



30th ISCB INTERNATIONAL CONFERENCE (ISCB-2025)

Jointly Organized by:

Indian Society of Chemists & Biologists (ISCB)

Department of Chemistry, University of Lucknow, Lucknow, Uttar Pradesh, India

Date: 27 - 29 January, 2025

Venue: Department of Chemistry, University of Lucknow, Lucknow, Uttar Pradesh, India

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POSTERS

- | Poster Number | Title & Author |
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| P-1 | Indolin-2-one linked 1,2,3-triazoles as EGFR (6P8Q) inhibitor
Sujeet Kumar* ¹ , Subhas S. Karki ² , Arnika Das ² , Carmela Fimognari ³ , Rita Morigi ⁴ , Dominique Schols ⁵
¹ Department of Pharmaceutical Chemistry, Nitte College of Pharmaceutical Sciences (A constituent Unit of Nitte Education Trust), Yelahanka, Bengaluru-560064, Karnataka, India.
² Department of Pharmaceutical Chemistry, K.L.E College of Pharmacy, (A Constituent unit of KAHER-Belagavi), Bengaluru 560010, Karnataka, India.
³ Department for Life Quality Studies, Universit`a di Bologna, Rimini, Italy.
⁴ Department of Pharmacy and Biotechnology, Alma Mater Studiorum-Universit`a di Bologna, Italy.
⁵ Rega Institute for Medical Research, Laboratory of Virology and Chemotherapy, KU Leuven, B-3000 Leuven, Belgium. |
| P-2 | Design and Synthesis of Some New Series of Polysubstituted Fused Pyrimidine Derivatives for their Biological Activity
<u>N. Verma</u> [#] and D. N. Singh*
Department of Chemistry, K. S. Saket PG College, Dr. R.M.L. Avadh University Ayodhya-224001, India. |
| P-3 | Biomimetic Catalysis for Environment Friendly One pot Multicomponent Synthesis of Chromeno[4,3-b]chromene-6,8,13-triones in aqueous micellar CTAB
Manisha R. Bhosle*
Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar- 431004, Maharashtra, India |
| P-4 | Indanone-Benzimidazole hybrids as potential anti-Alzheimer's agents: Design, synthesis, biological evaluation, DFT, molecular docking and molecular dynamics study
Rashi ¹ , Pragati Kushwaha ^{1,*}
¹ Department of Chemistry, University of Lucknow, Lucknow-226007, (U.P.) India, |
| P-5 | In Silico and In Vitro Assessment of Dashmool for SARS-CoV-2 Drug Discovery
Urvisha Beladiya ¹ , Rajesh Patel ^{1,*}
Department of Biosciences, Veer Narmad South Gujarat University, Surat, Gujarat. |
| P-6 | In Silico Evaluation of Morinda Anthraquinones as BACE1 Inhibitors: Potential Therapeutic Applications for Alzheimer's Disease Treatment
<u>Pratima P. Pandey</u> ¹ and Maushmi S. Kumar ^{1,*}
¹ Somaiya Institute for Research and Consultancy, Somaiya Vidyavihar University, Vidyavihar (East), Mumbai -400077, India. |



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- P-7** **β -Oxodithioester-Based Multicomponent Synthesis of Thiochromenes via Heterogeneous Catalysis**
Himani Gupta, Dr. Anil Kumar*
Synthetic Organic Chemistry Lab., Faculty of Sciences, Shri Mata Vaishno Devi University, Katra, J&K
- P-8** **From Nature to Therapeutics: *In Silico* Molecular Docking of Bisindole Alkaloids as VEGFR2 Inhibitors for Melanoma Treatment**
Aditi P. Agarwal¹, Maushmi S. Kumar*¹
¹*Somaiya Institute for Research and Consultancy, Somaiya Vidyavihar University, Vidyavihar (East), Mumbai - 400077, India.*
- P-9** **"Design and modification of leelamine derivatives for their chemotherapeutic interest"**
Shivali Dodiya¹* **Dr. Mayank Pandya**²
Center for Research and Development, Dr. Subhash University, Junagadh (362001), Gujarat, India.
- P-10** **Modified Eco-friendly and Low Cost Adsorbent for Efficient Removal of Dyes from Wastewater**
Aayushi Patel, Saurabh Rai and Dr. Vimallesh Kumar Singh
Department of chemistry, Dr. Ambedkar Government P.G. College Unchahar Raebareli
- P-11** **Modified Eco-friendly and Low Cost Adsorbent for Efficient Removal of Dyes from Wastewater**
Saurabh Rai, Aayushi Patel and Dr. Vimallesh Kumar Singh
Department of chemistry, Dr. Ambedkar Government P.G. College Unchahar Raebareli
- P-12** **Design, Synthesis, *In silico* and *In vitro* studies on 1,4-Naphthoquinone Tethered Hybrid Molecules as Anticancer Agents**
Satyam Srivastava, Anamika Singh, Harish C. Upadhyay*
Department of Applied Sciences, Rajkiya Engineering College (Affiliated with Dr. A.P.J. Abdul Kalam Technical University, Lucknow), Churk, Sonbhadra-231206, India
- P-13** **Enhanced Neuroprotective Potential of Marine Dietary Polyphenols: *In Vitro* Biotransformation and Evaluation of Acetylcholinesterase Inhibition for Alzheimer's Disease Treatment**
Anushree Gade¹, Maushmi S. Kumar¹*
¹*Somaiya Institute for Research and Consultancy, Somaiya Vidyavihar University, Vidyavihar (East), Mumbai - 400077, India.*



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P-14 Optimization and Pharmacological Evaluation for the Development of a Novel Combinational Oleoresin Capsicum based Riot Control Formulation.

Sanghita Das^{1,2}, Pronobesh Chattopadhyay^{2*}, Achintya Saha^{1*}, Abdul Baquee Ahmed³.

¹Pharmaceutical and fine chemical Technology, University of Calcutta, Kolkata, India.

²Department of pharmaceutical Science, Defence Research Laboratory, DRL-DRDO, Tezpur, Assam, India

³School of pharmaceutical science, Girijananda Chowdhury University, Tezpur, Assam, India.

P-15 “Synthesis, Spectral Studies and Anti-microbial screening of New Pyrazoline Derivatives”

Dishant Pahelajani Jeet Bhatt *Dr. Mayank Pandya¹

Centre for Research and Development, Dr. Subhash University, Junagadh (362001), Gujarat, India.

P-16 Development of 7-chloroquinolinyl hydrazone based thiazolidine-4-one analogues as anti-cancer agents by attenuating TLR4 activation

SK Batin Rahaman¹, Satyajit Halder², Kuladip Jana², Utsab Debnath^{1*}

¹School of Health Sciences and Technology, UPES, Dehradun – 248007, India; ²Department of Molecular Medicine, Bose Institute, Kolkata – 700068, India

P-17 Investigating the Antimicrobial Properties of a Probiotic-Derived Biosurfactant

Shruti S. Gawde¹, Dr. Maushmi S. Kumar^{1*}

¹Somaiya Institute for Research and Consultancy (SIRAC), Somaiya Vidyavihar University, Vidyavihar East, Mumbai - 400077, Maharashtra, India.

P-18 A Paradigm Shift in Platinum Chemotherapy: Unveiling Kinetically Inert Agents

Tushar Ranjan Panda and Malay Patra^{*}

Department of Chemical Sciences, Tata Institute of Fundamental Research, Mumbai

P-19 Optimizing IR detection assay condition in cell culture to save time and money

Onkar Sharma, Anita Dua, Sanjeev Gupta, Ashwani Mittal^{*}

Skeletal Muscle Lab, Institute of Integrated & Honors Studies, Kurukshetra University, Kurukshetra, Haryana - 136119

P-20 Organic framework-based sensors for organophosphorus/phosphate ions used in chemical warfare agents (OP CWAs)

Dr. Ishanki Bhardwaj

Department of Chemistry, Sir PT Sarvajani College of Science, MTB College Campus, Jawaharlal Nehru Marg, Athwalines, Surat-395001, Gujarat.



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- P-21** **Exploring Electronic Effect on ESIPT-Driven pH Sensing: Mechanistic Insights and Amines sensing**
Bharat Kaushik, Annu Agarwal, Ajeet Singh Inamur R. Laskar*
Department of Chemistry, BITS PILANI, Pilani campus, Pilani, Rajasthan, 333031
- P-22** **Application of Computational Chemistry in Drug Discovery**
¹Harsh Rander, ²Prof. (Dr.) Prashant S. Kharkar
¹*School of Biological Sciences, National Institute of Science Education and Research (NISER), Bhubaneswar, Odisha, INDIA*
²*Department of Pharmaceutical Sciences and Technology, Institute of Chemical Technology, Matunga, Mumbai, INDIA*
- P-23** **Design, synthesis, and biological studies of novel indolyl-keto-acrylonitriles as potent anti-cancer agents**
Nandini Roy, Monika Malik, Rajeev Sakhuja, Dalip Kumar*
Department of Chemistry, Birla Institute of Technology and Science, Pilani 333031, India
- P-24** **Organocatalytic [4+2] annulation between enals and nitro-olefins for the direct synthesis of highly substituted 2-nitro-1,1'-biphenyl: Scope and applications**
Imtiyaz Ahmad Shah and Indresh Kumar
Department of Chemistry, Birla Institute of Technology and Science, Pilani 333031, (Rajasthan) India,
- P-25** **A multifunctional approach for Alzheimer's disease therapy: Novel cholinesterase inhibitors as a neuroprotective agent.**
Rakesh Kumar Gautam, Gyan Modi
Department of Pharmaceutical Engineering & Technology, Indian Institute of Technology (BHU), Varanasi, U.P., 221005, India
- P-26** **Palladium-Catalyzed Oxidative Alkenylation of 2-Arylindolizines using Allyl Alcohols**
Vani Dhyani, Dhananjay S. Nipate, Anil Kumar*
Department of Chemistry, Birla Institute of Technology & Science, Pilani, Rajasthan, 333031, India
- P-27** **Kinetic and Physicochemical Studies of the Silver Nanoparticles synthesized by Nicotinamide as a Reducing and Stabilizing Agent**
Indresh Kumar*, ^a
^a*Department of Chemistry, School of Basic Sciences, CSJM University Kanpur, Uttar Pradesh-208024, India*
- P-28** **Microwave-assisted Green Synthesis of Sustainable Zinc Oxide Composites for Effective Sequestration of Crystal Violet**
Aman Savita^{ac}, Hariom Gupta^{ac}, Rajesh Patidar^{bc}
^a*CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow, India*
^b*CSIR-Advanced Materials and Process Research Institute, Bhopal, India*
^c*Academy of Scientific and Innovative Research (AcSIR), Ghaziabad 201002, India*



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- P-29** **N1 neuraminidase inhibitor from nature: A computational approach**
Najima Ahmed* and Ramesh Ch. Deka
*Centre for multidisciplinary Research, Tezpur University, Tezpur-784028, Assam, India
Department of Chemical Sciences, Tezpur University, Tezpur-784028, Assam, India
- P-30** **One-Pot, Three-Component Synthesis and Anti-tubercular Activity of New 3-(1-acetyl-2-isonicotinoyl-5-phenyl-2,3-dihydro-1H-pyrazol-3-yl)-2H-chromen-2-one Derivatives Catalyzed by β -Cyclodextrin for Green Catalysis in Water**
Asha V. Chate*
*Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar-431004, M.S., India.
- P-31** **Biodegradation of Imidacloprid by *Bacillus altitudinis* DG4: A Sustainable Solution**
Charmy Kothari¹, Manoj Godhaniya¹ and Rajesh Patel²
¹Department of Biotechnology, Christ College, Rajkot, Gujarat, India
²Department of Bio Sciences, Veer Narmad South Gujarat University, Surat, Gujarat, India.
- P-32** **Demethylated lignin derived from biorefinery-sourced rice straw spent cake using chemical and microbial methods and its applications**
Kedar Vaidya¹, Sasisanker Padmanabhan^{2*}
Praj Matrix R&D center, Praj Industries, Temghar-Lavasa road, Pirangut, 412115^{1,2}
Department of Technology, Savitribai Phule Pune University, Ganeshkhind, Pune, 411007¹
- P-33** **Renewable phosphine ligands for homogeneous catalysis**
Raju Yalla^a, Ashot Gevorgyan^{*a}
a: Department of Chemistry, UiT The Arctic University of Norway, 9037 Tromsø, Norway.
- P-34** **Paper Sludge waste material For Ethanol Production & their application**
Vishakha Tiwari, "Poonam Shukla"
Veer Kunwar Singh University, Ara, Bhojpur, Bihar
- P-35** **Antipyrene Derivatives and its Biological Activities.**
Law Kumar, ¹ Shabnam Khatoon, ² Sudha Kumari, ³ Poonam Shukla*
Veer Kunwar Singh University, Ara, Bhojpur, Bihar (802301)
- P-36** **Flavones based imidazole motifs and its Biological Potential**
Shabnam Khatoon,¹ Law Kumar,² Poonam Shukla*
Veer Kunwar Singh University, Ara, Bhojpur, Bihar (802101)
- P-37** **Phytochemical Investigation and Biological Activity Profiling of *Solanum nigrum* Extracts.**
Govinda Kumar¹, Dr. Ashish Srivastava², Dr. Poonam Shukla^{1*}
¹PG Department of Chemistry, Veer Kunwar Singh University Ara Bihar India
²PSIT-PRANVEER SINGH INSTITUTE OF TECHNOLOGY, (PHARMACY), KANPUR, UP



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- P-38** **Synthesis and Spectroscopic Characterization of Zinc-Carboxylate Metal-Organic Frameworks**
Poonam Rawat, Armeen Siddique, Anant Ram and R. N. Singh
Department of Chemistry, University of Lucknow, Lucknow 226007, India
- P-39** **Pharmacognostical Evaluation of *Cassia occidentalis* and Comparative Phytochemical Analysis with *Cassia floribunda***
Neha Sahu^{ab}, KR Arya^b
^{ab}Department of Botany, University of Lucknow; ^bCSIR-CDRI, Lucknow
- P-40** **Design, Synthesis, and Computational Analysis of a Novel Progesterone Oxadiazole Derivative with Anticancer Potential**
Prakash, Poonam Rawat, and R. N. Singh*
Department of Chemistry, University of Lucknow, Lucknow – 226007
- P-41** **Comprehensive Exploration of Ampicillin-Schiff Base Complexes: Synthesis, DFT Insights, Molecular Docking, and Biotherapeutic Applications**
Farha Arshi, Swaila Bano, Saniya Firdaus, Saloni Srivastava and Ashok K.Singh*
Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow-226007, India.
- P-42** **Metal-free α -alkynylation of α -Fluoroacetoacetamides employing alkynyliodonium salt**
Awadhesh Kumar^a and Sanjay Kumar Gautam^a
^aDepartment of Chemistry, University of Lucknow, India-226007
- P-43** **Designing of Metal-Organic Frameworks for their Promising Applications**
Priya Mishra, Armeen Siddique, Seema Joshi*
Department of Chemistry, Isabella Thoburn College, Lucknow-226007 India
- P-44** **Study of Some Biologically active Bismuth-Based Mixed-Ligand Complexes**
Satya* Seema Joshi**
Department of Chemistry, Isabella Thoburn College, University of Lucknow, Lucknow (U.P.) 226007, India
- P-45** **Green Synthesis of Coupled Metal Oxide ZnO/SnO₂ Nanocomposite for Wastewater Treatment**
Sujeet Yadav^a and Ramesh Chandra^{a*}
^aDepartment of Chemistry, University of Lucknow, India-206007



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- P-46** **Development of novel TSPO ligands for the treatment of psychiatric disorders**
Nidhi, Khushboo Singh, Vinay Kumar Singh*
Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow-226007, U.P., India
- P-47** **Regioselective synthesis of polycyclic heteroarenes as carcinoma cells growth inhibitor**
Ameer Hasan^a and Sanjay Kumar Gautam^{a*}
^a*Department of Chemistry, University of Lucknow, India-206007*
- P-48** **1,1'-Bis-(diphenylphosphino)ferrocene appended d⁸- and d¹⁰-configuration based thiosquarates: the molecular and electronic configurational insights into their sensitization and co-sensitization properties for dye sensitized solar cells**
Aparna Kushwaha,^a Devyani Srivastava,^a Om Prakash,^a Gabriele Kociok-Köhn^b and Abhinav Kumar^{a*}
^a*Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow 226007, India*
^b*Materials and Chemical Characterisation Facility (MC²), University of Bath, Claverton Down, Bath, BA2 7AY, UK*
- P-49** **C–H Allylation and Tandem Cyclization of Late-Stage Drug Candidate 2-Aryl Quinazolinones with Cyclic Carbonate**
Shumaila Nafees, Neeraj Kumar Mishra*
Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow-226007, U.P., India
- P-50** **Comprehensive Exploration of Ampicillin-Schiff Base Complexes: Synthesis, DFT Insights, Molecular Docking, and Biotherapeutic Applications**
Farha Arshi, Swaila Bano, Saniya Firdaus, Saloni Srivastava and Ashok K.Singh*
Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow-226007, India.
- P-51** **New isomeric phenylmercury(II)-dithiocarbamates: Influence of positional isomeric phenolic group on supramolecular framework**
Shreya Srivastava,^a Aparna Kushwaha,^a Daniel Omoding,^a Gabriele Kociok-Köhn^{b*} Mohd. Muddassir,^c Abhinav Kumar,^{a*}
^a*Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow 226 007, India.*
^b*Physical Structure Characterization, University of Bath, Claverton Down, Bath, BA2 7AY, UK.*
^c*Department of Chemistry, College of Sciences, King Saud University, Riyadh 11451, Saudi Arabia*
- P-52** **Development of a Benzimidazole-Based Compound for Non-Melanoma Skin Cancer Treatment: Computational and Synthetic Approaches**
Arpit Srivastav¹, Vinay Kumar Singh^{2*}
Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow-226007, U.P., India



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P-53 Nanotized Tungsten metal: OER electrocatalysis and Energy Storage applications

Uzma Afreen^a, Ushna Afreen^b and Narendra Kumar Singh^{c*}

*Department of Chemistry, University of Lucknow, Lucknow-226007, India*³. Barreto, F. C., da Silva, M. K. L., & Cesarino, I. *Nanomaterials* 13.9 (2023): 1436.

P-54 Electrochemical insight of hydrothermally synthesized CuCo₂S₄ microstructures

Ushna Afreen^a, Uzma Afreen^b and Narendra Kumar Singh^{c*}

Department of Chemistry, University of Lucknow, Lucknow-226007, India

P-55 Solid Forms Screening of Antineoplastic Drug Hydroxyurea

Ankima Yadav, Sunil K. Rai^{*}

Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow, Uttar Pradesh 226 007, India

P-56 Improving Dissolution, Solubility and Permeability of Diclofenac by Preparing Primary Alkyl Ammonium Salts

Pallavi Shukla, Sunil K. Rai^{*}

Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow, Uttar Pradesh 226 007, India

P-57 Facile Synthesis of ZnO/SnO₂ Nanocomposite and its Application for Wastewater Remediation

Diptee Mitra^a and Ramesh Chandra^{a*}

^aDepartment of Chemistry, University of Lucknow, India-206007

P-58 Investigation of corrosion mitigation by organic inhibitors in an acidic medium

Rizwan^a and Dr Sudheer^a

^aDepartment of Chemistry University of Lucknow, India- (206007)

P-59 Unveiling of Indanone-Benzimidazole Hybrids as Anti-Alzheimer's Agents: Computational and Experimental studies.

Rashi¹, Pragati Kushwaha^{1*}

Department of chemistry, University of Lucknow, Lucknow, 226007, U.P, India.

P-60 Emerging Contaminants: Transformation and Fate in the Environment

Sejal Shukla, Jagriti Suryavanshi, Aseem Trivedi, Seema Mishra^{*}

Department of Chemistry, University of Lucknow, Lucknow, U.P,226007, India

P-61 Interactive Effect of Trace and Toxic Elements on Nutrient Acquisition and Distribution

Jagriti Suryavanshi, Sejal Shukla, Aseem Trivedi, Seema Mishra^{*}

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- P-62** **DFT directed vibrational and electronic investigation, thermodynamic parameters, non-covalent interactions analysis, Molecular Docking as well as anti-inflammatory activity of the novel synthesized steroidal Schiff base Saumya Pandey^a, Sangeeta Srivastava^{a*}**
- P-63** **Synthesis, characterization ZnS and ZnO/ZnS and their OER application Sana Zishan, Prakhar Mishra, N. K. Singh and Bharat Kumar^{*}**
Department of Chemistry, University of Lucknow, Lucknow-226007, India
- P-64** **Efficient synthesis of danazol derivatives via palladium catalyzed Sonogashira cross coupling with evaluation of in vitro anti-oxidant activity and computational analysis.**
Garima Singh^{*} and Sangeeta Srivastava
- P-65** **Comprehensive Exploration of Ampicillin-Schiff Base Complexes: Synthesis, DFT Insights, Molecular Docking, and Biotherapeutic Applications**
Farha Arshi, Swaila Bano, Saniya Firdaus, Saloni Srivastava and Ashok K. Singh^{*}
Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow-226007, India.
- P-66** **Regioselective Synthesis of Phenanthridines via Pd(II)-Catalyzed Annulative C(sp²)-H Activation**
Surabhi Upadhyay^a, A. K. Sriastava,^b Vijai K. Rai^a
^a*Green Synthesis Lab, Department of Chemistry, University Of Lucknow, Lucknow-226007*
^b*Medicinal and Process Chemistry Division, CSIR-Central Drug Research Institute, Lucknow- 226031, India*
- P-67** **“Construction of diversified indole/hetero-fused indole frameworks via Ugi-multicomponent approach: A Review”**
Prashasti Kalhans¹, Aditi Singh¹, Dr. Shashi Pandey^{1*}
Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow, 226007, Uttar Pradesh, India.
- P-68** **Transition Metal Catalyzed Reduction of Nitroarenes**
Abhishek Kumar Verma; Sushil K. Maurya^{*}.
Department of Chemistry, University of Lucknow, Lucknow. Uttar Pradesh. 226007.
- P-69** **V₂O₅ Catalyzed N-alkylation of aromatic amines with alcohols**
Shashi Kumar^{a,b}, Shruti Yadav^c, Dr. Dinesh Kumar^{a,b}, Dr. Sushil K. Maurya^{c*}
^a*CSIR-Institute of Himalayan Bioresource Technology, Palampur 176061 (H.P.)*
^b*AcSIR-Academy of Scientific and Innovative Research, Ghaziabad 201002 (U.P.)*
^c*Department of Chemistry, University of Lucknow 226007 (U.P.)*
- P-70** **Synthesis of Novel Ciprofloxacin-Lipophilic Conjugates**
Rahul Kumar^{a,b}, Deepti Pal^c, Dr. Ankit Saneja^{a,b}, Dr. Sushil K. Maurya^{c*}



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^bAcSIR-Academy of Scientific and Innovative Research, Ghaziabad-201002[U.P]
^cDepartment of Chemistry, University of Lucknow-226007[U.P]
- P-71** **“Fluorescent Probes for Explosive Detection: A Review”**
Aditi Singh¹, Prashasti Kalhans¹, Dr. Shashi Pandey^{1*}
¹Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow, 226007, Uttar Pradesh, India
- P-72** **Co (II) and Cu(II) Porphyrins Catalysed Synthesis of Quinoline and Naphthoxazine via Degydrogenative Reactions**
Ayush Bhardwaj¹, Pragati Kushwaha^{1*}
Department of Chemistry, University of Lucknow, Lucknow 226007, Uttar Pradesh, India
- P-73** **Evaluation of comparative biological potency of Michael addition conjugate of (1E,6E) 1,7 bis(4-hydroxy-3-methoxyphenyl) hepta-1,6-diene-3,5-dione via *in silico* and *in vitro* investigation, ADMET and DFT studies**
Astha Srivastava* and Sangeeta Srivastava
Department of chemistry, University of Lucknow, Lucknow-226007, India
- P-74** **Multicomponent reactions: A Versatile approach for an economic synthesis**
Yatharth Joshi, Prof. Vijai Kumar Rai*
Green Synthesis Lab, Department of Chemistry, Faculty of science, University of Lucknow, Lucknow-226007, U.P., India
- P-75** **Micellar Behaviour of SDS And CTAB With the Aid of Clopidogrel, A Cardiovascular Antiplatelet Drug, Using Physical and Computational Techniques**
Aditya Gupta, Indu Saxena[#]
Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow – 226007, INDIA.
- P-76** **Metal-Free Green Synthesis of Vicinal Diamines via Regioselective Ring-Opening of Aziridines**
Govind Sharma, Vijai Kumar Rai*
Green Synthesis lab, Department of Chemistry, University of Lucknow, Lucknow-226 007, U.P., India
- P-77** **Novel cost-effective Hibiscus flower based colorimetric paper sensor containing anthocyanins to monitoring the quality and freshness of raw fish**
Namarta Dixit, Sumbula Warsi, Adhish Jaiswal*
Department of Chemistry, University of Lucknow, Lucknow - 226007
- P-78** **Novel cost-effective Hibiscus flower based colorimetric paper sensor containing anthocyanins to monitoring the quality and freshness of raw fish**
Namarta Dixit, Sumbula Warsi, Adhish Jaiswal
Department of Chemistry, University of Lucknow, Lucknow - 226007



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- P-79** **Molecular docking studies and *in vitro* evaluation of newly synthesized steroidal derivatives as anti-cancer agents**
Anmol Verma and Saurabh Kumar Singh*
Department of Chemistry, University of Lucknow, Lucknow-226007, India
- P-80** **Synthesis, Molecular study and Spectral Evaluation of Pyrrole 4- imidazole derivatives**
Gargi Singh, Poonam Rawat, Vikas Baboo and R. N. Singh*
Department of Chemistry, University of Lucknow-226007
- P-81** **Finely tuning Cobalt Valence in Co₃O₄ Lattice through Chromium Substitution: Regulating the charge transfer and oxygen vacancies for Oxygen Evolution and Methanol Oxidation Reaction**
Prakhar Mishra[#], Narendra Kumar Singh*
Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow-226007, INDIA
- P-82** ***Capsicum annum* Extract Mediated Green Synthesis of Fe-Zn Nanocomposite for Remediation of Tetracycline Antibiotics in Aqueous Medium**
Riya Gupta¹, Dr. Pratibha Bansal^{1*}, Sumana Y Kotian², Akhilesh K. Yadav^{2*},
¹*Department of Chemistry, University of Lucknow, Lucknow 226007, Uttar Pradesh, India*
²*Assist Group CSIR-Indian Institute of Toxicology Research, Vishvighyan Bhawan, 31, Mahatma Gandhi Marg, Lucknow 26001, Uttar Pradesh, India*
- P-83** **Fabrication of silver-cobalt alloy nanoparticles for catalytic reduction of nitrophenol derivatives in wastewater treatment applications**
Nisha Gangwar¹, Chinky Gangwar², Joy Sarkar^{1*}
¹*Department of Chemistry, University of Lucknow, Lucknow-226007, U.P., India*
²*Department of Chemistry, B.S.N.V.P.G. College (KKV), Lucknow-226001, U.P., India*
- P-84** **Investigating the Acoustic Interactions, Molecular Dynamics and Biodegradation of HPMC Blended Polyethylene Glycol (PEG): A Sustainable Approach to Environmental Innovation**
Divyanshi Mishra, Indu Saxena[#]
Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow – 226007, INDIA.
- P-85** **Molecular engineering in Carbon Nitride/mesoporous Ni_{0.5}Co_{2.5}O₄ nanocomposite as bifunctional electrocatalyst for alkaline water splitting**
Yamini Singh[#], Narendra Kumar Singh*
Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow-226007 INDIA
- P-86** **New Heteroleptic bis-(diphenylphosphino)ethane appended dialkyldithiophosphatecobalt(III) cations: Apt electrocatalysts for heterogeneous Oxygen Evolution Reaction and homogeneous Hydrogen Evolution Reaction**



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Devyani Srivastava,^a Omoding Daniel,^a Aparna Kushwaha,^a and Abhinav Kumar^{a*}

^aDepartment of Chemistry, Faculty of Science, University of Lucknow, Lucknow 226 007, India.

- P-87** **Molecular Docking Studies of Optimized 7-(4-nitrophenyl)-5,7-dihydro-6H-benzo[6,7] chromeno[3,2-c][1,8] naphthyridin-6-one against Mycobacterium Tuberculosis**
Pulkit Sharma, Abha Bishnoi
- P-88** **Design, Synthesis, and Evaluation of Coumarin Hydrazone Derivatives as Potential Antidiabetic Agents: *In-vitro* and *In-silico* Analysis of α -glucosidase Inhibition.**
Shipra Gautam, Poonam Rawat, R. N. Singh
Department of Chemistry, University of Lucknow, Lucknow 226007, U.P., India
- P-89** **Graphitic Carbon Nitride based Nanocomposites for Electrochemical sensing of Environmental Contaminants: A Review**
Vishal Mishra¹, Kulvinder Singh², Pratibha Bansal^{1*}
1. Department of chemistry, University of Lucknow, LUCKNOW-226007, UTTAR PRADESH, INDIA
2. Department of Chemistry, DAV College, Sector 10, Chandigarh 160011, India.
- P-90** **Structure Elucidation of Novel tetrasaccharide having pentose sugar from A2 cow colostrum by 2D NMR**
Afra Khan, Desh Deepak and Manisha Shukla^{*}
Department of Chemistry, University of Lucknow, Lucknow- 226007(UP), India.
- P-91** **Comprehensive Exploration of Ampicillin-Schiff Base Complexes: Synthesis, DFT Insights, Molecular Docking, and Biotherapeutic Applications**
Farha Arshi, Swaila Bano, Saniya Firdaus, Saloni Srivastava and Ashok K.Singh^{*}
Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow-226007, India.
- P-92** **Mechanistic Insight into Epoxide-Based Ring Transformation**
Smriti Suryavanshi, Prof. Vijai Kumar Rai^{*}
Green Synthesis Lab, Department of Chemistry, University of Lucknow, Lucknow, U.P. 226 007, India
- P-93** **Isolation and structure elucidation hexasaccharide “pakose” isolated from tharparker cow**
Akanksha Yadav, Deshdeepak and Shashi Bala
Department of Chemistry, University of Lucknow
- P-94** **Evaluation of fluorescence properties of novel Lophine Derivatives**
Anant Ram, Anupama Pandey, Poonam Rawat^{*} and R.N. Singh^{*}
Department of Chemistry, University of Lucknow, Lucknow 226 007, India



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- P-95** **Triazole-pyrrole hybrids as antimicrobial agents: Synthesis, spectroscopic evaluation, molecular docking and ADMET**
Anupama Pandey, Anant Ram, Poonam Rawat*, and R. N. Singh*
Department of Chemistry, University of Lucknow, Lucknow – 226007
- P-96** **Impacts of Arsenic-Contaminated Soil and Water on Rice Quality and Safety**
Aseem Trivedi, Sejal Shukla, Jagriti Suryavanshi, Seema Mishra*
Department of Chemistry, University of Lucknow, Lucknow-226007, India
- P-97** **New –OH positional isomeric 1,1'-bis(diphenylphosphino)ferrocene appended Ni(II) dithiocarbamates as sensitizers in dye sensitized solar cells**
Madhav Raj Jayswal,^a Daniel Omoding,^a Suresh W. Gosavi,^b Mohd. Muddassir,^c Ratna Chauhan,^{d*} Abhinav Kumar,^{a*}
^a*Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow-226007, India.*
^b*Department of Physics, Savitribai Phule Pune University, Pune-411007, India*
^c*Department of Chemistry, College of Sciences, King Saud University, Riyadh 11451, Saudi Arabia*
^d*Department of Environmental Science, Savitribai Phule Pune University, Pune-411007, India.*
- P-98** **Ultrasonic Investigation of Molecular Interactions in Polymethylmethacrylate-Toluene Binary Liquid Mixture**
Preeti Yadav*, Indu Saxena
- P-99** **Iodobenzene-Catalyzed Synthesis of Fully Functionalized NH-Pyrazoles and Isoxazoles from α,β -Unsaturated Hydrazones and Oximes via 1,2-Aryl Shift**
Deepak Kumar, Vikram Singh, Bhoopendra Tiwari*
Department of Biological and Synthetic Chemistry, Centre of Biomedical Research, SGPGIMS-Campus, Raebareli Road, Lucknow 226014, India
- P-100** **Bio-inspired Nanoparticle Synthesis from Oligosaccharides: A Pathway to Green Technology**
Aparna Sharma, Desh Deepak and Shashi Bala
Department of Chemistry, University of Lucknow
- P-101** **Mixed-Ligand Complexes of Vanadium as Potential Biomolecules**
Kulsum Hashmi*, Seema Joshi**
Department of Chemistry, Isabella Thoburn College, Lucknow, UP 226007, India
- P-102** **Molecular docking based studies of the steroidal derivatives as anti-cancer agents**
Sanyukta Shukla, Saurabh Kumar Singh*
Department of Chemistry, University of Lucknow, Babujanj, Hasanganj, Lucknow, Uttar Pradesh, 226007



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- P-103** **Comprehensive Exploration of Ampicillin-Schiff Base Complexes: Synthesis, DFT Insights, Molecular Docking, and Biotherapeutic Applications**
Farha Arshi, Swaila Bano, Saniya Firdaus, Saloni Srivastava and Ashok K.Singh*
Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow-226007, India.
- P-104** **Design, Synthesis and Biological Evaluation of New Quinazolinone-Tetrazole Derivatives as Anticancer Agents**
Sumit Moulekhi,¹ N.K. Awasthi^{1*}
¹*Department of Chemistry B.S.N.V.PG. College Lucknow U.P. India-226001*
- P-105** **Pentafluoropyridine-mediated one-pot Strategy for the construction of biologically relevant 2,3-dihydroquinazolin-4(1H)-ones**
Shashi Pandey,¹ Ashish Kumar,^{2,3*} Monika Gupta,^{3*} Chatrasal S. Rajput²
¹*Department of Chemistry, University of Lucknow, Lucknow, Uttar Pradesh, 226007, India*
²*Chemistry Innovation Research Center, Jubilant Biosys Ltd, Knowledge Park II, Greater Noida, Uttar Pradesh, 201310, India*
³*School of Basic Sciences, Department of Chemistry, Babu Banarasi Das University, Lucknow, Uttar Pradesh, 227015, India*
- P-106** **NMR and Mass Spectral Interpretation of Cusose - A Novel Pentasaccharide Isolated from Goat Milk and Its DFT Studies**
Manisha Shukla^a, Shradha Jaiswal, Pushpraj Singh^b and Desh Deepak^{a*}
^a*Department of Chemistry, University of Lucknow, Lucknow-226007*
- P-107** **Isolation and structure elucidation of a resembling trisaccharide core unit from Friesian cow milk**
Unnati Singh, Desh Deepak and Manisha Shukla*
Department of chemistry, University of Lucknow, Lucknow-226007 (UP), India
- P-108** **Catalytic Synthesis of 1H-benzoxazolo[3,2-a]pyridin-1-ones via Formal [3 + 3] Annulations of NHC-generated Alkynyl Acylazoliums with Benzoxazolyl acetates and their Photophysical Studies**
Sibasis Sarkar, Suravi Das and Dr. Shikha Gandhi*
Department of Chemistry, IISER Berhampur, Berhampur, Odisha
- P-109** **Hyperbaric Oxygen Therapy for Cancer**
Dr. Manoj S. Dikkarwar, Sahil Devnani
DY Patil University School of Pharmacy, Sector 7, Nerul, Navi Mumbai, Maharashtra 400706