure-based composite materials for opto-electro chemical detection of heavy metal ions*	*Dr. Suban K. Sahoo*	*ongoing*

Ph.D. Ongoing Students

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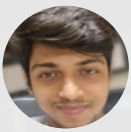
Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Status
	Nildhara Parsana	nildhara.parsana@gmail.com	*Deep Eutectic Solvent-based Eutectogel as a New Age Drug Delivery Vehicle*	*Dr. Naved Malek I*	*Ongoing*
	tapas Patel	tapaspatel77@gmail.com	*Photo-responsive Ionic Liquid based systems*	*Dr. Naved Malek I.*	*Ongoing*
	Hiral Ukani	hiralpatel1240@gmail.com	*MOF based composite in various applications*	*Dr. Naved Malek I.*	*Ongoing*
	Ravi Pansuriya	ravipansuriya82@gmail.com	*Ionic Liquid-based Hydrogel as Drug Delivery System*	*Dr. Naved Malek I. (Dr. Suresh Kumar Kailasa)*	*Ongoing*
	Ishani Pandya	ispandya97@gmail.com	*MOF-based nanocomposite hydrogel: drug delivery and environmental remediation*	*Dr. Naved Malek I.*	*Ongoing*
	Vidhi Joshi	vidhijoshiuna@gmail.com	*Stimuli Responsive Nanoaggregates as New Age Drug Carrier*	*Dr. Naved Malek I. (Dr. Mousumi Chakraborty)*	*Ongoing*
	Aayushi Lodhi	aayushilodhi9627@gmail.com	*Studies on heterogeneous novel mesozeolite H-β catalysts for environmentally benign chemical transformations*	*Dr. Kalpana C. Maheria*	*Synopsis submitted*
	Meet Patel	patelmeet121343@gmail.com	*Synthesis, characterization of inorganic/hybrid material and their application for the removal of contaminants from the water*	*Dr. Kalpana C. Maheria*	*Ongoing*

Ph.D. Ongoing Students

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Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Status
	Bilal Mansuri	mansuribilal81@gmail.com	Catalyzed Multicomponent reactions for the Environmentally Benign Synthesis of Drug-like Molecules	Dr. Kalpana C. Maheria	Ongoing
	Ayushi Patel	patelaayu1808@gmail.com	Solid acid catalyzed organic transformation of biomass derived chemicals into value added chemicals	Dr. Kalpana C. Maheria	Ongoing
	Mithil Kevadiya	mithil1221@gmail.com	Synthesis and characterization of micro, meso and macro porous materials for chemical transformation	Dr. Kalpana C. Maheria	Ongoing
	Deep Patel	deepmpatel3496@gmail.com	Introduction to HY Zeolite and its Catalytic Applications	Dr. Kalpana C. Maheria	Ongoing
	Kajal Patel	kajalpatel2722@gmail.com	Synthesis and investigation of new bacalein based bioactive compounds	Dr. Premlata Kumari	Thesis submitted
	Mahesh Vaghasiya	mdvaghasiya9@gmail.com	Design, synthesis, and biological evaluation of novel sulfur-containing heterocyclic compounds	Dr. Premlata Kumari	Ongoing
	Jigarkumar Vallabhbhai Mendapara	jmendapara20@gmail.com	Synthesis, characterization, and pharmacological activity of novel pyrrole derivatives through click reactions	Dr. Premlata Kumari	Ongoing
	Riyakumari Mahendrabhai Tandel	riyatandel2424@gmail.com	Biogenic synthesis and functionalization of nanoparticles and its application in detection and water remediation	Dr. Premlata Kumari	Ongoing

Ph.D. Ongoing Students

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Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Status
	Shivangi Dineshbhai Makwana	shivangimakwana81995@gmail.com	*Synthesis, characterization, and pharmacological activity of nitrogen-containing fused heterocycles*	*Dr. Premlata Kumari*	*Ongoing*
	Hitesh Jayantibhai Purohit	hiteshpurohit33317@gmail.com	*Synthesis, characterization, and pharmacological evaluation of benzisothiazolinone-based heterocycles.*	*Dr. Premlata Kumari*	*Ongoing*
	Nitumani Tripathi	nitu.tripathi007@gmail.com	*Underscoring the aqueous solution demeanor in Block Copolymer.*	*Dr. Ketan C. Kuperkar*	*Ongoing*
	Yagnik Vora	voragnik22@gmail.com	*Nanoscale self-assembly modulation of varied additives in deep eutectic solvents: Structural solvation and dynamics.*	*Dr. Ketan C. Kuperkar*	*Ongoing*
	Tejash Desai	tejash_desai1982@yahoo.com	*Insight into the micellization behavior, molecular interaction and thermodynamic assessment in surfactant system.*	*Dr. Ketan C. Kuperkar*	*Ongoing*
	Virendra Prajapati	virenprajapati75@yahoo.com	*Nanoscale self-assembly generation in aqueous amphiphilic.*	*Dr. Ketan C. Kuperkar*	*Ongoing*
	Mayursing B. Girase	mbgirase042@gmail.com	*Phase behavior, micellization and aggregation dynamics of surfactants in aqueous solution*	*Dr. Ketan C. Kuperkar*	*Ongoing*
	Soliya sudha	Soliyasudha123@gmail.com	*Transition metal-free C-H functionalization reactions*	*Dr. Ketan C. Kuperkar*	*Ongoing*

Ph.D. Ongoing Students

31

Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Status
	Satani Piyush	sPiyushsatani123@gmail.com	Transition metal and Transition metal-free C-H functionalization reactions	Dr. Ketan C. Kuperkar	Ongoing
	Kakadiya Harikrushn	harikrushn.kakadiya99@gmail.com	Cyclic voltammetry characterization in Deep Eutectic Solvents	Dr. Ketan C. Kuperkar	Ongoing
	Shubham Kumar	Shubhamkumar9087@gmail.com	Development and Applications of Materials based on Phosphate and COF-based composites	Dr. Ritambhara Jangir (Dr. Bharatkumar Dholakiya)	Ongoing
	Ketan K. Maru	ketanmaru61@gmail.com	Synthesis and Applications of MOFs and MOF-based Composites: Innovations in Membrane Preparation, Catalysis, Wastewater Treatment, and Biosensing	Dr. Ritambhara Jangir (Dr. Sarita Kalla)	Ongoing
	Ankita Pardiwala	ankitapardiwala4747@gmail.com	Synthesis of Polyoxomolybdate cluster based open framework material and Polyoxometalates (POMs) based composite and their various applications in medicine, catalysis, and wastewater treatment.	Dr. Ritambhara Jangir	Ongoing
	Divya	Divyanain54m@gmail.com	Covalent Organic Frameworks Synthesis and their applications for water purification, catalysis and energy storage.	Dr. Ritambhara Jangir (Dr. Sarita Kalla)	Ongoing
	Patel Monak Rameshbhai	monakpatel28@gmail.com	Transition metal catalyzed synthesis and functionalization of aromatic amines	Dr. Togati Naveen (Prof. Bharatkumar Z. Dholakia)	Ongoing
	Desai Bhargav Rasikbhai	bhargavdesai0303@gmail.com	Transition metal-catalyzed cross-coupling of boronic acid reaction	Dr. Togati Naveen (Prof. Bharatkumar Dholakiya)	Ongoing

Ph.D. Ongoing Students

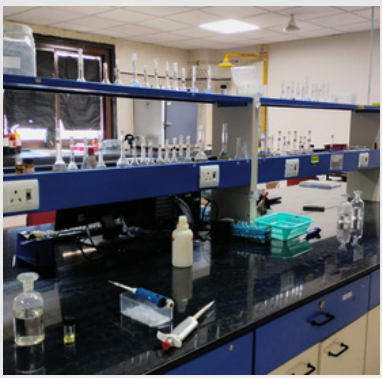
32

Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Status
	Arti Pravinbhai Ramani	artiramani8262@gmail.com	*Transition metal-catalyzed functionalization of sulfonamides*	*Dr. Togati Naveen*	Ongoing
	Akshay Bharodiya	akshayaucky@gmail.com	*Microwave-assisted organic synthesis*	*Dr. Togati Naveen (Dr. Areti Sivaih)*	Ongoing
	Desai Bhavyesh Nikhilkumar	Bhavyeshdesai42@gmail.com	*Functionalization of Aldehydes*	*Dr. Togati Naveen*	Ongoing
	Ravinkumar Sunilbhai Valand	ravinsvaland@gmail.com	*Synthesis and spectroscopy studies of Triazole-Linked Fluorescent Conjugates as Receptors for metal ions*	*Dr. Areti Sivaiah*	Ongoing
	Maheshkumar Dineshbhai Prajapati	Prajapatimahesh12389@gmail.com	*Synthesis and characterization of fluorescent probes and their metal complex: Recognition studies of ions and molecules*	*Dr. Areti Sivaiah (Dr. Sarita Kalla)*	Ongoing
	Arindam Mondal	arindammondal0505@gmail.com	*Development of far-red fluorescence sensor for selective detection of a wide range of biological macromolecules.*	*Dr. Subrata Dutta*	Ongoing
	Kodiyawala Akshaykumar Manojkumar	akshaykodiyawala8@gmail.com	*Designing and development of hemicyanine-based fluorescence sensors for selective detection of biomolecules*	*Dr. Subrata Dutta*	Ongoing
	Abdul Raheman	abdulraheman043@gnail.com	*Peptide nucleic acids based far-red fluorescence sensor for selective detection of nucleic acids*	*Dr. Subrata Dutta*	Ongoing

Ph.D. Ongoing Students

Current Photo	Name of PhD Student	Email ID	Title of the thesis	PI name (Co-PI name)	Status
	Dheeraj	dheerajnehrak10@gmail.com	*Catalytic aspects of Graphene oxide supported metal complex.*	Dr. Lata Rana	Ongoing
	Nafisa	nafisa30101997@gmail.com	*Role of metal complexes as catalyst*	Dr. Lata Rana	Ongoing
	Shukla Dinesh Rakeshbhai	dshuk6561@gmail.com	*Metal Organic Frameworks (MOFs) Synthesis and their Applications*	Dr. Arup Kumar Ghosh	Ongoing
	Khadayata Elesh Dhanjibhai	eleshkhadayata786@gmail.com	*Imine-linkage-Based Covalent Organic Frameworks (COFs) with their applications*	Dr. Arup Kumar Ghosh	Ongoing

RESEARCH LABORATORIES @ DOC



- Polymer & Phytochemistry
- Ionic Liquid
- Nano & Supramolecular chemistry
- Surface Chemistry
- Organic Synthesis & phytochemistry
- Catalysis and Ion exchange
- Functional Nanomaterials & Analytical Chemistry
- Biomaterial
- Catalysis and Synthetic Methodology
- Organocatalysis and materials chemistry
- Atmospheric Chemistry
- Supramolecular Bio/Nano Sensors
- Coordination chemistry
- Organic and Bioorganic

NAME OF INSTRUMENTS

Differential Scanning Calorimeter

Benchtop NMR 60 MHz

Tensiometer

High Performance Liquid Chromatography

Zeta size analyser

FT-IR Spectrophotometer

Double beam UV-Visible Spectrophotometer

Thermogravimetric Differential thermal analyzer

Attenuated total reflection -FTIR

Flash Chromatography

ACHIEVEMENTS (DEPARTMENT)

DST-FIST improvement of S&T infrastructure sponsored by Collaborative research project of two hundred three lakhs rupees for five years (19th Dec, 2022).

Principal Coordinators :

Dr. Smita Jauhari, Dr. Bharatkumar Dholakiya, Dr. Suresh Kumar, Dr. Suban K. Sahoo, Dr. Naved Malek, Dr. Kalpana Maheria, Dr. Premlata Kumari and Dr. Ketan C. Kuperkar

Total no. of Ph.D. awarded students: *56*

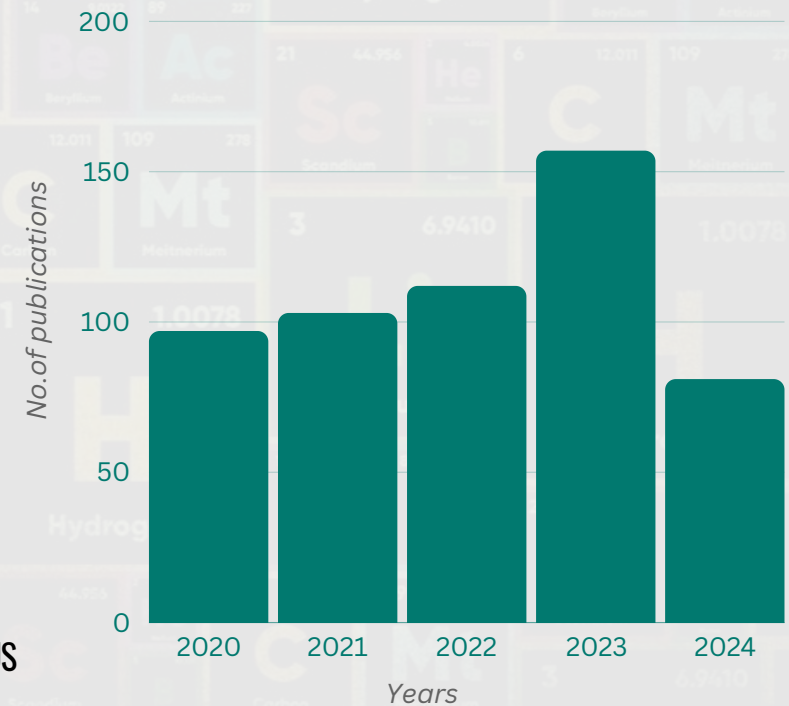
Total no. of Ph.D. ongoing students: *76*

Total no. of projects completed: *18*

Total no. of projects ongoing: *12*

Total no. of publications till date: *1085*

Total no. of publications in last five years: *550*



Source- SCOPUS

PATENTS

Total no. of patents: 11

Granted Process/Product Patents

Patent No.	Title of the Patent	Inventor(s) Name.
296833	*"3-halo derivatives of thiomaleic anhydride and process for the preparation thereof"*	*Dr. Bharat Dholakiya , Jigar Patel*
298644	"Controlled release of therapeutic agents using drug impregnated polymer film"	*Dr. Bharat Dholakiya, Bhusan Chubisa Mahendra Lakdawala*
390158	"An improved process for the preparation of high molecular weight polylactic acid"	*Dr. Bharat Dholakiya, Bhusan Choubisa Dr. Mayank Patel*
332732	"Novel biologically active maleimide compounds and use thereof"	*Dr. Bharat Dholakiya , Jigar Patel*
334762	"Novel process for the preparation of furan 2, 5,-dione derivatives"	*Dr. Bharat Dholakiya , Jigar Patel*
387089	Polymer mortar composite from post-consumer PET modified with MMA and POFA and process for preparation thereof"	*Dr. Y. D. Patil , Bhagyshree Sarde Dr. Bharat Dholakiya*
480560	"Cardanol based bio-polyol of formula (I) and process for preparation thereof"	*Dr. Bharat Dholakiya , Nilam Gamit*
508289	"Polymer mortar composite and a process for preparation thereof"	Dr. Y. D. Patil , Bhagyshree Sarde Dr. Bharat Dholakiya
301613	*An improved process for the preparation of Dihydropyrimidin-2-ones*	*1.MaheriaKalpana Chaturbhai 2.Mistry Sunilkumar Rameshchandra 3. Joshi Rikesh Rameshchandra 4. Sahoo Suban Kumar*
319508	*An improved process for the preparation of Diarylpyrimidin-2(1H)-Ones*	*1.MaheriaKalpana Chaturbhai 2.MistrySunilkumar Rameshchandra*
101129644	*Apparatus and method of liquid nitrogen assisted spray ionization mass spectrometry*	*Hui-Fen Wu, Suresh Kumar Kailasa, Nazim Hassan.*
448736	An *Industrial* one pot process for the preparation of Chlorzoxazone	*Dr. Premlata Kumari Vaghasiya Mahesh Dungarshibhai*

Filed Process/Product Patents

202321089584	*Cardanol based sol–gel derived polyurethane polymer mortar (SGPM) composites and process for preparation thereof*	*Dr. Bharat Dholakiya , Nilam Gamit*

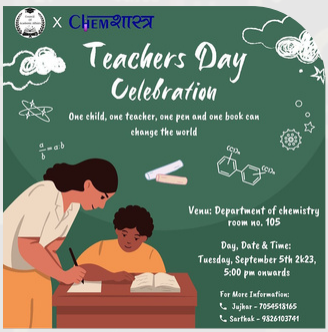
Granted Design Patents

363344-001	*Hydrogen Sulfide Gas Generator*	*Dr. Mahendra M. Lakdawala Kevadiya Hardik Popatbhai Dr. Bharat Dholakiya , Dr. G. M. Malik*
364383-001	*Orthopaedic Implant*	*Dr. Mahendra M. Lakdawala Kevadiya Hardik Popatbhai Dr. Bharat Z. Dholakiya , Dr. G. M. Malik*
376805-001	*Micro-Electrochemical Reactor*	*Dr. Mahendra M. Lakdawala Dr. Bharat Dholakiya , Dr. G. M. Malik Dr. Salma Mitchla , Dr. Dharmesh Mahajan Dr. Mayank Champaneriya*

Chemशास्त्र (A DepartmentaLClub)

Teacher's Day Celebrations

The Teacher's Day celebration was filled with heartfelt tributes and engaging activities to honor our educators. We appreciated the valuable contributions of our professors and showcased various performances by students. Teachers inspired us with their words, and each professor was felicitated. The event concluded on a high note with a cake cutting and refreshments, leaving a lasting impression on everyone.



Talk on the Pathway to SRFP

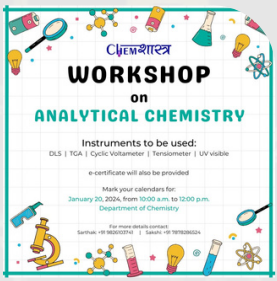
The talk on the pathway to SRFP (Summer Research Fellowship) in chemistry offered insights and guidance for students interested in research. Speakers, RamGopal Tiwari & Aniket Raj, SRFP recipients 2023, covered eligibility, application process, and benefits. They emphasized writing effective research proposals and choosing projects aligned with interests. The session cleared doubts, boosting students' confidence for future applications. Refreshments and an interactive session concluded the event.

Placement Talk-Federal Bank

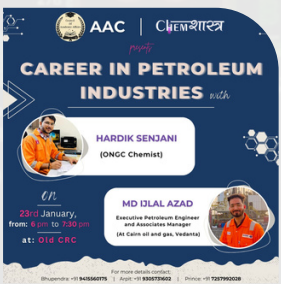
The placement talk offered insights into career opportunities at Federal Bank, one of India's premier private sector banks. Speakers Ayushi Sharma and Poojaben Maheshwari, both placed at the bank, shared recruitment process details and preparation strategies. A lively discussion ensued about diverse career paths, and a Q&A session clarified audience doubts. Active participation made the event successful.

Workshop on "Analytical" Chemistry

The analytical chemistry workshop covered principles, techniques, and instrument applications like FTIR and UV. Speakers offered insights followed by hands-on demos, led by experienced instructors. Attendees gained practical skills in instrument operation and result interpretation.



Talk on Career in Petroleum Industries



The petroleum industry careers event, in collaboration with AAC, provided insights into diverse career opportunities and future prospects. Speakers discussed industry trends, technological advancements, and required competencies. Attendees benefited from networking opportunities and gained empowerment for informed career choices in the petroleum sector.

Workshop on "Computational" Chemistry and Molecular Docking

Led by Dr. Arup Kumar Ghosh and Dr. Suban Sahoo, the workshop focused on computational techniques crucial for drug discovery and molecular modeling. Attendees acquired practical expertise in molecular modeling principles and dynamic simulations. Interactive sessions enabled hands-on exploration, fostering a deeper understanding of computational methods.

Industrial Visit of 5 th Year Students

Department of Chemistry (DoC) organised an industrial visit for the final year students of Five Years Integrated M.Sc. Chemistry to **Colourtex Industries Pvt. Ltd.**, Unit No.-1, Gabheni Char Rasta, Sachin-Magdalla Highway (NH 53), GIDC Sachin, Surat, Gujarat. Guided by professionals, they explored operational processes,bridging theory with practice.

This hands-on experience ignited their passion and provided invaluable insights for their future careers.

Ph.D FELLOWSHIPS

YUVRANI M
MICHIGAN STATE UNIVERSITY

PLACEMENT PROFILE

TANUJ SINGH
CAIRN OIL & GAS
VEDANTA LTD.

SHUBHAM KUMAR
CAIRN OIL & GAS
VEDANTA LTD.

HARSHIT MISHRA
CAIRN OIL & GAS
VEDANTA LTD.

PAVAN KUMAR
CAIRN OIL & GAS
VEDANTA LTD.

RIPUNJAY TANWAR
ASIAN PAINTS

TEJAVATH RAJENDHAR
ASIAN PAINTS

HARSHIL BHANUSALI
AARTI INDUSTRIES

DEVASHISH ROHIT
AARTI INDUSTRIES

SAHIL SHARMA
UNACADEMY

SARVESH KUMAR
UNACADEMY

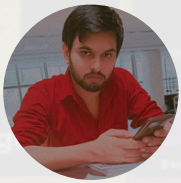
SAHIL KIRORIWAL
UNACADEMY

AMARENDRA SINGH
UNACADEMY

PLACEMENT PROFILE

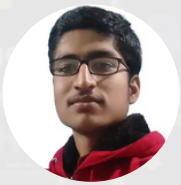
40

ADITYA SINGH
UNACADEMY



SUDHIR YADAV
UNACADEMY

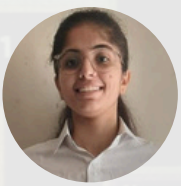
RISHABH SINGH
PHYSICS WALLAH



ADARSH BHATT
PP SAVANI

SAWAI SINGH
PP SAVANI

NANDINI PRAJAPATI
SOLANCE ENERGY



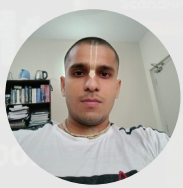
POOJABEN MAHESHWARI
FEDERAL BANK

AYUSHI SHARMA
FEDERAL BANK

ADITYA TOMAR
KREA UNIVERSITY

PRIYAM PATEL
SGS INDIA PVT LTD.

BHUPENDRA KONKNI
SGS INDIA PVT LTD.



SUJEET KUMAR
MODI SCHOOL

AZHAR MAHMOOD
OPENINAPP LISTED INC

SMIT MORAWALA
UNACADEMY

UMAKANTH MAHESH
NARAYANA
ALLEN OVERSEAS

AKASH BONTHU
TALENT SERVE

VIVEK GUPTA
ALLEN OVERSEAS

PG INTERNSHIPS

Ramgopal Tiwari
I20CY007
RWTH AACHEN UNIVERSITY
DAAD-WISE

Aniket Raj
I20CY019
Technical University of Munich
DAAD-WISE

Raj Singh
I20CY043
Friedrich Schiller University Jena
Germany
DAAD-WISE

Aryan Shah
I20CY001
1.RWTH Aachen, Germany , 2. IIT Kharagpur

Rohit Jhajara
I20CY006
Future Sight

Daniyelbhai Valvi
I20CY033
Future Sight

Perikala Praveen
I20CY039
IIT Gandhinagar

Dharavath Mahesh
I20CY054
DRDO,Pune

Mayuk Joddar
I21CY019
MAX PLANCK INSTITUTE FOR CHEMISTRY, MAINZ
DAAD-WISE

Neel Sharma
I21CY012
Technische Universität Dresden
DAAD-WISE

Vaishnavi Singh
I21CY008
IIT Gandhinagar
SRFP

Paras Waykos
I21CY016
INSEAD Paris (France), IISER Pune (Summer Student Program)

Abhishek Anand
I21CY048
IISER, BERHAMPUR

Aryendu .P
I21CY006
Iiser Thiruvanathapuram

Yashwanth Raj
I21CY027
IIT, Bombay

Shubham singh
I21CY015
IIT Bombay

Yatharth kumawat
I21CY018
CSIR - National Institute of Oceanography, Goa

Subhadeep Maity
I22CY041
IIT Guwahati, ICT Mumbai HBCSE-TIFR

Abhinav Anand
I22CY044
Finlatics

Aditya Aryan
I22CY051
Nit Patna and NTPC

Sai jaswanth
I22CY024
IIT jodhpur

Kirubakar R
I21CY046
IIT Bombay

ACHIEVEMENTS (STUDENT)

Romi Sah
CATC Ncc camp

Perikala Praveen
Volleyball (NIT Kurukshetra 2023), Athletics (NIT Warangal 2023),

Dhone Anil Kumar
Volleyball (NIT Kurukshetra)

Rohit Jhajara
Basketball (MNIT Jaipur 2022, 2023)
Interyear basketball (SVNIT Surat 2023)

Daniyel Valvi
Played Kho-Kho at NIT Warangal

Tarjani K Patel
Participated in InterNIT Volleyball Tournament held at NIT Kurukshetra

Paras Waykos
EBSB National NCC Camp-Ahmedabad

Devanshi Lad
Volley Ball (NIT Kurukshetra)

Rushika Jain
Basketball (NIT Jaipur)

Ranjith Nagavath
Kho-Kho (NIT Warangal)

DEMOGRAPHICS

FINAL YEAR

Male

40

GENDER RATIO

Female

8

PLACEMENT STATISTICS

48

Total strength of batch 2023

36

Total no. of students opted for placements

29

Total number of students Placed

80%

Placement

Avg. LPA of **7.53**

DYNAMIC TEAM

Faculty Coordinator T&P (2023-24)

Dr. Ketan C. Kuperkar

Student Coordinator T&P (2023-24)

Tanuj Singh
I19CY030

Sahil Sharma
I19CY055

Designer

Alige Shruthi
I22CY028

Content Writer

Sai Krishna k.
I20CY028

Aryendu.P
I21CY009

Neel Sharma
I21CY012

Surat is well connected by Railway to major cities like Bangalore, New Delhi, Mumbai, Chennai, Hyderabad, Ahmedabad, Jaipur, Lucknow, Bhopal, Indore etc.

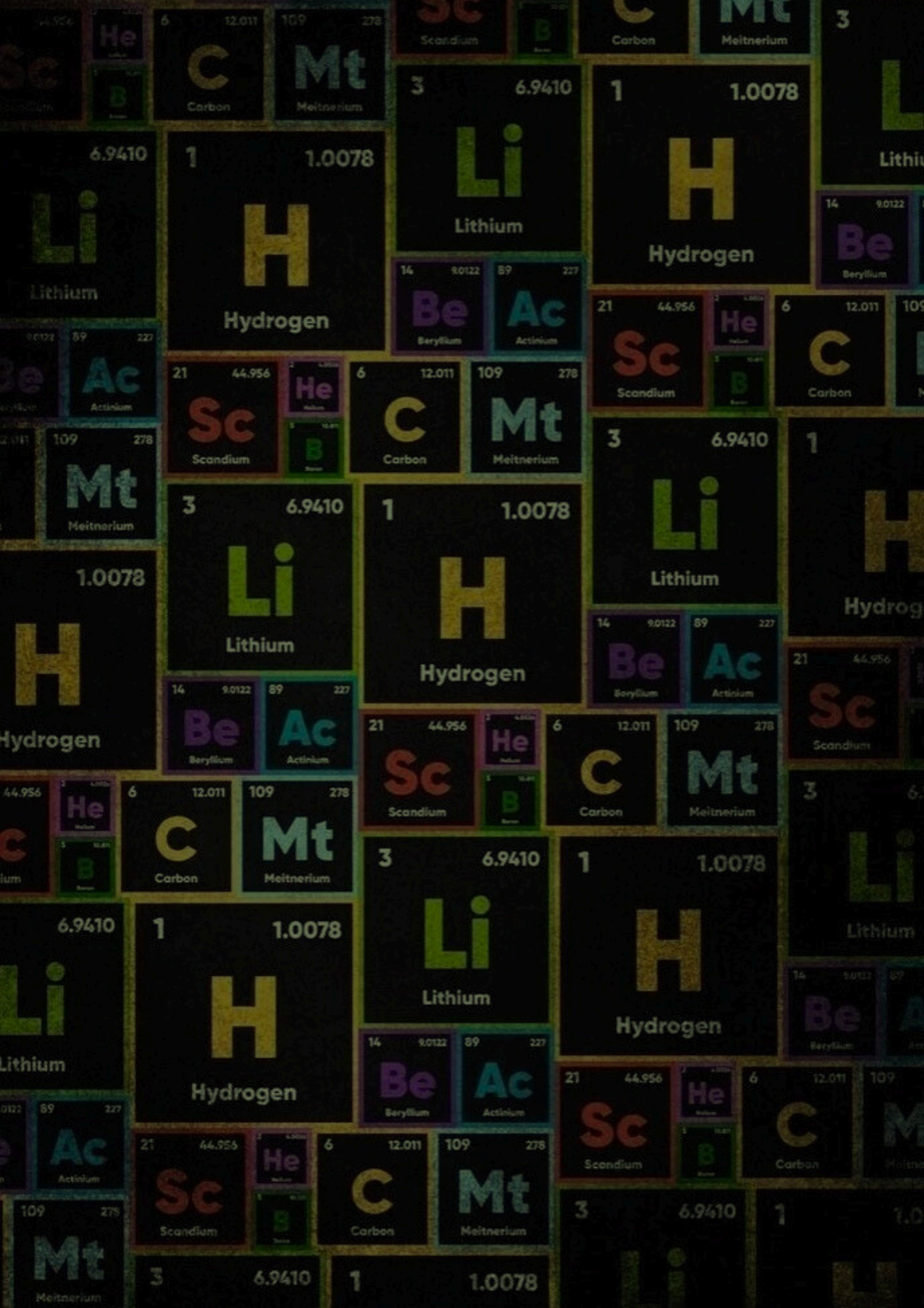
SVNIT is located at a short distance of about 10 km from Surat Railway Station and can be easily commuted within 30 minutes.

SVNIT Surat is at a distance of just 8.5 Km from Surat International Airport. It takes rougly 20 minutes to reach the campus.

For more updates follow:

https://www.instagram.com/tnp_chemistry_nitsurat
https://www.instagram.com/chemshastra_nit_surat
https://www.linkedin.com/company/department-of-chemistry-nit-surat-training-placement

रसायनिकी विभाग
DEPARTMENT OF CHEMISTRY
सरदार वल्लभभाई राष्ट्रीय प्रौद्योगिकी संस्थान, सूरत-395007, गुजरात, भारत
Sardar Vallabhbhai National institute of technology (SVNITSurat) - 395007,Gujarat,India
https://www.svnit.ac.in/web/department/chemistry


3
6.9410
Li
Lithium
1
1.0078
H
Hydrogen
14
9.0122
Be
Beryllium
89
227
Ac
Actinium
21
44.956
Sc
Scandium
2
He
5
B
6
12.011
C
Carbon
109
278
Mt
Meitnerium