

32nd ISCB INTERNATIONAL CONFERENCE (ISCB-2026)



Jointly Organized by:
Indian Society of Chemists & Biologists (ISCB)
Department of Chemistry, IIT (BHU), Varanasi, India

Date: 12-14 May, 2026

Venue: Department of Chemistry, IIT (BHU), Varanasi, India



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- P-1** **In situ generated β -FeOOH nanoparticles Catalyzed Transfer Hydrogenation of Nitroarenes using Hydrazine Hydrate**
Odao Ng'enyi Kichere^{a,b}, Geeta Davi Yadav^c, Surendra Singh^{a*}
^aDepartment of Chemistry, University of Delhi-110007, New Delhi India.
^bMinistry of Education, Science and Technology, Kasulu Teachers College, P.O.Box 3 Kasulu Tanzania.
^cDepartment of Chemistry, Kalindi College, University of Delhi-110007, New Delhi India.
- P-2** **Substitution-Driven Modulation of Crystal Packing and Turn-On Fluorescent Detection of Carbonate (CO₃²⁻) and Hydrogen Sulphide (H₂S)**
Ankita Pandey, Satyen Saha^{*}
Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi 221005
- P-3** **Fastest Catalytic Dearomatization of Arenols Employing an Unusual Arene- π -Tribromide Anion Complex**
Mr. Priyaranjan Sahoo*, Majid Ahmad Ganie^b, Dhurutiman Rout^a, Dr. Debayan Sarkar^{*}
Indian Institute of Technology Indore
- P-4** **Sustainable Green Synthesis of TiO₂ NPs from *Prunus salicina* 'Santa Rosa' and Their Application in Dye-Sensitized Solar Cells**
Bhawana Tripathi, Suman Kushwaha^{*}
Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, Uttar Pradesh, 221005, India.
- P-5** **MAX to MXene: Bridging Advanced Materials and Multifunctional Applications**
Isha¹, Amjad Ali^{1*}
¹Department of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala 147004, India
- P-6** **Ultrasound-assisted ring opening of epoxides in HFIP: THF: Synthesis, characterization, computational studies and molecular docking of novel 2-hydroxy dithiocarbamates**
Nitish Yadav^a, Vishal Prasad Sharma^a, Amit Patel^a, Ashish Kumar Tewari^{*}
Department of Chemistry (Centre of Advanced Study), Institute of Science, Banaras Hindu University, Varanasi-221005, India
- P-7** **Development of Morita-Baylis-Hillman Reaction using *N*-Aryl Acrylamides as a Micheal acceptor**
Mansingh Bairwa, Rakesh Kumar Verma, Juli Saini and Dr. Kishor Chandra Bharadwaj^{*}
Department of Chemistry, Institute of Science, Banaras Hindu University
- P-8** **Stitching β -Ketothioamides with *N*-Tosylbenzoquinone imine: Transition-Metal Free Site-Selective Domino Synthesis of 2-Amino-3-aryl-5-sulfonamide Substituted Benzo[b]furans**
Nimisha Gupta,^a and Maya Shankar Singh^{a,*}
^aDepartment of Chemistry, Institute of Science, Banaras Hindu University

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- P-9** **Safety and Efficacy of a Classical formulation (Palashadi Basti) for PCOS Management: From Preclinical Toxicity Profiling to Clinical Validation**
N. Rajak¹; P. Chouhan²; and N. Garg^{1*}
¹Department of Medicinal Chemistry, Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Varanasi-221005
²Department of Prasuti Tantra, Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Varanasi-221005
- P-10** **Metal-Free α -Sulfonylation of β -Ketothioamides: Access to α -Sulfonyl- β -Ketoamides**
Vipin Kumar^a and Maya Shankar Singh^{a*}
^aDepartment of Chemistry, Institute of Science, Banaras Hindu University
- P-11** **Microenvironment-Regulated Self-Assembly Governs Tunable Emission for Targeted Lipid Droplet Imaging**
Anjali Pandey, Satyen Saha
Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi 221005, India
- P-12** **Visible-light induced C-N bond Formation from 6-Aminouracil and Aryl Iodide**
Divya Singh, Sundaram Singh*
Department of Chemistry, Indian Institute of Technology (BHU), Varanasi-221005, U.P., India
- P-13** **Mapping the Variant Spectrum in β -Thalassemia: Insights from Targeted Next-Generation Sequencing of a Case-Control Cohort from Gujarat, India.**
Darshana Musini, Siddhartha Ghosh, Urvi Budhbhatti, Amrutlal Patel, Snehal Bagatharia, Bhumika Prajapati *
Gujarat Biotechnology Research Centre (GBRC), Department of Science & Technology, Government of Gujarat, 6th Floor, M. S. Building, Sector 11, Gandhinagar, Gujarat- 382011, India
- P-14** **The development of a robust folded scaffold as a fluorescent material using Butylidene-linked pyridazinone-based systems via aromatic π •• π stacking interactions.**
Akanksha Yadav, Priyanka Yadav and Ashish Kumar Tewari*
Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi-221005, India
- P-15** **Flower-like NiAl-LDH/BiVO₄ Z-Scheme Photocatalysts for Sunlight-Driven Degradation of Azo Dye: Performance and Mechanistic Insights**
Manpreet Kaur^a, Pritam Hait^a, Soumen Basu^{a*}
^aDepartment of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Patiala-147004, Punjab, India

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- P-16** **Engineering Synergistic High-Entropy Spinel Oxide for Sustainable and High-Performance Oxygen Evolution Reaction**
Bikash Kumar Maity, Prof. Soumen Basu*
Department of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology (TIET), Patiala, Punjab, 147004
- P-17** **From Preservative to Pathology: Sodium Benzoate Triggers Insulin Resistance and Muscle Atrophy**
Ashwani Mittal*, Anita Dua
Skeletal Muscle Lab, Department of Biochemistry, Institute of Integrated & Honors Studies, Kurukshetra University, Kurukshetra, Haryana, India
- P-18** **Visible-Light-Induced Flavin Catalysis: A Green Route to Naphtho[2,1-b]furans via an *o*-(Naphtho)quinone Intermediate**
Bhabani Sankar Lenka, Dr. Debayan Sarkar
Email: sarkard@iiti.ac.in
- P-19** **Visible-light-Initiated decarboxylative acylation of unsaturated hydrocarbons with Keto acid via Csp² –Csp² cross-coupling**
Ankur Yadav and Sundaram Singh*.
Department of Chemistry, Indian Institute of Technology (BHU), Varanasi– 221005, U.P., India
- P-20** **Nitrogen atom insertion into N=N double bonds: direct access to triazenes**
Prashant Kumar, Ruchir Kant, Namrata Rastogi*
Medicinal & Process Chemistry, CSIR-CDRI, Lucknow, Uttar Pradesh, India
- P-21** **Designing DPP-4 inhibitors: Synthesis, characterization, in silico & in vitro evaluation, and theoretical calculation of flexible compounds linked via ortho xylyl spacers**
Muhammad Sheraj Vipin Kumar, Ashish Kumar Tewari*
Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi 221005, Uttar Pradesh, India, 22100
- P-22** **EFFECT OF ATLANTIS WEEDICIDE (MESOSULFURON METHYL 3% + IODOSULFURON METHYL SODIUM) ON MYCORRHIZAL FUNGI OF WHEAT CROP**
Anil Gupta*
Department of Botany, IIHS, Kurukshetra University, Haryana, India
- P-23** **Preparation of 1T/2H MoS₂@g-C₃N₄ nanocomposites for electrochemical detection of chlorpyrifos pesticides**
Himshikha Malviya^a Anshu Kumar Singh^a and Jay Singh^{a*}
^aDepartment of Chemistry, Institute of Sciences, Banaras Hindu University. Varanasi (221005), Uttar Pradesh –India

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- P-24** **Metal-free visible-light-driven synthesis of amides from phenylglyoxylic acid and phenylhydrazine using eosin Y as a Photocatalyst**
Sandeep Kumar^a, Sundaram Singh^{a*}
Department of Chemistry, Indian Institute of Technology (BHU), Varanasi – 221 005, UP, India.
- P-25** **SEQUENTIAL COLORIMETRIC SENSING OF IODIDE AND GLUTATHIONE VIA ANTI-AGGREGATION AND AGGREGATION OF DIAZO-CAPPED GOLD NANOPARTICLES**
Prachi Patel, Neetu Meena, Shalini Kashyap, Aman Dixit, Saumya Singh, Kaushal Kumar Upadhyay*
Department of Chemistry (Centre of Advanced Study), Institute of Science, Banaras Hindu University, Varanasi 221005, India
- P-26** **Design and Synthesis of Lawsone-linked N-Heterocyclic Hybrid Scaffolds as Promising Antimicrobial Agents**
Mohit K. Upadhyay, Satyam Srivastava, Harish C. Upadhyay*
Laboratory of Chemistry, Department of Applied Sciences, Rajkiya Engineering College (Affiliated with Dr. A.P.J. Abdul Kalam Technical University, Lucknow), Churk, Sonbhadra-231206, India
- P-27** **Photoinduced Condensation of Methyl Arene with Active Methylene Compounds via C(sp³)-H Functionalization**
Saumitra Singh and Sundaram Singh*
Department of Chemistry, Indian Institute of Technology (BHU), Varanasi-221005, U.P., India
- P-28** **“Beyond Survival: Probiotic Resilience to Heavy Metal Exposure and Oxidative Stress”**
Isha Dave, Akiba Shaikh and G. Archana*
Department of Microbiology and Biotechnology Centre, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodra-390002, Gujarat, India
- P-29** **Design, Synthesis and Biological Assessment of Anthraquinone bis-1,2,3-triazolyl Macrocyclic and its Anticancer Application**
Shristy Maurya, Rakesh K. Singh and Vinod K. Tiwari
Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, India
- P-30** **Stereoselective synthesis of Deoxy Sugar and Glycoside Assembly via Pd-Catalysed, TFA Activation and Lewis Acid Mediation**
Bindu Tiwari, Ram Pratap Pandey, and Dr. Nazar Hussain*
Department of Medicinal Chemistry, Institute of Medical Sciences, Banaras Hindu University, Varanasi-221005, India
- P-31** **N-(Arylthio)phthalimide as thiol alternatives in Csp²-S coupling reactions using aryldiazonium tetrafluoroborate salts**
Prince Kumar and Sundaram Singh*
Department of Chemistry, Indian Institute of Technology (BHU), Varanasi– 221005, U.P., India

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- P-32 Redox-Neutral electrochemical Diazo Coupling: Controlled Synthesis of Olefins and Azines via modulating reaction conditions**
Abinash Mohapatra and Vikas Tyagi*
Department of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala-147004, Punjab, India
- P-33 From Parent to Progeny: Computational Design and Evaluation of Nitrogen-Rich, Hydrogen-Free Energetic Materials Inspired by the Heat-Resistant TACOT Skeleton**
Renu Rani, Vikas D. Ghule*
^aDepartment of Chemistry, National Institute of Technology Kurukshetra, Kurukshetra-136119, Haryana, India
- P-34 Fusion of FOX-7 and HMX framework via diamino bridges: A DFT study on insensitive high-energy explosives**
Arzoo Gupta, Vikas D. Ghule*
Department of Chemistry, National Institute of Technology Kurukshetra, Kurukshetra-136119, Haryana, India.
- P-35 In Silico Design and Energetic Performance Analysis of Dinitroheterocycle-Substituted Fused Furazan–Pyrazine System**
Sagrika Kashyap, Vikas D. Ghule*
Department of Chemistry, National Institute of Technology Kurukshetra, Kurukshetra-136119, Haryana, India.
- P-36 Engineered Single Nucleobase-Derived Bionanozyme with Oxidase-Like Activity for and Environmental Applications**
Eshanee Singh & Pandeewar Makam*
Department of Chemistry, Indian Institute of Technology (BHU), Varanasi, U. P.-221005, India.
- P-37 Bi₂S₃ as an efficient Photocatalyst for enhanced photo-Fenton degradation of Ciprofloxacin**
Keshnath Yadav, Indrajit Sinha^{1*}
Department of Chemistry, Indian Institute of Technology (Banaras Hindu University), Varanasi 221005, India.
- P-38 “Citric acid-functionalized Mo-doped CoFe₂O₄ nano-adsorbents for co-adsorption of organic pollutants: experimental and computational insights”**
Rahul Arya (1), Anshu Shrivastava (1), Nivedita Singh (1), Indrajit Sinha (1) *
(1) Department of Chemistry, Indian Institute of Technology (Banaras Hindu University), Varanasi 221005, India
- P-39 A Facile Method for Oxyhalogenation of Thiols and Disulfides to Sulfonyl Fluorides**
Chandra kant Maurya [#] and Pradeep Kumar Gupta¹
¹Synthetic Chemistry Division, Defence Research & Development Establishment (DRDE) Jhansi Road Gwalior (MP) 474002

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- P-40** **Trifluoromethoxy-Schiff base vanilloxyl mesogens: phase transitions and bioactivity**
PALKESHBHAI NILESHKUMAR CHAUHAN
- P-41** **SYNTHESIS AND CHARACTERIZATION OF 2,7-DICHLORO-6-FLUORO-3-(((SUBSTITUTED)HYDRAZONO)METHYL)QUINOLINE SKELETON AND THEIR BIOLOGICAL SCREENING**
Solanki Nitesh, Arvnabh Mishra
Shri Govind guru University, Vinzhol, Godhara
- P-42** **High-Resolution Characterization of Å-nm Scale Pores During the Electrical Breakdown of the Lipid Bilayer Membranes**
Km Mamata Patel, Saurabh Chaubey, Ayushi Kumari, Prabhat Tripathi*
Indian Institute of Technology, (Banaras Hindu University), Varanasi, 221005
- P-43** **Emerging Small Organic Chemosensors for Optical Detection of Biorelevant Species**
Avjot Kaur and Jaspreet Kaur Rajput*
Department of Chemistry, Dr B R Ambedkar National Institute of Technology, Jalandhar-144008, Punjab, India
- P-44** **Magnetically recyclable phytogetic MBC-ZnO nanocomposite for sustainable environmental cleanup**
Yogendra Pal Singh, Rajat Singh, Dhanesh Tiwary *
Department of Chemistry, Indian Institute of Technology (Banaras Hindu University), Varanasi, 221005, India
- P-45** **One-Pot Access to Tetrasubstituted 2-Aminothiophenes via Regio- and Chemoselective Domino Reactions of Dithioesters with Fumaronitrile at Room Temperature**
Anup Kumar Yadav,^a Vipin Kumar,^a and Maya Shankar Singh^{a,*}
Department of Chemistry, Institute of Science, Banaras Hindu University
- P-46** **Strengthening Early Dengue Diagnosis Through Molecular Biomarker Development and Clinical Validation**
Dimple Kothari¹, Niralee Patel*
Department of Microbiology, Faculty of Science, Marwadi University, Rajkot, India.
- P-47** **Sustainable Advances in Nanomaterial-Enhanced Organic Rankine Cycle for Low-Grade Waste Heat Recovery**
Mayank Srivastava^{1a}, Jahar Sarkar², Sandip Kumar Saha^{1b}
^{1a}Post Doctorate Fellow, Department of Mechanical Engineering, Indian Institute of Technology Bombay, Mumbai, Maharashtra-400076, India.
^{1b}Professor, Department of Mechanical Engineering, Indian Institute of Technology Bombay, Mumbai, Maharashtra-400076, India.
²Professor, Department of Mechanical Engineering, Indian Institute of Technology (B.H.U.), Varanasi, UP-221005, India.

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- P-48** **Cobalt-peptide based (Co-P) bionanozyme with catechol-like activity for chiral recognition**
Vijay Kumar Patel, Pandeewar Makam*
Department of Chemistry, Indian Institute of Technology (BHU), Varanasi, India 221005
- P-49** **Valorization of *Camellia sinensis* waste for recovery of bioactive phytochemicals and their antioxidant potential**
Aakanksha Mittal, Pammi Gauba, Vibha Rani*
Transcriptome Laboratory, Centre of Excellence in Emerging Diseases, Department of Biotechnology, Jaypee Institute of Information Technology, Noida, India
- P-50** **Methanol Steam Reforming for Sustainable On-Site Hydrogen Production**
Shyamali Tiwari¹, Rajesh Kumar Upadhyay, Yogesh Chandra Sharma¹*
*1 Department of Chemistry, Indian Institute of Technology (BHU) Varanasi, Varanasi 221005, India.
2 Department of Chemical Engineering & Technology, Institute of Technology (BHU) Varanasi, Varanasi 221005, India.*
- P-51** **Understanding the Behaviour of Knotted and Unknotted Proteins using all Atom MD Simulation**
Sonia, Prabhat Tripathi*
Department of Chemistry, Indian Institute of Technology (Banaras Hindu University) Varanasi.
- P-52** **Nitrate Electrosynthesis on Cation-Vacancy-Rich FeSb₂O₄ Microrods via Controlled Ammonia Dehydrogenation**
Deepak Kumar Sahu[†], Hirak Kumar Basak[†] and Biswarup Chakraborty*[†]
[†]Department of Chemistry, Indian Institute of Technology Delhi, Hauz Khas, 110016, New Delhi, India
- P-53** **Dual-Mode Fluorescent Sensors for Rapid Detection of Hydrogen Sulphide: Applications in Food Spoilage Monitoring**
Yohaeswari Jegadeesan, Sankarasekaran Shanmugaraju*
Department of Chemistry, Indian Institute of Technology Palakkad, Palakkad-678623 Kerala
- P-54** **High Resolution Latent Fingerprinting by AIE-active Light Harvesting BODIHYs and pH-Induced Configurational Molecular Switching in Hydrazones**
Durgendra Yadav^a, Vishwa Deepak Singh^b, Anjani Kumar^a, Surendra Kumar^a, Roop Shikha Singh^{a*}
*^aDepartment of Chemistry, Institute of Science, Banaras Hindu University, Varanasi- 221 005 (U. P.) India
^bDepartment of Chemistry, D.A.V. P.G. College, Gorakhpur – 273001 (U. P.) India*
- P-55** **Ultrasensitive detection of Uric acid via K-Intercalated MXene modified GCE**
Sareen, Jaspreet Kaur Rajput*, Balbir Singh Kaith*
Department of Chemistry, Dr B R Ambedkar National Institute of Technology, Jalandhar-144008 (Punjab), India

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- P-56** **Fluorometric and Smartphone-Enabled Colorimetric RGB-Based Quantification of Au(III) Ions Using Fluorescein-Based Organic Compound**
Arvind Singh, Jaspreet Kaur Rajput*
Department of Chemistry, Dr B R Ambedkar National Institute of Technology, Jalandhar-144008 (Punjab), India
- P-57** **Novel Ru(II)-Photo-antibiotics for Development of Infection-Resistant Mask Coatings**
Arif Ali Mandal,^[1] Srijan Singh,^[1] Prodyut Dhar,*^[2] Samya Banerjee*^[1]
^[1]*Department of Chemistry, Indian Institute of Technology (BHU), Varanasi-221005, India.*
^[2]*School of Biochemical Engineering, Indian Institute of Technology (BHU), Varanasi-221005, India.*
- P-58** **Fluorescence Probes for On-Site Biogenic Amine Sensing: A Biomarker of Food Freshness**
Jyoti Rani, Jaspreet Kaur Rajput*
Department of Chemistry, Dr B.R. Ambedkar National Institute of Technology, Jalandhar-144008, Punjab, India
- P-59** **Enantioselective [4+2] Annulation Reaction of C1-Ammonium Enolate and Azadiene for 3,4-Dihydroquinolinones Synthesis**
Divakar Chaudhary, Akshay Mina, Sunil Singh, and Rakesh K. Saunthwal*
Department of Chemistry, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand 247667, India
- P-60** **Screening of Surface-Active Microbial Strains Utilizing Hydrocarbon Substrates.**
Divya Mori, Nikitasinh Gohil*
Department of Microbiology, Faculty of Science, Marwadi University, Rajkot, Gujarat 360003, India.
- P-61** **Evaluation of Tyrosine Kinase Inhibitors as a potential PPAR- γ modulator for the treatment of Type 2 Diabetes Mellitus using *in-silico* approach**
Srashti Verma¹, Tejas Dhameliya², Palak Parikh³, Snehal Patel^{1*}
¹*Department of Pharmacology, Institute of Pharmacy, Nirma University, Ahmedabad, Gujarat 382481, India*
²*Department of Pharmaceutical Chemistry, Institute of Pharmacy, Nirma University, Ahmedabad, Gujarat 382481, India*
³*Department of Pharmaceutical Chemistry, L.M. College of Pharmacy, Ahmedabad, Gujarat 382481, India*
- P-62** **Metal–Organic Framework (HKUST-1) as a Novel SERS-Active Substrate**
Nitu Singh¹, Ajay Kumar Bind¹ and V. Ramanathan^{1*}
¹*Department of Chemistry, Indian Institute of Technology (BHU) Varanasi, Uttar Pradesh India*
- P-63** **Isolation and purification of phycocyanin from Nostochopsis lobatus HKAR-21**
Ayushi Kumari, Yogita Rani, Km Mamata Patel, Saurabh Chaubey, Payel Rana, Prabhat Tripathi*
Indian Institute of Technology (Banaras Hindu University), Varanasi 221005

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- P-64** **Synthesis, X-ray crystal structures and DFT calculations of Ru(II) complexes of dioxime, diimine and oxime-imine ligands derived from 2,6-diacetyl pyridine**
Sumita Hazra,^{*a,b} Shyamal Kumar Chattopadhyay^{*.b}
^aDepartment of Chemistry, St. Xavier's College, Ranchi-834001, India, sumitanaskarhazra@gmail.com (S. Hazra)^a
^bDepartment of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah 711103, India.
- P-65** **A Synthetic Antibiotic Class Targets Bacteria with a Two-Pronged Approach**
Akash Dutta, Venkateswarlu Yarlagadda*
Department of Chemistry, Indian Institute of Technology Bombay, Powai. Mumbai – 400076, India
- P-66** **Elucidating the Synergistic Mechanisms of Pyocyanin and Vitamin C Formulations in Modulating Hyperpigmentation**
Anika B^{1#}, Swarna B S¹, Usha Y Nayak², Bharath Prasad A S^{1*}
¹ Department of Public Health Genomics, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104.
² Department of Pharmaceutics, Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104.
- P-67** **Electro-Catalysed Direct C-H Chalcogenation of Indolizine Frameworks**
Asha Gurjar, Satpal Singh Badsara*
Department of Chemistry, University of Rajasthan, JLN Marg, Jaipur, Rajasthan, India, 302004
- P-68** **Superadsorbents: Wonderful Materials for Water Remediation**
Ayushi Kumari^a, Nivisha Singh^a, Vasundhara Chauhan^a, Yogesh Chandra Sharma^{a*}
^aDepartment of Chemistry, Indian Institute of Technology (BHU), Varanasi, Varanasi 221005.
- P-69** **Unlocking the Potential of Biogenic Carbon Dots (CDs) as nano-carriers for enhanced drug delivery against breast cancer cells**
Poulami Dutta¹, Dhruvi Patel¹, Suman Seervi¹, Abhishek Chandra², Shuvomoy Banerjee¹, Juni Banerjee^{*.1}
¹School of Biotechnology & Bioengineering, Institute of Advanced Research, Gandhinagar-382426, Gujarat, India
²School of Humanities and Sciences, Institute of Advanced Research, Gandhinagar-382426, Gujarat, India
- P-70** **Synthesis and Evaluation of Axially Modified Mn(I)-Tricarbonyl Complexes for Sonodynamic Cancer Therapy**
Shivam Pathak,^a Ashish Kumar Yadav,^a Biplob Koch,^b Samya Banerjee^{*a}
^aDepartment of Chemistry, Indian Institute of Technology (BHU), Varanasi-221005, India
^bDepartment of Chemistry, BHU, Varanasi-221005, India
- P-71** **Visible light photocatalytic ammonia production on single Cu entities attached to nitrogen-deficient functionalized BN sheets**
Gulnaz Perveen, Indrajit Sinha*
Department of Chemistry, Indian Institute of Technology (Banaras Hindu University), Varanasi 221005, India

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- P-72** **Glass Formation Modulates the Charge Transfer Properties in CoFe-Prussian Blue Analog**
Vijay Patel and Arindam Indra*
Department of Chemistry, IIT (BHU), Varanasi, UP-221005
- P-73** **Cyanide vs. Isocyanide Coordination of Fe in Cyanide-Bridged Polymers Modulates Structural Evolution to Active Water Oxidation Catalysts**
Toufik Ansari and Arindam Indra*
Department of Chemistry, IIT (BHU), Varanasi, UP-221005
- P-74** **Streptococcal Surfaceome-Host Interactions Drive Adhesion, Invasion, and Divergent Inflammatory-Apoptotic Signaling in Oral Cancer Cells**
Srikrishna Kedlaya Herga^{1#}, Budheswar Dehury², Adarsh Kudva³, Bharath Prasad A S^{1*}
¹ *Department of Public Health Genomics, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104.*
² *Department of Bioinformatics, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104.*
³ *Department of Oral and Maxillofacial Surgery, Manipal College of Dental Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104.*
- P-75** **Essential Oil-Loaded Core-Shell Nanofibermats with Antimicrobial Characteristic for Wound-healing Patches Application**
Km Preetee Sharma^a, Bhuvaneshwari Balasubramaniam^{b*}, Dhanabal Kumarasamy^c
^a*Department of Chemistry, Indian Institute of Technology (BHU) Varanasi, Uttar Pradesh - 221005, India*
^b*Department of Chemistry, Indian Institute of Technology (BHU) Varanasi, Uttar Pradesh – 221005, India*
^c*Phytomark, Indian Institute of Technology Kanpur (IIT Kanpur), Uttar Pradesh-208016, India*
* Correspondence Author Email ID: (bhuvana.chy@iitbhu.ac.in)
- P-76** **Saccharomyces cerevisiae derived extracellular vesicles as nanocarriers for aminoglycoside delivery**
Sunidhi Hebbar[#] and Murali, T.S.*
Department of Public Health Genomics, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal-576104.
- P-77** **Electric field driven protein translocation through single walled carbon nanotube embedded in lipid bilayer membrane**
Saurabh Chaubey, ¹Km Mamata Patel, ¹Yogita Rani, ¹Simaran Nasa,² Manoj Verma,² and Prabhat Tripathi ^{1*}
¹*Department of Chemistry, Indian Institute of Technology (Banaras Hindu University), Varanasi, UP, India*
²*Center for Nano Science and Engineering, Indian Institute of Science, Bangalore, Karnataka, India.*

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- P-78** **Nanoclay-based nanofungicides for controlled release and enhanced activity: A sustainable approach to pest management**
Deepika Suneja^a, Akash Deep^{b,*}, Jyotsana Mehta^{a,*}
^a Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala-147001, Punjab, India
^b Energy and Environment Unit, Institute of Nanoscience and Technology (INST), Mohali-140306, Punjab, India
- P-79** **Eco-friendly development of ZnO-based biopolymer (chitosan)-carbon nanocomposites for enhanced photocatalytic and antibacterial activity as a tri-nanocomposite**
Rajat Singh^a, Yogendra Pal Singh^a, Ashutosh Sahoo^b, Dhanesh Tiwary^{a,*}
^a Department of Chemistry, Indian Institute of Technology (Banaras Hindu University), Varanasi, 221005, India
^b School of Biosciences and Bioengineering, Indian Institute of Technology, Kamand, Mandi, Himachal Pradesh, 175005, India
- P-80** **Os(II) Complexes for Red Light-Activated Cancer Therapy**
Apurba Mandal¹, Souvik Saha¹, Samya Banerjee^{1,*}
¹Department of Chemistry, IIT (BHU) Varanasi, Varanasi, UP-221005
- P-81** **Reengineering a Microbial Pigment into a Stable Nanoemulgel for Targeted Hyperpigmentation Therapy**
Swarna B S¹, Anika B¹, Usha Yogendra Nayak², Vijendra Prabhu³, Raghavendra Rao⁴, Bharath Prasad A S^{1*}
¹Department of Public Health Genomics, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104
²Department of Pharmaceutics, Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104
³Department of Biotechnology, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104
⁴Department of Dermatology, Venereology and Leprosy, Kasturba Medical College, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104
- P-82** **Designing a sustainable & green heterogeneous catalyst for the valorisation of glycerol into glycerol carbonate**
Shirin Perveen^a, Yogesh Chandra Sharma^{a*}
^a Department of Chemistry, IIT BHU, Varanasi-221005
- P-83** **Regulation of the Second Coordination Shell of Ruthenium Single Atoms for Improved Acidic Hydrogen Evolution Reaction**
Harshit Gupta¹ and Arindam Indra^{*}
Department of Chemistry, Indian Institute of Technology (BHU), Varanasi, UP-221005, India
- P-84** **Photo-responsive Os(II) antibiotics for antibacterial therapy**
Apurba Mandal¹, Rohit Pandey¹, Sudip Mukherjee², Samya Banerjee^{1*}
¹Department of Chemistry, IIT (BHU), Varanasi, India
²School of Biomedical Engineering, IIT (BHU), Varanasi, India

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- P-85** **A naturally occurring 3D hydrophobic honeycomb structure for polarity-dependent microplastic trapping and plasmon-based sensing**
Saumya, Soumik Siddhanta*
Department of Chemistry, Indian Institute of Technology Delhi, Hauz khas , New Delhi, 110016
- P-86** **Stimuli-Responsive Transition Metal Complexes: A Multimodal Platform for Anticancer and Antibacterial Applications**
Sayan Mondal,¹ Bhaskar Bhusan Das,¹ Samya Banerjee*¹
¹*Department of Chemistry, Indian Institute of Technology (BHU), Varanasi, UP-221005, India*
- P-87** **Electrochemical activation and functionalization of C-H bonds using transition metal-based catalysts**
Vijay Sah¹, Toufik Ansari² and Arindam Indra*
Department of Chemistry, Indian Institute of Technology (BHU), Varanasi, UP-221005, India
- P-88** **Bacterial Serine Proteases as Modulators of Coagulation and Endothelial Function: An *In silico* and Cellular Approach**
Shamitha S Rao¹, Chandana R Nayak¹, Kedlaya Srikrishna H Damodar¹, Suchitra Shenoy M², Manjunath B Joshi¹, Raghavendra Upadhyaya³, Budheshwar Dehury¹, Bharath Prasad A S^{1*}
¹*Department of Public Health Genomics, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India –576104*
²*Department of Microbiology, Kasturba Medical college, Manipal Academy of Higher Education, Mangalore, Karnataka, India – 575001*
³*Department of Biotherapeutics Research, Manipal Center for Biotherapeutics Research, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104**
- P-89** **Molecular Insights into *Pseudomonas aeruginosa* Protease-Mediated Disruption of Wound Healing: An Integrative *In silico* And *In vitro* Study**
Chandana R Nayak¹, Shamitha S Rao¹, Budheshwar Dehury², P Sandeep Mallya², Kshitish K Acharya³, Bharath Prasad A S^{1*}
¹*Department of Public Health Genomics, Manipal School of Life Sciences, Manipal Academy of Higher Education (MAHE), Manipal, India*
²*Department of Bioinformatics, Manipal School of Life Sciences, Manipal Academy of Higher Education (MAHE), Manipal, India.*
³*Transcriptomics and Reproductive Biology, Institute of Bioinformatics and Applied Biotechnology, Bangalore, India.*
- P-90** **Development of Red light-activated Ru(II)-based Complexes for Antibacterial Application**
Ishita Ghosh,^[1] Arif Ali Mandal,^[1] Samya Banerjee*^[1]
¹*Department of Chemistry, Indian Institute of Technology (BHU), Varanasi-221005, India*
- P-91** **Visible Light-Driven Antibacterial Activity of Fe(III) Complexes via Singlet Oxygen-Mediated Membrane Disruption**
Ishwar Singh,^[1] Prodyut Dhar,^[2] Samya Banerjee*^[1]
¹*Department of Chemistry, Indian Institute of Technology (BHU), Varanasi-221005, India*
²*School of Biochemical Engineering, IIT(BHU), Varanasi, Uttar Pradesh 221005, India*

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- P-92** **Vanadium-Doped CuFe₂O₄ as an Efficient Photocatalyst for Enhanced p-Nitrophenol Degradation via Photo-Fenton Process**
Khushi Gangwar, Indrajit Sinha^{1*}
Department of Chemistry, Indian Institute of Technology (Banaras Hindu University), Varanasi 221005, India.
- P-93** **One-Pot Synthesis of Sulfonyl hydrazones from Styrene via In Situ Benzaldehyde Formation**
Kritika Taneja, Pooja Kumari, Sundaram Singh*
Department of Chemistry, Indian Institute of Technology (BHU), Varanasi, Uttar Pradesh – 221005, India
- P-94** **Review on Electro-organic Synthesis**
Samridhi Verma
- P-95** **Topochemical Copper Nitroprusside Cathode Enables High Capacity and Cyclability Aqueous Proton Batteries**
Nandan Barnwal, Dhanapal Pravathana*
^aDepartment of Chemistry, Indian Institute of Technology Indore, Khandwa Road, Simrol, Indore-453552, India
- P-96** **Iodine-mediated pyrazolo-pyrimidine based nucleobase mimetics synthesis and structural studies**
Parmeshwar Kumar, Ashoke Sharon*
Department of Chemistry, Birla Institute of Technology, Mesra Ranchi (India) -835215.
- P-97** **Progress in Electrochemical Biosensing using Graphitic Carbon Nitride, its Functionalized Derivatives and Composite Materials**
Piyush Thaper and Jaspreet Kaur Rajput*
Department of Chemistry, Dr BR Ambedkar National Institute of Technology, Jalandhar, Punjab-144008, India
- P-98** **Development of Low-GWP Ternary Refrigerant Blend (R32/R152a/R125) with Nano-Enhancement: Performance, and Sustainable Cooling Advancement**
Pragya Pandey¹, Simanta Pathak¹, Yogesh Chandra Sharma^{1*}
¹Department of Chemistry, Indian Institute of Technology BHU Varanasi- 221005, India
- P-99** **Ultrasound-assisted ring opening of epoxides in HFIP: THF: Synthesis, characterization, computational studies and molecular docking of novel 2-hydroxy dithiocarbamates**
Rohit ^a, Vishal Prasad Sharma ^a, Ashish Kumar Tewari ^{a*}
^aDepartment of Chemistry (Centre of Advanced Study), Institute of Science, Banaras Hindu University, Varanasi-221005,

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- P-100** **Neutral pH Fenton and Photo-Fenton Activity of Starch stabilized W-doped FeS₂ particles**
Maheswari Yadav^a, Dr. Indrajit Sinha^{a*}
^aDepartment of Chemistry, Indian Institute of Technology-Varanasi, Varanasi-221005, INDIA
- P-101** **Out-of-Equilibrium Bioinspired Hydrogels Enabling Fuel- and Light-Responsive Transient Conductive Properties**
Ruchi Shukla, Pandeewar Makam*
Department of Chemistry, IIT BHU (Varanasi)
- P-102** **Organotin(IV) Azo Hydrazonates as Lysosome-Targeted Anticancer Agents**
Sanchita Das¹, Rupam Dinda*
Department of Chemistry, NIT Rourkela, Rourkela, India
- P-103** **Development of BiOBr/g-C₃N₄ S-scheme heterojunctions with Co-Ni₂P cocatalyst for enhanced photocatalytic dye degradation**
Amar Nath Kumar, Dhanesh Tiwari*
Department of Chemistry, Indian Institute of Technology (BHU), Varanasi, UP, 221005, India.
- P-104** **Multifunctional Electrospun Polymeric Fiber Mats Embedded with Conductive Polymer and 2D materials for Antimicrobial Performance**
Pradeep Kumar Singh^{1#}, Hariom Kumar^{2#}, Rashmi Kumari^{3#}, Bhuvaneshwari B.^{4*}
^{1#}Research Scholar, Department of Chemistry, IIT (BHU) Varanasi, Uttar Pradesh - 221005, India
^{2, 3#}Post Graduate Student, Department of Chemistry, IIT (BHU) Varanasi, Uttar Pradesh - 221005, India
^{4*}Assistant Professor, Department of Chemistry, IIT (BHU) Varanasi, Uttar Pradesh - 221005, India
- P-105** **Evaluating P- doped transition metal selenide based electrocatalyst for oxygen evolution reaction**
Pinki Tiwari and Manisha Malviya
¹Department of Chemistry, Indian Institute of Technology (Banaras Hindu University), Varanasi, 221005, India
- P-106** **Role of cation deficiency in Cr-doped NiO for developing superior for photocatalytic dye degradation.**
Subash Chandra Gupta, Dhanesh Tiwari*
Department of Chemistry, Indian Institute of Technology (Banaras Hindu University) Varanasi, Uttar Pradesh, 221005, India
- P-107** **Electronically Tuned Dipyrromethene and BODIPY Platforms for Selective Fluoride and Cyanide Detection**
Harshita Saroj^{1,2} Nitika Grover^{2*}, and P. Arora^{1*}
¹Sensing Devices (SMSD) Laboratory,
¹Department of Electrical and Electronics Engineering, BITS Pilani, Pilani Campus
²Department of Chemistry, BITS Pilani, Pilani Campus
Birla Institute of Technology and Science, Pilani, Rajasthan-333031, India

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- P-108** **Evaluating transition metal selenide based electrocatalyst for oxygen evolution reaction**
Vivek Chaubey, and Manisha Malviya
¹Department of Chemistry, Indian Institute of Technology (Banaras Hindu University), Varanasi, 221005, India
- P-109** **Charge-polarization-induced Photocatalytic Urea synthesis via Co-reduction of CO₂ and NO₃⁻**
Ambarish Pratap Singh and Arindam Indra*
Department of Chemistry, IIT (BHU), Varanasi, UP-221005, India
- P-110** **SYNTHESIS AND CHARACTERIZATION OF BARIUM, CERIUM AND MISCH METAL BASED HETEROPOLY ACID CATALYSTS**
Shreya Cintury¹, Souvik Kumar Patra¹, Nayan Gurung², and R.S.Achyuthlal Babu¹
¹Department of Chemistry, National Institute of Technology, Ravangla, Sikkim, India.
²Department of Chemistry, Sikkim University, Tadong, Gangtok, Sikkim, India.
- P-111** **Sol- gel synthesised CeO₂-TiO₂ Nanocomposite-grafted g-CN: an efficient photocatalyst for degradation of methylene blue under Visible-light.**
Raju Pandey, Yogendra Pal Singh, Dhanesh Tiwary*
Department of chemistry, Indian Institute of Technology (Banaras Hindu University) Varanasi, Uttar Pradesh, 221005, India
- P-112** **SMARTPHONE-BASED RGB COLORIMETRIC SENSING OF SITAGLIPTIN EMPLOYING MBTH AS A CHROMOGENIC REAGENT**
Yogita G. Nandaniya*, Dr. Mrunal A. Ambasana
Department of Chemistry and Forensic Science, Bhakta Kavi Narsinh Mehta University, Junagadh, Gujarat, INDIA
- P-113** **Thermally Shrunk RuNi(O)_x (P)_y Electrocatalyst Enabling Ampere-Level Current Density for Efficient Alkaline Seawater Splitting**
Deepak Kumar Ray¹ and Arindam Indra*
Department of Chemistry, Indian Institute of Technology (BHU), Varanasi, UP-221005, India
- P-114** **The Role of the Hypoxic Pathway in the Bidirectional Correlation Between Myocardial Infarction and Affective Disorders**
Jatin Gupta, Vibha Rani*
Department of Biotechnology, Jaypee Institute of Information Technology, A 10, Sector 62, Noida, Uttar Pradesh 201309
- P-115** **Efficient Microwave-Assisted Synthesis and Biological Evaluation of Novel 1,4-Dihydropyrimido[1,2-a]benzimidazole Derivatives**
M. G. Borisagar
Department of Chemistry, H. & H. B. Kotak Institute of Science, Rajkot, Gujarat, India

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- P-116** **Transition Metal Based Multimetal Electrocatalysts for Hydrogen Evolution Reaction**
PRATIBHA ANANT
- P-117** **Chiral Supramolecular Charge-Transfer Organogels with Emergent Ferroelectricity for Soft Electronics**
Anshu Mala & Pandeewar Makam*
Department of Chemistry, Indian Institute of Technology (BHU), Varanasi, U.P.-221005, India
- P-118** **Traditionally used Plants by Sahariya Tribe in Jhansi district, Uttar Pradesh**
Aditya Mishra, *Gaurav Nigam, **Sanjeev Kumar Maurya, Gaurav and Janhavi Singh
**Department of Botany, Institute of Basic Science, Bundelkhand University, Jhansi*
***Department of Botany, Constituent Government College, Purnapur, Pilibhit*
- P-119** **Development and Evaluation of Trimetazidine and Platelet-Rich Plasma-Based Gel Formulations for Enhanced Diabetic Wound Healing**
Labdhi Bavishi, Aakash Kumar S., Dr. Snehal Patel*
Department of Pharmacology, Institute of Pharmacy, Nirma University
- P-120** **Sustainability of Biological Effects in the Pharmaceutical Industry: A Comparative Analysis with India's Market Growth Trends**
John Anbumani Ganesan^{1#}, Dr. Tanima Debnath Sarkar²
^{1#}PhD(Research Scholar in Biochemistry), Department of Biochemistry and Biotechnology, Annamalai University, Annamalainagar, Chidambaram-608002.
² PhD in Zoology., Department of Zoology, Annamalai University, Annamalainagar, Chidambaram-608002.
- P-121** **SYNTHESIS AND CHARACTERIZATION OF NOVEL BARBITURIC ACID PIPERIDINIUM SALT DERIVATIVES VIA FOUR COMPONENT REACTION**
Vaishali D. Nandaniya*, Prof. Naval P. Kapuriya
Department of Chemistry and Forensic Science, Bhakta Kavi Narsinh Mehta University, Junagadh, Gujarat, INDIA
- P-122** **Do the precursors used in gCN synthesis influence its ability to catalyze electrochemical water splitting?**
Saurav Kumar^a, Vishakha Rani^a and Rosy*
Lab of Interfacial Electrochemistry for Sensing and Storage (Int.ElectS)
^aDepartment of Chemistry IIT (BHU) Varanasi
- P-123** **A COMPREHENSIVE REVIEW ON EMERGING TRENDS IN SPRINKLE PELLETS FOR PAEDIATRIC-FRIENDLY ANTIBIOTIC DELIVERY TO ENHANCE MEDICATION ADHERENCE**
Namami Dutt, Lalji Baldaniya
Faculty of Pharmacy, Marwadi University, Rajkot, Gujarat, 360003, India.
- P-124** **Effective electro-catalyst for oxygen evolution reaction**
Deepshikha

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- P-125** **Electrocatalyst based on Transition metal for Oxygen Reduction Reaction**
Kumari Sadhana
- P-126** **Novel Tacrine Analogs for Lung Cancer: *In Vivo* Efficacy and Toxicity Evaluation**
Rajdeep Dey¹, Hardik Bhatt^{1*}
¹*Department of Pharmaceutical Chemistry, Institute of Pharmacy, Nirma University, Ahmedabad*
- P-127** **Chemoselective Intramolecular Rauhut-Currier reaction on a acyclic labile framework**
Rakesh Kumar Verma,^a and Kishor Chandra Bharadwaj^{a,*}
Department of Chemistry, Institute of Science, Banaras Hindu University
- P-128** **Electrochemical access to the synthesis of Benzimidazo-quinazolinones fused Heterocycles and their biological evaluation**
Ashok Jangra and Vikas Tyagi*
Department of Chemistry and Biochemistry, Department of Chemistry, Panjab University, Chandigarh 160014, Thapar Institute of Engineering and Technology, Patiala-147004, Punjab, India