



UPL UNIVERSITY  
OF  
SUSTAINABLE TECHNOLOGY



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# SCI-F.Y.I.

e- Newsletter | 2025 : Issue-4

*Dedicated*  
to

***Padma Bhushan***

***Dr. Shanti Swarup Bhatnagar***

(1894-1955)

**Father of Indian Research Laboratories**

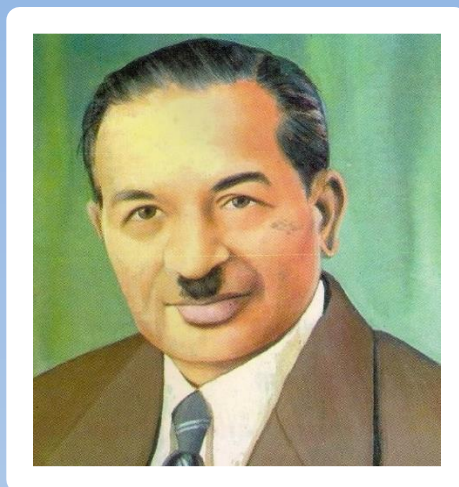


SRICT- Institute of Science & Research  
UPL University of Sustainable Technology

Block No. 402, Ankleshwar-Valia Road, Ta: Valia, Dis: Bharuch-393135



July 2024 - December 2024



**Padma Bhushan**

**Dr. Shanti Swarup Bhatnagar**

(1894-1955)

**Father of Indian Research Laboratories**

Shanti Swarup Bhatnagar (1894–1955) was a pioneering Indian scientist and a key architect of India's scientific and industrial research framework. He is often regarded as the "Father of Research Laboratories" in India for his instrumental role in establishing the Council of Scientific and Industrial Research (CSIR) in 1942 and serving as its first Director-General. His vision led to the creation of several national laboratories, including the National Chemical Laboratory (NCL) and the National Physical Laboratory (NPL), which significantly contributed to India's scientific progress. Bhatnagar's research focused primarily on colloid chemistry and industrial chemistry, with notable contributions such as the development of improved drilling fluids for petroleum exploration. He also played a crucial role in advancing defense research, laying the foundation for what later became the Defence Research and Development Organisation (DRDO).. In recognition of his contributions, the Indian government instituted the **Shanti Swarup Bhatnagar Prize for Science and Technology**, which remains one of the most prestigious scientific honors in the country. His legacy continues to inspire generations of scientists and researchers in India

### **Vision**

Inspiring young minds to learn, adapt and promote the philosophy of science education and cutting-edge research towards sustainability.

### **Mission**

- ❖ To establish a dynamic learning environment that support fundamental science education based on future demands to resolve practical problems.
- ❖ To provide theoretical and practical education to troubleshoot environmental problems and provide sustainable solutions.
- ❖ To inculcate analytical expertise, ethical values and soft skills in students to make them ready for corporate world.
- ❖ To promote strong, effective and mutually beneficial Industry-University collaboration.
- ❖ To facilitate and encourage research through temper of science leading to resolving practical problems and futuristic research.
- ❖ To serve society through innovation and excellence in science.

# About SRICT-ISR

The Department of Chemistry was established in the year of 2018 under the SRICT-Institute of Science and Research (SRICT-ISR) on the footsteps of reputed and quality education based institute SRICT. Department of Chemistry started with the Post-graduation course (M.Sc.) in Organic Chemistry. After the successful journey of decades now SRICT is a part of UPL University of Sustainable Technology.

The Chemistry Department assists the purpose of imparting knowledge in the core science subject, which is a foundational building block for most engineering disciplines. As such, high technology laboratories with the latest technological gizmos greet any students and faculty members of the college looking to strengthen their base in this subject. A team of extremely capable faculties and staff members keeping the department running in full throttle.

SRICT-ISR offers courses B.Sc. (Chemistry), B.Sc. (Microbiology), M.Sc. (Organic Chemistry) Evening and also PhD. The curriculum allows a more in-depth understanding and comprehensive knowledge base in a specific subject.

SRICT - ISR has highly qualified faculties with good number of publications in reputed journals, good laboratory facilities, and advanced classroom, canteen and transportation facilities.



# Message from Dean

It is with great pleasure that I extend my warmest greetings to all readers of 4<sup>th</sup> edition of the **SCI-F.Y.I**, the official magazine of the **SRICT-ISR, UPL University of Sustainable Technology**. This publication serves as a vibrant reflection of our college's unwavering commitment to scientific inquiry, innovation, and academic excellence.

Science has always been the foundation of progress, driving discoveries that transform lives and shape the future. As students, faculty, and researchers, we are part of an ever-evolving world where knowledge knows no bounds. Through this magazine, we celebrate not only the achievements of our talented students and faculty but also the spirit of curiosity and exploration that defines our institution.

Within these pages, you will find insightful articles, ground breaking research, and creative expressions that showcase the brilliance of our academic community. This magazine is more than just a collection of words, it is a testament to the dedication, perseverance, and passion that fuel our pursuit of knowledge.

I encourage you to immerse yourself in the stories, ideas, and innovations shared here. May they inspire you to think critically, challenge assumptions, and contribute meaningfully to the world of science.

My heartfelt congratulations to the editorial team, contributors, and all those who have worked tirelessly to bring this magazine to life. Your efforts are invaluable in fostering a culture of learning and discovery.

Wishing you all continued success in your academic and scientific endeavors.

**Prof. Snehal Lokhandwala**

Dean (I/c), Science and Sustainability,  
UPL University of Sustainable Technology,  
Ankleshwar, Gujarat, India.



## Message from HoD

I am very much delighted to share that SRICT-ISR is publishing the fourth issue of e-newsletter "SCI-F.Y.I" of the year 2024. Our SRICT-ISR is doing extremely well with regards to the infrastructure and teaching methods.

SRICT-ISR comprises a group of successful people with Ph.D. degrees as well as accomplishments in Research and Teaching. The SRICT-ISR encourages the faculty to attend seminars, workshops & conferences.

The SRICT-ISR motivates the faculty to publish papers in reputed Journals, submit project proposals to funding agencies & to enrol for Ph.D. program. The department has well qualified, experienced and dedicated faculty, who is blend of knowledge and experience.

We have a very favourable faculty-to-student ratio, which encourages close contact between students and their faculty mentors. This allows the faculty to give personalised attention to the academic progress of students.

Our courses are designed to provide students the knowledge of Industrial synthetic organic & Applied Chemistry, and also introduce them to various experimental skills. The subject has become an essential part of the curriculum for Organic Chemistry.

### **Dr. Nikhil M. Parekh**

Head, Department of Chemistry

SRICT-ISR,

UPL University of Sustainable Technology,  
Ankleshwar, Gujarat, India.



# Team of SRICT-ISR

**Dr. Trupti R Patel**

*M. Sc., Ph. D.*

**Dr. Sandip De**

*Ph. D. Chemistry*

**Dr. Mehulkumar L. Savaliya**

*M. Sc., Ph. D. Bioenergy*

**Dr. NareshKumar Vala**

*M. Sc., Ph. D., GSET*

**Dr. Suryajitsinh Rathod**

*M. Sc., Ph. D., CSIR- NET*

**Dr. Prakash Majee**

*M. Sc., Ph. D., CSIR- NET*

**Dr. Sidhharth Patel**

*M. Sc., Ph. D.*

**Dr. Raviprakash S. Chandra**

*M. Sc., M. Phil., Ph. D.*

**Dr. Prashant Arya**

*Assistant Professor*

**Ms. Soumya Yadav**

*M. Sc. Microbiology,  
ICAR-NET*

**Mr. Dinesh Parmar**

*ITI Electronics*

**Mr. Shivamsinh Kesrola**

*Asst. Prof. on Adhoc*

**Ms. Namrata Parmar**

*Asst. Prof. on Adhoc*

**Ms. Manisha Maurya**

*Asst. Prof. on Adhoc*

**Ms. Nikita Rathod**

*Asst. Prof. on Adhoc*

**Ms. Mittal Panchal**

*Asst. Prof. on Adhoc*

**Ms. Dipika Matroja**

*Asst. Prof. on Adhoc*

**Ms. Dipikaben Vasava**

*M. Sc. Chemistry*

*Laboratory Assistant*

**Ms. Isha Mevada**

*M. Sc. Chemistry*

*Laboratory Assistant*

**Ms. Nisha Atodariya**

*M. Sc. Chemistry*

*Laboratory Assistant*

**Ms. Sneha Tank**

*M. Sc. Microbiology*

*Laboratory Assistant*

# Message of Editorial Team

As the editors, our goal is to nurture a platform where ideas flourish, voices are heard, and stories come to life. This newsletter is more than just words on paper; it embodies our shared creativity and intellectual spirit. Every article, design choice, and collaborative effort interweaves to create a rich and dynamic reflection of our college journey.

In this magazine, you will find narratives that inspire, artwork that captivates, and opinions that challenge. It is a platform where we celebrate achievements, reflect on challenges, and embrace the myriad hues of our shared journey through academia.

We invite you to immerse yourself in the stories within this newsletter, exploring the thoughts and dreams of your peers. Let this magazine be a catalyst for conversations—one that sparks connections and fosters understanding. Together, let us continue to shape this newsletter into a reservoir of ideas, a reflection of our collective intellect, and a source of inspiration for generations to come.

Thank you for being a part of this incredible journey. We look forward to witnessing the continued growth and creativity that will undoubtedly flow through the pages of this magazine.

## Faculty Team



**Dr. Raviprakash S. Chandra**  
*Assistant Professor*  
*M. Sc., M. Phil., Ph. D.*

**Dr. Naresh Kumar Vala**  
*Assistant Professor*  
*M. Sc., Ph. D., GSET*

## Students Team



**Nirmal Kher**  
*M.Sc. Semester-II*

**Verik Patel**  
*M.Sc. Semester-IV*

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# Academic Activities



## **“Welcome & Bridge course sessions”**

The SRICT-ISR, UPL University of Sustainable Technology, Ankleshwar has organized a welcome & Bridge course sessions for students of B.Sc. Chemistry and Microbiology, 1<sup>st</sup> semester on 03-07-2024. Honorable Dean, Science & Sustainability, Dr. Snehal Lokhandwala has interacted with all the students and welcomed them on behalf of the department. He discussed with students that, as you embark on this new journey, it is important to remember that you are not alone. We are here to support you and guide you every step of the way. He has rightly mentioned that it's time to give innovation a new meaning. What knowledge you gain through learning should be imparted to make our world a better place.



## **“Visit of Plasma Exhibition-2024”**

The B. Sc Chemistry, Sem-5 students of SRICT-ISR, UPL University of Sustainable Technology, Ankleshwar have visited PLASMA EXHIBITION-2024 at Smt. P. D. Shroff Sankardeep Vidhyalay, Ankleshwar on 11-07-2024. Students got sensitized with 18 different experiment miniatures of plasma generation and its usage. They inherently interacted with experts from Institute of Plasma Research, Gandhinagar to know about real and commercial application of plasma state of matter. They learnt about plasma application in various fields such controlled thermonuclear fusion, surface treatment, biomedical applications, lighting, medicine, electronics, transportation and space propulsion, display technology, space physics, solid state plasma, gas lasers, etc.



## **“SSIP orientation sessions”**

The SRICT-ISR, UPL University of Sustainable Technology, Ankleshwar has organized a SSIP orientation sessions for students of B. Sc. Chemistry and B. Sc. Microbiology, 1st semester on 19-07-2024. Students have been made aware that Government of Gujarat has developed a policy for providing assistance to Startups/ Innovation. Under this scheme, any individual/ group of individuals having innovative idea/ Concept will be eligible and/ or Universities/ education institutions, Incubation Centre/ PSUs/ R&D Institutions/ Private and other establishments will be eligible as an institution to support and mentor to innovators as approved by Committee. They also have been made aware about functioning of SSIP cell of UPL University and currently running Startups & Innovations.



## “Meditation before Examination”

On 05-08-2024, The honorable Dean, Science & Sustainability, Dr. Snehal Lokhandwala has visited all blocks of B. Sc Chemistry Sem-5 and M. Sc. Chemistry Sem-3 to boost up student's moral before commencement of Unit Test-1. The respective invigilators of all blocks have conducted Yoga/ Mind refreshing session before commencement of Unit Test-1.



## “Parents Teacher Meeting”

The SRICT-ISR has organized a Parents Teacher Meeting (PTM) of parents of B. Sc. Chemistry & Microbiology, Semester-1 with Honorable Dean, Science & Sustainability on 8<sup>th</sup> August, 2024. Active participation has been established by the parents. PTM was addressed by HoD & Dr. Snehal Lokhandwala sir in the presence of class teacher and mentor. Points discussed were introduction of Departmental faculties & lab assistants, importance of attendance, bonus marks, disciplinary measures and new curriculum framework. Parents appreciated efforts taken by Department for the holistic development of students, as well as bus facilities and hostel facilities provided by the management. They also deeply appreciated various disciplinary measures of the University for the betterment of their students.



## “1-2-1 Meeting with students”

President Sir, UPL University with Dean, Science and Sustainability and HoD, Chemistry Department are meeting SRICT-ISR students in a one-to-one meeting with the purpose to motivate students to improve their overall academic performance. Students were encouraged to participate in various activities, upgrade their skills and work hard for the upcoming University exam. Academic performance, non-academic activities, facilities and difficulties that a student might face in the campus were discussed in the meeting. Students were motivated to improve their academic performance and more participation in other co-curricular activities.



## “Slow learner Classes”

Slow learner classes play a vital role in education by providing tailored support to students who need extra time to grasp concepts. These classes focus on personalized teaching methods, ensuring that students learn at their own pace without feeling pressured. They help build confidence, improve academic performance, and enhance engagement through interactive learning techniques. By offering a stress-free environment, slow learner classes reduce anxiety and encourage better retention of knowledge. Additionally, they support students with learning difficulties, reinforcing concepts through repetition and specialized teaching strategies. Ultimately, these classes empower students to succeed academically and personally.



## “PLI Sessions”

Peer learning initiatives (PLI) empower students to share knowledge and skills with junior peers through interactive sessions. These student-led programs foster collaboration, improve understanding, and build confidence for both mentors and learners. Senior students guide juniors on academic topics, study techniques, and real-world applications, creating a supportive learning environment. Sessions may include group discussions, problem-solving activities, and hands-on projects, making learning more engaging and effective. By encouraging teamwork and mentorship, peer learning enhances academic performance and personal development. Such initiatives also promote a sense of community, ensuring juniors receive guidance while seniors reinforce their own knowledge through teaching.



# “MoUs with external parties”

A Memorandum of Understanding (MoU) is essential for universities as it fosters academic collaboration, research partnerships, and knowledge exchange. It establishes a formal understanding between institutions, outlining shared goals, responsibilities, and areas of cooperation without legal binding obligations. Through MoUs, universities can engage in student and faculty exchange programs, joint research initiatives, and curriculum development. They also facilitate international collaborations, enhancing global exposure and academic growth. SRICT-ISR signed MoUs with below mentioned companies.

Datum Laboratories, Ankleshwar
Government Science College, Vankal
Eco Earth Technologies, Ankleshwar
Narmada Organic, Ankleshwar
Sargam Enterprise , Ankleshwar
Chromax Analyticals , Ankleshwar
Shreenath Chemical Industries , Ankleshwar
Snehal Dyes Industries, Ankleshwar
JIT Polycoat Enterprise , Ankleshwar



# “Industrial Visits”

Industry visits are crucial for university students as they bridge the gap between theoretical learning and real-world applications. These visits provide hands-on exposure to industry practices, helping students understand workplace dynamics, technologies, and professional expectations. By interacting with industry experts, students gain insights into current market trends, innovations, and career opportunities. Industry visits also enhance practical knowledge, improve problem-solving skills, and inspire innovation by exposing students to real challenges faced by businesses. SRICT-ISR students visited below listed Industries.

BEIL Infrastructure Limited,  
Ankleshwar

Enviro Technology Limited,  
Ankleshwar

Shree Ganesh Khand Udyog  
Sahakari Mandli Ltd., Vataria

Apex Pharma Chem, Ankleshwar

Eskay Iodine Pvt. Ltd., Jhagadia

Shree Ganesh Pigments Pvt. Ltd.,  
Ankleshwar

Eco Earth Technologies,  
Ankleshwar

Shree Ganesh Remedies Limited,  
Ankleshwar

Shree Ganesh Lifescience, Panoli

PLASMA EXHIBITION-2024

Hema Pharmaceutical Pvt. Ltd.,  
Ankleshwar

Snehal Dyes Industries,  
Ankleshwar

Shreenath Chemical Industries,  
Ankleshwar

Borosil Renewables Ltd., Jhagadia.

Reine Lifescience, Ankleshwar.

Jayshree Aromatics Pvt. Ltd,  
Ankleshwar

Sterlite organics, Panoli

Basic Pharma Life Science Pvt Ltd.,  
Ankleshwar



# “Results”

The results of students reflect their academic performance, growth, and understanding of subjects. High achievers demonstrate excellence, while others show areas for improvement. Consistent effort, peer learning, and mentorship contribute to better outcomes. Analyzing results helps in identifying strengths and weaknesses, guiding future learning strategies for overall student success.



UPL UNIVERSITY OF SUSTAINABLE TECHNOLOGY

Rotary Club of Chandigarh

**BSc. Chemistry [NEP 2020] Sem-2 Summer 2024**

**CONGRATULATIONS**

<b>PAÑDEY PALAK</b> SPI: 9.36 CPI: 9.09	<b>SURTI KRISHAKUMARI</b> SPI: 9.09 CPI: 9.00
<b>PAÑDEY SAPNA</b> SPI: 8.91 CPI: 8.63	<b>ANAND PAL</b> SPI: 8.82 CPI: 8.50
<b>PATIL POOJA</b> SPI: 8.82 CPI: 8.86	<b>JHA VIDYASAGAR</b> SPI: 8.55 CPI: 8.64

"Congratulations to all students for your outstanding results!"

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UPL UNIVERSITY OF SUSTAINABLE TECHNOLOGY

Rotary Club of Chandigarh

**B.S.C. SEM. 6 SUMMER-24 RESULT**

<b>Tanmay Fatangare</b> SPI: 9.91   CGPA: 9.83	<b>Nisha Pandey</b> SPI: 9.83 CGPA: 9.73	<b>Het Bhatt</b> SPI: 9.83 CGPA: 9.63	<b>Seema Ahir</b> SPI: 9.83 CGPA: 9.50		
<b>Mohammadzuned Kher</b> SPI: 9.74 CGPA: 9.90	<b>Omkar Desai</b> SPI: 9.74 CGPA: 9.85	<b>Tanu Yadav</b> SPI: 9.74 CGPA: 9.38	<b>Deep Goriya</b> SPI: 9.74 CGPA: 9.34		
<b>Sakshi Singh</b> SPI: 9.65 CGPA: 9.56	<b>Riyaz Bobat</b> SPI: 9.57 CGPA: 9.63	<b>Bhavika Prasad</b> SPI: 9.57 CGPA: 9.33	<b>Jigisha Patil</b> SPI: 9.57 CGPA: 8.63	<b>Sandeep Yadav</b> SPI: 9.39 CGPA: 9.46	
<b>M Zuhar Shaikh</b> SPI: 9.39 CGPA: 8.98	<b>Seema Sharma</b> SPI: 9.39 CGPA: 8.98	<b>Vaishnavi Dave</b> SPI: 9.39 CGPA: 8.98	<b>Bhavika Patil</b> SPI: 9.30 CGPA: 9.29	<b>Shrushti Patel</b> SPI: 9.30 CGPA: 9.09	<b>Aakash Singh</b> SPI: 9.30 CGPA: 8.73
<b>Krupali Patel</b> SPI: 9.04 CGPA: 9.02	<b>Roshani Chaurasiya</b> SPI: 9.04 CGPA: 8.77	<b>Janvi Kathvadiya</b> SPI: 9.04 CGPA: 8.70	<b>Jay Kachhadia</b> SPI: 9.04 CGPA: 8.49	<b>Tanisha Panchal</b> SPI: 8.96 CGPA: 8.50	<b>Ronak Vasava</b> SPI: 8.87 CGPA: 8.54

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# “Results”

Student results showcase their academic progress, highlighting strengths and areas for improvement. High achievers excel, while others benefit from guidance and support. Effective study techniques, peer learning, and mentorship enhance performance. Evaluating results helps refine learning strategies, fostering continuous growth and ensuring overall academic success for all students.







## UPL University of Sustainable Technology M.Sc. 2<sup>nd</sup> Semester Summer-2024

### ★ Congratulations Shining Stars ★

 DISHA A. VEKARIYA SPI: 9.89	 POOJA J. KHIRE SPI: 9.78	 NISHA D. VASAVA SPI: 9.78	
 KOMAL R. SPI: 9.67	 PRIYANKA P. RANA SPI: 9.56	 AAYUSHI H. MEHTA SPI: 9.44	 RINKAL D. AHIR SPI: 9.33
 PRIYA ASWAL SPI: 9.33	 HARSH A. PANDEY SPI: 9.22	 RUSHI V. SURTI SPI: 9.22	 VERIK D. PATEL SPI: 9
 DIVYA S. SHARMA SPI: 9	 VIJAY L. YADAV SPI: 9	 SOMDEEP S. SASMAL SPI: 8.89	 AVINASH U. SINGH SPI: 8.78
 CHANDANI V. CHAUHAN SPI: 8.78	 SAHIL B. DOBARIYA SPI: 8.78	 JAIMISHA A. GOHIL SPI: 8.78	 PAYAL B. PANCHAL SPI: 8.78

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## M.Sc. Sem. 4 Regular Summer -2024

### ★ Congratulations! ★



**Saiyed Rukhshar Afsar**  
SPI :- 10.00  
CGPA :- 9.71



**Kumbhar Drashti**  
SPI :- 10.00  
CGPA:-9.42



**Patel PiyushKumar**  
SPI :- 10.00  
CGPA :-9.57



**Makwana Maitry**  
SPI :- 10.00  
CGPA : \_9.53



**Dungarani Sagar**  
SPI :- 10.00  
CGPA :-8.83



**Dungarani Ashish**  
SPI :- 10.00  
CGPA :-8.4

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# “ABHYUTTHAN-2024”

ABHYUTTHAN-2024 is the Academic Awards Ceremony of UPL University of Sustainable Technology. The ceremony was held on September 20, 2024. The event honors the top students in various programs, including Diploma Engineering, Bachelor of Engineering, Postgraduate programs, and B.Sc.



# “2<sup>nd</sup> Convocation of University”

Convocation is a crucial milestone in a student’s academic journey, symbolizing the successful completion of their studies. It recognizes hard work, dedication, and achievements, fostering a sense of pride and accomplishment. The ceremony unites graduates, faculty, and families in celebration, inspiring students for future endeavours. In 2<sup>nd</sup> Convocation 54 Under Graduate and 78 Post Graduate students received their degrees.



B.Sc.



M.Sc.

# Research Activities





# “Research Papers”

Dr. Prakash Majee from the Department of Chemistry at SRICT-ISR, UUST has published three research article in reputed journals.

## Inorganic Chemistry

pubs.acs.org/IC

Article

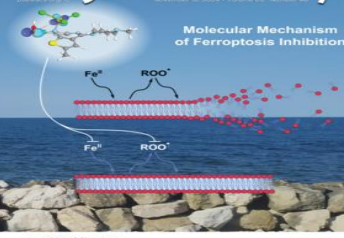
### pH-Independent Selective Formation of VO<sub>2</sub><sup>+</sup> Motif Incorporating a Family of Hydrazone Ligands: Synthesis, Structure, and Luminescence-Based Sensing Studies toward Selective Metal Ions

Bipul Mondal,<sup>\*</sup> Priyanka Manna, Debal Kanti Singha, Prakash Majee, Sahil Azam, Subhajit Dutta, Sourangshu Halder, Tapas Ghosh,<sup>\*</sup> Sudip Kumar Mondal,<sup>\*</sup> and Partha Mahata<sup>\*</sup>

Cite This: *Inorg. Chem.* 2024, 63, 22203–22213

Read Online

## Inorganic Chemistry



Journal of Physics and Chemistry of Solids 196 (2025) 112402

Contents lists available at ScienceDirect

Journal of Physics and Chemistry of Solids

journal homepage: [www.elsevier.com/locate/jpcs](http://www.elsevier.com/locate/jpcs)

### Redox-mediated synthesis of Cu<sub>2</sub>O/CuO/Mn<sub>3</sub>O<sub>4</sub>/C quaternary nanocomposites as an efficient electrode material for oxygen reduction reaction and supercapacitor application

Avinash Sharma<sup>a,1</sup>, Yadagiri Naik Banothu<sup>b,1,\*</sup>, Prakash Majee<sup>a,c</sup>, Sonu Kumar<sup>a</sup>, Mithilesh Prajapati<sup>d</sup>, Kishant Kumar<sup>d</sup>, Mukul Pradhan<sup>a,2</sup>

<sup>a</sup> Department of Chemistry, National Institute of Technology Warangal, Warangal, 506004, Telangana, India

<sup>b</sup> DRDO Young Scientists' Laboratory for Smart Materials, Ministry of Defence, Kanchanbagh, Hyderabad, 500058, India

<sup>c</sup> Department of Chemistry, LPU University of Sustainable Technology, Vavaria, 393135, Gujarat, India

<sup>d</sup> Department of Chemical Engineering, Indian Institute of Technology Ropar, Rupnagar, 140001, Punjab, India



## ACS Sustainable Resource Management

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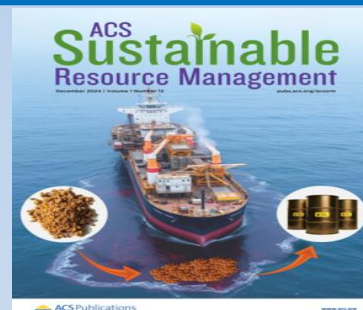
Article

### Conversion of Waste Tecoma Leaves into Heteroatom Doped Graphitic Carbon via a One-Step Chemical Activation Method for the Catalytic Oxygen Reduction Reaction and Supercapacitor Application

Avinash Sharma,<sup>#</sup> Prakash Majee,<sup>#</sup> Pooja, Ravinder Pawar, Yadagiri Naik Banothu,<sup>\*</sup> and Mukul Pradhan<sup>#</sup>

Cite This: <https://doi.org/10.1021/acssusresmg.4c00329>

Read Online



Dr. Nikhil Parekh from the Department of Chemistry at SRICT-ISR, UUST has published research article in reputed journal.

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 325 (2025) 125114

Contents lists available at ScienceDirect

Spectrochimica Acta Part A:  
Molecular and Biomolecular Spectroscopy

journal homepage: [www.journals.elsevier.com/spectrochimica-acta-part-a-molecular-and-biomolecular-spectroscopy](http://www.journals.elsevier.com/spectrochimica-acta-part-a-molecular-and-biomolecular-spectroscopy)



### Synthesis and antibacterial evaluation of (5Z)-5-[(2-piperidinequinoline-3-yl)methyl]-2-chloroquinoline derivatives: Docking study on substituted N-alkylation and binding mechanisms with E. Coli PDF enzyme

K.V. Juddhawala<sup>a</sup>, Nikhil M Parekh<sup>b,\*</sup>, Abdullah Alswieleh<sup>c</sup>, Karuppiyah Nagaraj<sup>d,\*</sup>

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<sup>b</sup> Department of Chemistry, SRICT Institute of Science & Research, LPU University of Sustainable Technology, Ankleshwar, India

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<sup>d</sup> Department of Chemistry, Faculty of Engineering, Karpagam Academy of Higher Education, Coimbatore 641021, Tamilnadu, India



# Faculty Achievements



# “Faculty Achievements”

## Lectures Delivered

An expert possesses deep knowledge, extensive experience, and specialized skills in a particular field. They analyze complex problems, provide innovative solutions, and guide decision-making. Continuous learning, critical thinking, and adaptability define their expertise. Experts contribute through research, mentorship, and application of best practices, ensuring advancement in their domain.

**EXCLUSIVE EXPERT TALK**

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**Title of the talk:**  
Hierarchically porous catalyst for concurrent esterification and transesterification of inedible oil: A commitment to sustainability

**Speaker: Dr. Mehul L. Savaliya**  
Assistant Professor, Department of Chemistry  
UPL University of Sustainable Technology  
Ankleshwar

**SEPTEMBER 19, 2024**  
**11:00 AM IST**

**SEMINAR ROOM**  
**GSC, VANKAL**

**GOVERNMENT SCIENCE COLLEGE**  
Vankal

**Conversion of waste biomass into metal-free graphitic carbons for electrocatalytic oxygen reduction and supercapacitor applications**

**“International Conference on Recent Advances on Green Catalysis and Drug Discovery (ICRAGCDD 2024)”**

At  
Akal University,  
Talwandi Sabo, Punjab

**UPL UNIVERSITY**  
OF  
SUSTAINABLE TECHNOLOGY

**Rotary**  
Ankleshwar

**Dr. Prakash Majee**  
Assistant Professor  
Department of Chemistry  
SRIC-T: Institute of Science & Research  
UPL University of Sustainable Technology  
Date: 05-09-2024

**UPL UNIVERSITY**  
OF  
SUSTAINABLE TECHNOLOGY

**“Copper Phthalocyanine Tetrasulfonic Acid as an Efficient Solid Acid Catalyst for Acid-Catalyzed Reactions”**

**“International Conference on Recent Advances on Green Catalysis and Drug Discovery (ICRAGCDD 2024)”**

At  
Akal University,  
Talwandi Sabo, Punjab

**Dr. Siddharth S. Patel**  
ASSISTANT PROFESSOR  
DEPARTMENT OF CHEMISTRY  
INSTITUTE OF SCIENCE AND RESEARCH

**Certificate of Appreciation**

This is to certify that  
Dr. PRASHANT ARYA  
from UPL UNIVERSITY OF SUSTAINABLE DEVELOPMENT  
has delivered an invited lecture on “DNA REPLICATION”  
in 15 Days Intensive “Crash Workshop” from 16<sup>th</sup> - 30<sup>th</sup> December 2024,  
sponsored by Network of Biotechnology Capacity Building Cells (N-BT-CBC) of Gujarat  
State Biotechnology Mission (GSBTM) for Preparation of National Level Competitive Exams  
in Biological Sciences for admission in PG courses.

Organized by  
Undergraduate Capacity Building Cell (UG-CBC),  
**Government Science College, Vankal, (Surat)**

**Mr. Rajesh M. Gohil**  
II (Principal)

**Dr. Anil Kumar Singh**  
(Coordinator, UGCBC)

**Dr. Hemal Vankar**  
(Deputy Coordinator, UGCBC)

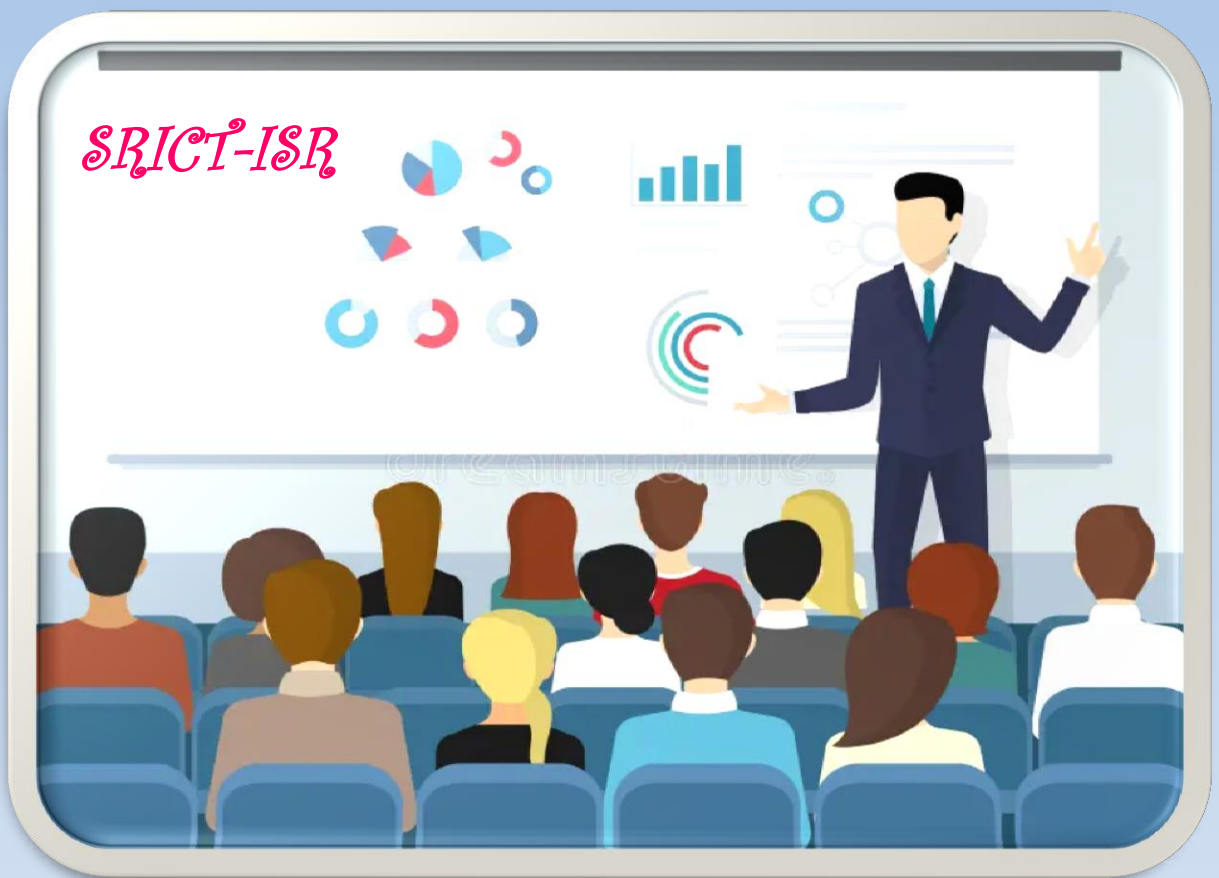
# “Faculty Achievements”

## Seminar/Conference attended

Attending seminars or programs enhances knowledge, fosters networking, and provides insights into the latest trends and research. It helps in skill development, professional growth, and staying updated with industry advancements. Engaging with experts and peers encourages innovation, collaboration, and career opportunities, making participation essential for continuous learning and success.



# FDP/Seminar/Conference



# “FDP/Seminar/Conference Organized”

## FDP program on "Bhagavad Gita"- An approach towards stress mitigation & holistic well-being

SRICT- Institute of Science & Research, UPL University of Sustainable Technology, Ankleshwar has organized a faculty development program on "Bhagavad Gita"- an approach towards stress mitigation & holistic well-being under the banner of IQAC Cell on 17-08-2023. The talk has been delivered by eminent speaker Dr. Haresh Shah, the Founder Swami Vivekananda Centre, GIDC. Around 80 faculty and staff members of various Departments of UPL University of Sustainable Technology have actively participated. The whole event has been coordinated by Dr. Prakash Majee with a kind support from Dr. Nikhil Parekh and Dr. Mehul L. Savaliya of SRICT- ISR.



# “FDP/Seminar/Conference Organized”

## Seminar on “Mental Health & Wellness of students

The SRICT-ISR, UPL University of Sustainable Technology, Ankleshwar has organized a Seminar on “Mental Health & Wellness of students” In Association with District Education Office, Bharuch on 11th September 2024 for the Principals and Teachers of various schools across the Bharuch district. The seminar is graced by the esteemed presence of Mrs. Swatiba K. Raol, Hon’ble District Education Officer, Bharuch, Mr. Ashok Panjwani, Hon’ble President, UPL University of Sustainable Technology, Ankleshwar and Mrs. Michelle Ganeshni, Campus Director, Shree Gattu Vidhyalaya, Ankleshwar and Inclusive Trainer of UNESCO International Forum. More than 125 principals and teachers of various schools across the Bharuch district have participated with great enthusiasm..



# “FDP/Seminar/Conference Organized”

## Awareness program on Fueling Innovations: “Securing Funding through GSBTM's E-CBC Scheme”

The SRICT-ISR has organized an awareness program on Fueling Innovations: “Securing Funding through GSBTM's E-CBC Scheme” on 11-10-2024, under an umbrella of Entrepreneurship Capacity Building Cell (E-CBC), Gujarat State Biotechnology Mission, Department of Science & Technology, Govt. of Gujarat, Gandhinagar. Dr. Anil Kumar Singh, Coordinator, UG-CBC, Government Science College, Vankal has delivered an insightful talk in an awareness program.

UPL  
UPL UNIVERSITY  
SUSTAINABLE TECHNOLOGY  
GSBTM  
Department of Science & Technology  
Gandhinagar  
Dsi  
Rotary  
Aishikshwari

Entrepreneurship Capacity Building Cell (E-CBC)

An Awareness Program on  
**Fueling Innovation:  
“Securing Funding  
through GSBTM's E-CBC  
Scheme”**

11th October, 2024

- ✓ Ideas to innovations
- ✓ Funding opportunities
- ✓ Mentoring from subject experts
- ✓ Networking opportunities
- ✓ Innovations under lifesciences

More info  
[www.upluniversity.ac.in](http://www.upluniversity.ac.in)  
Contact us  
98252 93173

**Funding upto 9 Lakh**

**Dr. Anil Kumar Singh**  
Assistant Professor  
Coordinator, E- CBC Scheme  
Gov. Sci. College, Vankal



# “FDP/Seminar/Conference Organized”

## Awareness session on “Gateway to Excellence: Preparing for National Exams for Life Science PG Programs”

The SRICT-ISR has organized an awareness session on “Gateway to Excellence: Preparing for National Exams for Life Science PG Programs” on 11-10-2024, under an umbrella of Gujarat State Biotechnology Mission, Department of Science & Technology, Govt. of Gujarat, Gandhinagar. Dr. Anil Kumar Singh, Coordinator, UG-CBC, Government Science College, Vankal has delivered an insightful talk on Gateway to Excellence



# “FDP/Seminar/Conference Organized”

## Faculty Development Program (FDP) on “How to Face Challenges in the VUCA World: (Volatile, Uncertain, Complex and Ambiguous World)”

The SRICT-ISR, UPL University of Sustainable Technology are delighted to extend a warm invitation to you for the upcoming Faculty Development Program (FDP) on “How to Face Challenges in the VUCA World: (Volatile, Uncertain, Complex and Ambiguous World)”, organized by SRICT-ISR, UPL University of Sustainable Technology. This session will be delivered by our esteemed guest speaker Mr. Sushil Aggarwal, the Founder & Chairman of AVRO India Limited.



# “FDP/Seminar/Conference Organized”

## One-Day Online Training Program on Computational Tools for Drug Discovery in Chemical, Pharmaceutical & Life Sciences

On October 23, 2024, the SRICT-ISR has organized a One-Day Online Training Program on Computational Tools for Drug Discovery in Chemical, Pharmaceutical & Life Sciences. It is a promise to provide insightful knowledge and practical skills in the rapidly evolving field of bioinformatics and computational drug discovery. The 216 participants from various institutions and organizations including various industries across India have actively participated in the online training program. Dr. Manish has shared and discussed valuable insights on vaccine development, drug discovery, and disease surveillance through a multidisciplinary approach. Dr. Dhaval Patel, enlightened us on structural bioinformatics and biophysics, focusing on protein structure-function relationships and Dr. Chickoo Cherian has shared her expertise on “Innovative solutions combining bioinformatics and AI for pharmaceutical and scientific advancements”.



# Co-curricular Activities



# “Days Celebration”

## “Indian Constitution Day Celebration”

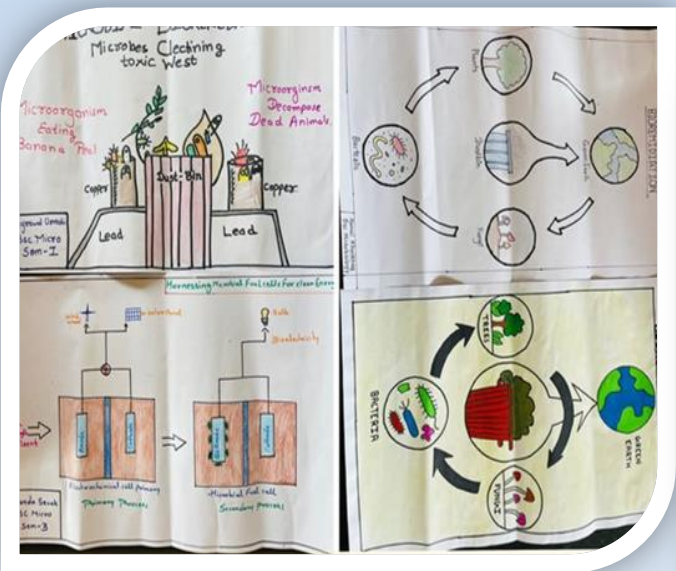
NSS team of UPL University celebrated Indian Constitution Day on 26/11/24 at university campus. During the activity an informative session was conducted by Mr. Apurba C., Asst Prof. and Ms. Amrita Parmar, Lab Asst. from Chemical Technology on the topic 'Historical Significance and Importance of the Indian Constitution.' Also, more than 10 presentations were conducted by NSS volunteers, At the end of the program, all students took part in reading the Preamble of the Indian Constitution, which was one of the proud moments of the event." More than 80 NSS volunteers participated in the program.



# “Days Celebration”

## “Celebrating World Microorganism Day: A Resounding Success”

The SRICT-Institute of Science and Research (ISR) celebrated World Microorganism Day on 23-24 September 2024. A total of 52 students from Microbiology and Chemistry departments have participated in various scientific events like Essay Writing, Extempore, Poster Making, Microbial Sci-toon. This celebration showcased the students' scientific prowess and creativity, fostering a spirit of collaboration and healthy competition. The event is coordinated by Dr. Prashant Arya..



# “Days Celebration”

## “Teachers Day Celebration”

Teachers' Day celebration in a university is a heartfelt tribute to educators who shape students' futures. The event usually begins with a formal ceremony where students express gratitude through speeches, poems, and heartfelt messages. Cultural performances, including music, dance, and skits, add vibrancy to the occasion. Fun activities, games, and award ceremonies recognize the dedication of teachers. Some universities also organize interactive sessions where students and faculty share memorable experiences. Gifts and tokens of appreciation are presented to professors as a gesture of respect. The celebration fosters a strong teacher-student bond, making the day special and memorable for all.



# “NSS / NCC Activities ”

## “NSS 7 Days Camp”

UPL University of Sustainable Technology has completed 7 days NSS camp with 28 Students under the guidance and support of Mr. Ashok Panjwani, President UPL University and Dr. Shrikant Wagh, Provost UPL University was organised from 17/09/2024 to 23/08/2024 at Thava Village near Netrang Taluka.

Activities Completed during camp : Tree Plantation, Awareness on Deaddiction, Rural Survey, AIDS Awareness, Cancer Awareness, Digital Literacy, Electricity Saving, Girls Education, Women Empowerment, Nukkad Natak, First Aid Training, Eye Check-up Camp, Cultural Activity.



# “Placements”

## Placement of M.Sc. Chemistry final year students

The placement of M.Sc. final-year students is a crucial step in their career journey. Universities collaborate with top companies to provide job opportunities through campus recruitment drives. Students undergo training in resume building, interviews, and skill development. Successful placements enhance career prospects, ensuring a smooth transition into professional roles.

UPL UNIVERSITY OF SUSTAINABLE TECHNOLOGY  
**WANKHEDE SAGAR VIJAYBHAI**  
M.Sc.-CHEMISTRY  
BATCH M.Sc.-2022  
PLACED AT  
**Reliance Industries Limited**  
CONGRATULATIONS  
MORE INFORMATION : [WWW.UPLUNIVERSITY.AC.IN](http://WWW.UPLUNIVERSITY.AC.IN)

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**ASHISH JOSHY**  
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**CHEMCRUX ENTERPRISES LTD.**  
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**R Raks Pharma**  
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Our Website [WWW.UPLUNIVERSITY.AC.IN](http://WWW.UPLUNIVERSITY.AC.IN)

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**LUPIN**  
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**Reliance Industries Limited**  
BATCH M.Sc.-2022  
MORE INFORMATION : [WWW.UPLUNIVERSITY.AC.IN](http://WWW.UPLUNIVERSITY.AC.IN)

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**CONGRATULATIONS**  
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M.Sc. - Chemistry  
PLACED AT  
**SUN PHARMA**  
BATCH M.Sc.-2022  
MORE INFORMATION : [WWW.UPLUNIVERSITY.AC.IN](http://WWW.UPLUNIVERSITY.AC.IN)

# “Students Achievements”

## “BIOTHON COMPETITION WINNERS”

SRICT-ISR Microbiology students (Sem 3) for excelling at the BIOTHON competition organized by Darshan University, Rajkot!.

**1st Prize Winners (₹11,000)**- Rudra Joshi- Bhakti Patel- Meet Patel

**Project Title: Sustainable Sparkers**

**Scientific Description:** Development of indigenous Microbial Fuel Cells (MFCs) for bioelectricity production, utilizing algae to generate biodiesel. This innovative approach harnesses microbial energy to create sustainable, eco-friendly solutions.

**3rd Prize Winners (₹2,000)**- Bhargavi Prajapati- Roshni Vasava- Rudra Patel- Prashant Arya

**Project Name: Karmayogi**

**Scientific Description:** Conversion of agro-food wastes into nutritious pet animal feed, reducing waste disposal issues and promoting circular economy. This project demonstrates efficient waste management and sustainable resource utilization.

Both project groups were Guided by: **Dr. Prashant Arya**



# SCI-F.Y.I.

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*S.P. Bhatnagar*

*1878-1978*



July 2024 - December 2024