

# 32<sup>nd</sup> 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  $\beta$ -FeOOH nanoparticles Catalyzed Transfer Hydrogenation of Nitroarenes using Hydrazine Hydrate**  
Odao Ng'enyi Kichere<sup>a,b</sup>, Geeta Davi Yadav<sup>c</sup>, Surendra Singh<sup>a\*</sup>  
<sup>a</sup>Department of Chemistry, University of Delhi-110007, New Delhi India.  
<sup>b</sup>Ministry of Education, Science and Technology, Kasulu Teachers College, P.O.Box 3 Kasulu Tanzania.  
<sup>c</sup>Department 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 (CO<sub>3</sub><sup>2-</sup>) and Hydrogen Sulphide (H<sub>2</sub>S)**  
Ankita Pandey, Satyen Saha<sup>\*</sup>  
Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi 221005
- P-3**      **Fastest Catalytic Dearomatization of Arenols Employing an Unusual Arene- $\pi$ -Tribromide Anion Complex**  
Mr. Priyaranjan Sahoo\*, Majid Ahmad Ganie<sup>b</sup>, Dhrutiman Rout<sup>a</sup>, Dr. Debayan Sarkar<sup>\*</sup>  
Indian Institute of Technology Indore
- P-4**      **Sustainable Green Synthesis of TiO<sub>2</sub> NPs from *Prunus salicina* 'Santa Rosa' and Their Application in Dye-Sensitized Solar Cells**  
Bhawana Tripathi, Suman Kushwaha<sup>\*</sup>  
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**  
Isha<sup>1</sup>, Amjad Ali<sup>1\*</sup>  
<sup>1</sup>Department 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<sup>a</sup>, Vishal Prasad Sharma<sup>a</sup>, Amit Patel<sup>a</sup>, Ashish Kumar Tewari<sup>\*</sup>  
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<sup>\*</sup>  
Department of Chemistry, Institute of Science, Banaras Hindu University
- P-8**      **Stitching  $\beta$ -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,<sup>a</sup> and Maya Shankar Singh<sup>a,\*</sup>  
<sup>a</sup>Department 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. Rajak<sup>1</sup>; P. Chouhan<sup>2</sup>; and N. Garg<sup>1\*</sup>  
<sup>1</sup>Department of Medicinal Chemistry, Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Varanasi-221005  
<sup>2</sup>Department of Prasuti Tantra, Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Varanasi-221005
- P-10**                    **Metal-Free  $\alpha$ -Sulfonylation of  $\beta$ -Ketothioamides: Access to  $\alpha$ -Sulfonyl- $\beta$ -Ketoamides**  
Vipin Kumar<sup>a</sup> and Maya Shankar Singh<sup>a\*</sup>  
<sup>a</sup>Department 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  $\beta$ -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  $\pi\cdots\pi$  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/BiVO<sub>4</sub> Z-Scheme Photocatalysts for Sunlight-Driven Degradation of Azo Dye: Performance and Mechanistic Insights**  
Manpreet Kaur<sup>a</sup>, Pritam Hait<sup>a</sup>, Soumen Basu<sup>a\*</sup>  
<sup>a</sup>Department 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](mailto:sarkard@iiti.ac.in)*
- P-19**      **Visible-light-Initiated decarboxylative acylation of unsaturated hydrocarbons with Keto acid via Csp<sup>2</sup> –Csp<sup>2</sup> 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 MoS<sub>2</sub>@g-C<sub>3</sub>N<sub>4</sub> nanocomposites for electrochemical detection of chlorpyrifos pesticides**  
Himshikha Malviya<sup>a</sup> Anshu Kumar Singh<sup>a</sup> and Jay Singh<sup>a\*</sup>  
*<sup>a</sup>Department 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<sup>a</sup>, Sundaram Singh<sup>a\*</sup>  
*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(sp<sup>3</sup>)-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 Csp<sup>2</sup>-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\*  
*<sup>a</sup>Department 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 Bi<sub>2</sub>S<sub>3</sub> as an efficient Photocatalyst for enhanced photo-Fenton degradation of Ciprofloxacin**  
Keshnath Yadav, Indrajit Sinha<sup>1\*</sup>  
*Department of Chemistry, Indian Institute of Technology (Banaras Hindu University), Varanasi 221005, India.*
- P-38 “Citric acid-functionalized Mo-doped CoFe<sub>2</sub>O<sub>4</sub> 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 <sup>#</sup> and Pradeep Kumar Gupta<sup>1</sup>  
*<sup>1</sup>Synthetic 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,<sup>a</sup> Vipin Kumar,<sup>a</sup> and Maya Shankar Singh<sup>a,\*</sup>  
*Department of Chemistry, Institute of Science, Banaras Hindu University*
- P-46**      **Strengthening Early Dengue Diagnosis Through Molecular Biomarker Development and Clinical Validation**  
Dimple Kothari<sup>1</sup>, 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<sup>1a</sup>, Jahar Sarkar<sup>2</sup>, Sandip Kumar Saha<sup>1b</sup>  
<sup>1a</sup>Post Doctorate Fellow, Department of Mechanical Engineering, Indian Institute of Technology Bombay, Mumbai, Maharashtra-400076, India.  
<sup>1b</sup>Professor, Department of Mechanical Engineering, Indian Institute of Technology Bombay, Mumbai, Maharashtra-400076, India.  
<sup>2</sup>Professor, 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 Tiwari<sup>1</sup>, Rajesh Kumar Upadhyay, Yogesh Chandra Sharma<sup>1</sup>\*  
*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 FeSb<sub>2</sub>O<sub>4</sub> Microrods via Controlled Ammonia Dehydrogenation**  
Deepak Kumar Sahu<sup>†</sup>, Hirak Kumar Basak<sup>†</sup> and Biswarup Chakraborty\*<sup>†</sup>  
*<sup>†</sup>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 BODIPYs and pH-Induced Configurational Molecular Switching in Hydrazones**  
Durgendra Yadav<sup>a</sup>, Vishwa Deepak Singh<sup>b</sup>, Anjani Kumar<sup>a</sup>, Surendra Kumar<sup>a</sup>, Roop Shikha Singh<sup>a\*</sup>  
*<sup>a</sup>Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi- 221 005 (U. P.) India  
<sup>b</sup>Department 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,<sup>[1]</sup> Srijan Singh,<sup>[1]</sup> Prodyut Dhar,\*<sup>[2]</sup> Samya Banerjee\*<sup>[1]</sup>  
<sup>[1]</sup>*Department of Chemistry, Indian Institute of Technology (BHU), Varanasi-221005, India.*  
<sup>[2]</sup>*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- $\gamma$  modulator for the treatment of Type 2 Diabetes Mellitus using *in-silico* approach**  
Srashti Verma<sup>1</sup>, Tejas Dhameliya<sup>2</sup>, Palak Parikh<sup>3</sup>, Snehal Patel<sup>1</sup>\*  
<sup>1</sup>*Department of Pharmacology, Institute of Pharmacy, Nirma University, Ahmedabad, Gujarat 382481, India*  
<sup>2</sup>*Department of Pharmaceutical Chemistry, Institute of Pharmacy, Nirma University, Ahmedabad, Gujarat 382481, India*  
<sup>3</sup>*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 Singh<sup>1</sup>, Ajay Kumar Bind<sup>1</sup> and V. Ramanathan<sup>1</sup>\*  
<sup>1</sup>*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 2210005*

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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,<sup>\*a,b</sup> Shyamal Kumar Chattopadhyay<sup>\*.b</sup>  
<sup>a</sup>Department of Chemistry, St. Xavier's College, Ranchi-834001, India, [sumitanaskarhazra@gmail.com](mailto:sumitanaskarhazra@gmail.com) (S. Hazra)<sup>a</sup>  
<sup>b</sup>Department 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<sup>1#</sup>, Swarna B S<sup>1</sup>, Usha Y Nayak<sup>2</sup>, Bharath Prasad A S<sup>1\*</sup>  
<sup>1</sup> Department of Public Health Genomics, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104.  
<sup>2</sup> 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<sup>a</sup>, Nivisha Singh<sup>a</sup>, Vasundhara Chauhan<sup>a</sup>, Yogesh Chandra Sharma<sup>a\*</sup>  
<sup>a</sup>Department 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 Dutta<sup>1</sup>, Dhruvi Patel<sup>1</sup>, Suman Seervi<sup>1</sup>, Abhishek Chandra<sup>2</sup>, Shuvomoy Banerjee<sup>1</sup>, Juni Banerjee<sup>\*.1</sup>  
<sup>1</sup>School of Biotechnology & Bioengineering, Institute of Advanced Research, Gandhinagar-382426, Gujarat, India  
<sup>2</sup>School 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,<sup>a</sup> Ashish Kumar Yadav,<sup>a</sup> Biplob Koch,<sup>b</sup> Samya Banerjee<sup>\*a</sup>  
<sup>a</sup>Department of Chemistry, Indian Institute of Technology (BHU), Varanasi-221005, India  
<sup>b</sup>Department 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<sup>1#</sup>, Budheswar Dehury<sup>2</sup>, Adarsh Kudva<sup>3</sup>, Bharath Prasad A S<sup>1\*</sup>  
<sup>1</sup> *Department of Public Health Genomics, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104.*  
<sup>2</sup> *Department of Bioinformatics, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104.*  
<sup>3</sup> *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<sup>a</sup>, Bhuvaneshwari Balasubramaniam<sup>b\*</sup>, Dhanabal Kumarasamy<sup>c</sup>  
<sup>a</sup>*Department of Chemistry, Indian Institute of Technology (BHU) Varanasi, Uttar Pradesh - 221005, India*  
<sup>b</sup>*Department of Chemistry, Indian Institute of Technology (BHU) Varanasi, Uttar Pradesh – 221005, India*  
<sup>c</sup>*Phytomark, Indian Institute of Technology Kanpur (IIT Kanpur), Uttar Pradesh-208016, India*  
\* Correspondence Author Email ID: ([bhuvana.chy@iitbhu.ac.in](mailto:bhuvana.chy@iitbhu.ac.in))
- P-76**      **Saccharomyces cerevisiae derived extracellular vesicles as nanocarriers for aminoglycoside delivery**  
Sunidhi Hebbar<sup>#</sup> 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, <sup>1</sup>Km Mamata Patel, <sup>1</sup>Yogita Rani, <sup>1</sup>Simaran Nasa,<sup>2</sup> Manoj Verma,<sup>2</sup> and Prabhat Tripathi <sup>1\*</sup>  
<sup>1</sup>*Department of Chemistry, Indian Institute of Technology (Banaras Hindu University), Varanasi, UP, India*  
<sup>2</sup>*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<sup>a</sup>, Akash Deep<sup>b,\*</sup>, Jyotsana Mehta<sup>a,\*</sup>  
<sup>a</sup> Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala-147001, Punjab, India  
<sup>b</sup> 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<sup>a</sup>, Yogendra Pal Singh<sup>a</sup>, Ashutosh Sahoo<sup>b</sup>, Dhanesh Tiwary<sup>a,\*</sup>  
<sup>a</sup> Department of Chemistry, Indian Institute of Technology (Banaras Hindu University), Varanasi, 221005, India  
<sup>b</sup> 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 Mandal<sup>1</sup>, Souvik Saha<sup>1</sup>, Samya Banerjee<sup>1,\*</sup>  
<sup>1</sup>Department of Chemistry, IIT (BHU) Varanasi, Varanasi, UP-221005
- P-81**      **Reengineering a Microbial Pigment into a Stable Nanoemulgel for Targeted Hyperpigmentation Therapy**  
Swarna B S<sup>1</sup>, Anika B<sup>1</sup>, Usha Yogendra Nayak<sup>2</sup>, Vijendra Prabhu<sup>3</sup>, Raghavendra Rao<sup>4</sup>, Bharath Prasad A S<sup>1\*</sup>  
<sup>1</sup>Department of Public Health Genomics, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104  
<sup>2</sup>Department of Pharmaceutics, Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104  
<sup>3</sup>Department of Biotechnology, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, Karnataka, India – 576104  
<sup>4</sup>Department 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<sup>a</sup>, Yogesh Chandra Sharma<sup>a\*</sup>  
<sup>a</sup> 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 Gupta<sup>1</sup> and Arindam Indra<sup>\*</sup>  
Department of Chemistry, Indian Institute of Technology (BHU), Varanasi, UP-221005, India
- P-84**      **Photo-responsive Os(II) antibiotics for antibacterial therapy**  
Apurba Mandal<sup>1</sup>, Rohit Pandey<sup>1</sup>, Sudip Mukherjee<sup>2</sup>, Samya Banerjee<sup>1\*</sup>  
<sup>1</sup>Department of Chemistry, IIT (BHU), Varanasi, India  
<sup>2</sup>School 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,<sup>1</sup> Bhaskar Bhusan Das,<sup>1</sup> Samya Banerjee\*<sup>1</sup>  
<sup>1</sup>*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 Sah<sup>1</sup>, Toufik Ansari<sup>2</sup> 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 Rao<sup>1</sup>, Chandana R Nayak<sup>1</sup>, Kedlaya Srikrishna H Damodar<sup>1</sup>, Suchitra Shenoy M<sup>2</sup>, Manjunath B Joshi<sup>1</sup>, Raghavendra Upadhyaya<sup>3</sup>, Budheshwar Dehury<sup>1</sup>, Bharath Prasad A S<sup>1\*</sup>  
<sup>1</sup>*Department of Public Health Genomics, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India –576104*  
<sup>2</sup>*Department of Microbiology, Kasturba Medical college, Manipal Academy of Higher Education, Mangalore, Karnataka, India – 575001*  
<sup>3</sup>*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 Nayak<sup>1</sup>, Shamitha S Rao<sup>1</sup>, Budheshwar Dehury<sup>2</sup>, P Sandeep Mallya<sup>2</sup>, Kshitish K Acharya<sup>3</sup>, Bharath Prasad A S<sup>1\*</sup>  
<sup>1</sup>*Department of Public Health Genomics, Manipal School of Life Sciences, Manipal Academy of Higher Education (MAHE), Manipal, India*  
<sup>2</sup>*Department of Bioinformatics, Manipal School of Life Sciences, Manipal Academy of Higher Education (MAHE), Manipal, India.*  
<sup>3</sup>*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,<sup>[1]</sup> Arif Ali Mandal,<sup>[1]</sup> Samya Banerjee\*<sup>[1]</sup>  
<sup>1</sup>*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,<sup>[1]</sup> Prodyut Dhar,<sup>[2]</sup> Samya Banerjee\*<sup>[1]</sup>  
<sup>1</sup>*Department of Chemistry, Indian Institute of Technology (BHU), Varanasi-221005, India*  
<sup>2</sup>*School of Biochemical Engineering, IIT(BHU), Varanasi, Uttar Pradesh 221005, India*

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- P-92**      **Vanadium-Doped CuFe<sub>2</sub>O<sub>4</sub> as an Efficient Photocatalyst for Enhanced p-Nitrophenol Degradation via Photo-Fenton Process**  
Khushi Gangwar, Indrajit Sinha<sup>1\*</sup>  
*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\*  
<sup>a</sup>Department 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 Pandey<sup>1</sup>, Simanta Pathak<sup>1</sup>, Yogesh Chandra Sharma<sup>1\*</sup>  
<sup>1</sup>Department 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 <sup>a</sup>, Vishal Prasad Sharma <sup>a</sup>, Ashish Kumar Tewari <sup>a\*</sup>  
<sup>a</sup>Department 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 FeS<sub>2</sub> particles**  
Maheswari Yadav<sup>a</sup>, Dr. Indrajit Sinha<sup>a\*</sup>  
<sup>a</sup>Department 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 Das<sup>1</sup>, Rupam Dinda\*  
Department of Chemistry, NIT Rourkela, Rourkela, India
- P-103**      **Development of BiOBr/g-C<sub>3</sub>N<sub>4</sub> S-scheme heterojunctions with Co-Ni<sub>2</sub>P 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<sup>1#</sup>, Hariom Kumar<sup>2#</sup>, Rashmi Kumari<sup>3#</sup>, Bhuvaneshwari B.<sup>4\*</sup>  
<sup>1#</sup>Research Scholar, Department of Chemistry, IIT (BHU) Varanasi, Uttar Pradesh - 221005, India  
<sup>2, 3#</sup>Post Graduate Student, Department of Chemistry, IIT (BHU) Varanasi, Uttar Pradesh - 221005, India  
<sup>4\*</sup>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  
<sup>1</sup>Department 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<sup>1,2</sup>, Nitika Grover<sup>2\*</sup>, and P. Arora<sup>1\*</sup>  
<sup>1</sup>Sensing Devices (SMSD) Laboratory,  
<sup>1</sup>Department of Electrical and Electronics Engineering, BITS Pilani, Pilani Campus  
<sup>2</sup>Department 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  
<sup>1</sup>Department of Chemistry, Indian Institute of Technology (Banaras Hindu University), Varanasi, 221005, India
- P-109**      **Charge-polarization-induced Photocatalytic Urea synthesis via Co-reduction of CO<sub>2</sub> and NO<sub>3</sub><sup>-</sup>**  
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 Cintury<sup>1</sup>, Souvik Kumar Patra<sup>1</sup>, Nayan Gurung<sup>2</sup>, and R.S.Achyuthlal Babu<sup>1</sup>  
<sup>1</sup>Department of Chemistry, National Institute of Technology, Ravangla, Sikkim, India.  
<sup>2</sup>Department of Chemistry, Sikkim University, Tadong, Gangtok, Sikkim, India.
- P-111**      **Sol- gel synthesised CeO<sub>2</sub>-TiO<sub>2</sub> 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)<sub>x</sub> (P)<sub>y</sub> Electrocatalyst Enabling Ampere-Level Current Density for Efficient Alkaline Seawater Splitting**  
Deepak Kumar Ray<sup>1</sup> 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, Puranpur, Pilibhit*

**P-119 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, Puranpur, Pilibhit*

**P-120 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, Puranpur, Pilibhit*

**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<sup>a</sup>, Vishakha Rani<sup>a</sup> and Rosy\*  
*Lab of Interfacial Electrochemistry for Sensing and Storage (Int.ElectS)*  
*<sup>a</sup>Department 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

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