



5TH PAK-TURK INTERNATIONAL CONFERENCE ON CHEMICAL SCIENCES

December 04-05, 2025

Organized by: NCEAC, University of Sindh, Jamshoro, Pakistan

Hybrid Conference (In-person+Virtual)

Accepted Posters presentation in PTICCS-2025

PP-1	Phytochemical Analysis and Bioactive Components Investigation of Traditional Unani Herbal Formulations Used for Diabetic Mellitus Shazia Komal Junejo, Farah Naz Talpur & S. A. Junejo
PP-2	Enhanced Electro Active Properties of NiCo ₂ O ₄ Nanostructures Using Garlic Extract for the Sensitive and Selective Enzyme-Free Detection of Ascorbic Acid Abdul Ghafar Solangi, Tajnees Pirzada & Zafar Hussain Ibupoto
PP-3	In-vitro Study of Hybrid Silver Nanoparticles with Humic Acid Extracted from Cow Dung Against Pathogens Shabir Ahmed Dharejo, Tajnees Pirzada & Muhammad Raza Shah
PP-4	Synthesis and Characterization of Zinc Oxide Nanoparticles Hybrid with Humic Acid and its Applications in Agriculture Weenghar Ali Chandio, Tajnees Pirzada & Mir Munsif Ali Talpur
PP-5	Fabrication and Performance Evaluation of Graphene Oxide-Loaded Nanofiber Composites for Indoor Air Filtration Amna Abbas & Huma Shaikha
PP-6	Development of Electrochemical Sensors for Point-of-care Diagnostic of Disease Biomarkers Asifa Batool, Sanya Khursheed, Huma Ishaque & Muhammad Imran Malik
PP-7	Low Cost Thermally Activated Hydrocar for Adsorption of Metal Ions and Their Applications in Customized Water Filtration Imran Khan Rind, Najma Memon, Muhammad Yar Khuhawar, Muhammad Farooque Lanjwani & Waheed Ali Soomro
PP-8	Synthesis and Characterization of FeCuAl LDH and Photocatalytic Application Lala Faheem Memon & Jameel-ur-Rehman Memon

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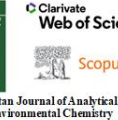
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PP-9	The Radish Leaf Mediated Selenium Nanoparticles for Colorimetric Sensing of Hg ²⁺ Ions from Water Noshad Razzaque, Hassan Imran Afridi, Farah Naz Talpur, Jameel Ahmed Baig, Sobia Kunbhar, Shagufta Qambrani, Sanam Rahujo & Shoaib Ahmed Hab
PP-10	Fabrication of Poly (Quinine-co-itaconic Acid) Incorporated Reduced Graphene Oxide Nanocomposite and its Application for Electrochemical Sensing and Photocatalysis of Hydroquinone Sehrish Khadim Hussain
PP-11	Electrochemical Dye Recovery as a Sustainable Route to Zero Liquid Discharge Dyeing Systems Pirh Muqaddisa & Najma Memon
PP-12	Graphene-based Hybrid Nanocomposites for High-Performance Supercapacitors via Electrophoretic Deposition Kissa E Zehra & Huma Shaikh
PP-13	Removal of Environmental Contaminants from Water Samples Using Magnetic Sorbent Coupled with Liquid Chromatography Muhammad Ahmed Chang, Najma Memon & Saima Q. Memon
PP-14	Development of Efficient Photothermal Materials for Solar Interfacial Desalination Shakeela Abbas & Najma Memon
PP-15	Conjugated Polymer Sensor Based Visual Detection of Hydrogen Peroxides Through Fluorescence Technique Tilok Chand
PP-16	Fabrication of Urea Imprinted Nano-Mats for Electrochemical Detection of Urea Asbah Kabeer, Huma Shaikh & Najma Memon
PP-17	Drug Delivery Application of Amphiphilic Molecules Fatima Iqbal

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PP-18	Analysis of Platinum-Based Anticancer Injections Cisplatin and Carboplatin in Blood Serum and Urine of Cancer Patients by Photometry, Fluorometry, Liquid Chromatography Using a Schiff-Base as Derivatizing Reagent Faiz Muhammad
PP-19	Enhanced Electrochemical Detection of Diclofenac Sodium in Pharmaceutical Formulations Using a PVP–SrO-Based Sensor Sana-ul-Nisa & Amber R. Solangi
PP-20	Synthesis of Heterogeneous Nano-Catalysts and their Application Mehrunnisa & Huma Shaikh
PP-21	Application of Fulvic Acid as a Green Carrier for Drug Delivery of Amoxicillin: Computational Assessment and Optimization Using Central Composite Design Kashan, Fakhar N. Memon, Pervez Ali Mahesar, Humera Moosa & Areesha Ashraf
PP-22	Fabrication of Flexible Counter Electrodes Based on Polymer-Modified Nanocarbon Ink and its Application in Wearable Conductive Electronics Ali Bux Dahri, Aqsa Memon, Iftikhar Ali Sahito, Anam Ali Memon & Najma Memon
PP-23	Tailoring Electronic and Sensing Properties of GCN Using Boron Doping and ZnO Functionalization for Endosulfan Detection Bakhtawar Khair Muhammad Pirzada & Najma Memon
PP-24	An Automated, Machine Learning Integrated Platform for Real-Time Quantification of Serum Creatinine in Clinical Samples Izzah Batool & Adeel Afzal
PP-25	Environmental Benign Synthesis of Silver Doped Copper Oxide Nanoparticles for Biomedical Applications Darshan & Waqas Jamilb

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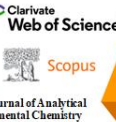
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PP-26	The Presence of Lead as a Neurotoxin in Inexpensive Toys Sold in Karachi, Pakistan Dur-e-Shahwar Gul, Anam Gul, Shaikh Mohiuddin & Irfan Gul
PP-27	Metal Squarate Complexes:- A Study of Synthesis, Characterization, Computational and Biological Properties Fatima Javeed, Shazia Nisar & Nasreen Fatima
PP-28	Fabrication of Functionalized Graphene Quantum Dot-Based Nanocomposites for Electrochemical Sensing of Hydroquinone Hafsa Ali, Amber R. Solangi & Huma Shaikh
PP-29	Fabrication of Silver Nanoparticles by Chemical Reduction Method and Their Application to Develop Calorimetric Sensors for Environmental Protection Hira Iaza Sahito, Nazar Hussain Kalwar, Sirajuddin, Syed Tufail Hussain Sherazi, Faraz Ahmed Kanhar, Abdul Wasiu, Saadat Ali, Ambreen Ansari, Shaiza Solangi & Suhana Solangi
PP-30	Bioactivity-Guided Identification of Methyl Gallate and Lipophilic Anti-Inflammatory, Antioxidant, and Urease Inhibitory Agents from <i>Detarium microcarpum</i> Stem Bark Kayode Muritala Salawu, Sammer Yousuf, Attia-tul-Wahab, Iqbal Mohammed Choudhary & Yan Wang
PP-31	Microwave-Assisted Synthesis of Nickel-Oxide/Cobalt-Oxide/Reduced-Graphene-Oxide Nanocomposite for Highly Sensitive Electrochemical Determination of Epicatechin in Food Samples Nadir H. Khand, Amber R. Solangi & Huma Shaikh
PP-32	Development of a P3HT-Assisted Palladium Nanoparticle-Modified ITO Electrode for High-Performance Electrochemical Detection of Cholecalciferol Sanya Khursheed & Muhammad Imran Malik

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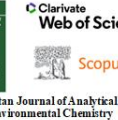
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PP-33	Smart Hybrid Nanocomposites for Total Volatile Basic Nitrogen Compound Detection in Food Quality Assessment Saba Iqbal, Shaikh Mohiuddin, Syeda Fariya Mehfooz, Laiba Khan Saqib Arif, Salman Khurshid, Qurrat ul Ain Akbar & Hafiza Mehwish Iqbal
PP-34	Green Synthesis of Nickel Oxide Nanoparticles with Selected Medicinal Plants and their Antimicrobial Activity Saima Mooro, Farah Naz Talpur, Nazir Ahmed Brohi & Hassan Imran Afridi
PP-35	Fabrication of Luteolin Imprinted Polymer Based Graphene Oxide Composite for the Electrochemical Detection of Luteolin Sania Munawar, Huma Shaikh & Amber R. Solangi
PP-36	Electrochemical Sensing of Malondialdehyde using Sericin Magnetite Composite (SER-M) for Monitoring Lipid Oxidation in Edible Oils Shazia Chohan, Ahmed Chang, Najma Memon & Bakhtawar Khair Muhammad Pirzada
PP-37	Smart Analytical Strategies for Halal Authentication: Dual ATR-FTIR and GC-FID Detection of Lard in Confectionery Products Sobia Kunbhar, Farah N. Talpur, Sarfaraz Ahmed Mahesar & Hassan Imran Afridi
PP-38	Photocatalytic Degradation of Eriochrome Black T Dye by ZnO Using Multivariate Methods Sanjna, Bibi Dua & Sawaira
PP-39	Co-crystallization as a Promising Approach to Overcome the Undesirable Properties of Drugs: A Systematic Study of Amphotericin B Yahya Sifan Wahan, M. Iqbal Choudhary & Sammer Yousuf
PP-40	An Efficient Synthesis of Iron oxide Nanosensor for Selective Detection of Fluoroquinolone Based Pharmaceutical Pollutants Ziana Manzar, Erum Hasan, Aiman Aleem, Yusra, Aleena & Syed Nawazish Ali
PP-41	Sustainable Development and Multi-technique Characterization of Bio-Based Chitosan Cartridge for Efficient Removal of Toxic Heavy Metals from Drinking Water Abdul Moiz, Rabia Aziz, Muhammad Imran Malik, Khalid Muhammad Khan & Muhammad Tahir Rafique

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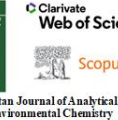
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PP-42	Gelatin-Stabilized Gold Nanoparticles for Efficient and Selective Colorimetric Detection of Chlorothalonil Alkhader Salem Kassem, Daim Asif Raja & Muhammad Imran Malik
PP-43	Application of Calcium-Coated Fe ₃ O ₄ Nanoparticles Incorporated in Humic Acid for Textile Dye Removal using Central Composite Design Sana Imam, Fakhar N. Memon, Humera Moosa, Areesha Ashraf & Alveena Khan
PP-44	Development of Solvent Microextraction Procedures for Preconcentration, Separation and AAS and HPLC for Determinations of Nickel at Trace Levels in Environmental Samples Waheed Ali Soomro & Muhammad Yar Khuhawar
PP-45	Spectrophotometric Analysis of Calix[4]arene Derivative for its Application in detection of Al ³⁺ in food samples Aysha, Tuba Saleh & Asif Ali Bhatti
PP-46	Carcinogenic and Non-Carcinogenic Health Risk Assessment of Heavy Metals Consumption Through Spices on Human Health in Karachi, Pakistan Faiza Nayyer, Saima Imad, Nasreen Fatima, Shazia Nisar, Sheraz Shafiq & Faisal Ghazanfer
PP-47	Synthesis and Characterizations of Highly Efficient Nickel Nanocatalysts and Their Use in Degradation of Organic Dyes Irum Sarfraz Junejo, Nazar Hussain Kalwar, Razium Ali Soomrob, Mariam Manzoor, Adeel Ahmed Bhatti & Farhan Ali
PP-48	Conducting Polymeric Zinc Ferrite Platform for Voltammetric Sensing of Esomeprazole Shakoor Ahmed Solangi, Jameel Ahmed Baig & Imam Bakhsh Solangi
PP-49	Antiglycation Activities of Dopamine Derivatives and Their Docking Against Human Serum Albumin Sheeba Rizvi, Sadaf Iqbal, Sidra Akhter, Nasreen Fatima, Shazia Nisar & Umair Aleem
PP-50	Highly Selective Separation of Fe, Co, and Ni using a Task-Specific Salicylate Imidazolium Ionic Liquid Shoaib Muhammad, Muhammad Naveed Javed, Komal Aziz Gill, Firdous Imran Ali, William Henderson, Ahmed Bari, Syed Ghulam Musharraf, Jameel Ahmed Baig & Imran Ali Hashmi
PP-51	Determination of Toxic and Essential Elements in Cow, Buffalo, and Goat Milk Samples from Various Areas of Taluka Tandojam District Hyderabad Sindh, Pakistan Soha Anwar & Mazhar Iqbal Khaskheli
PP-52	Sugar to Nano Sponge Tooba Abid, Shoaib Mohammad, Firdous Imran Ali, Kashif Riaz, Agha Arslan Wasim, Faisal Rafique, Furkan T. Saricaoglu & Imran Ali Hashmi

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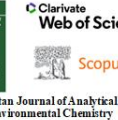
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PP-53	Microencapsulation of Bioactive Components Extracted from Deodorizer Distillate of Vegetable Oil by Spray Drying Technology Zahid Hussain Laghari, Sarfaraz Ahmed Mahesar & Abdul Hameed Kori
PP-54	Enhancement in the Antibacterial Activity of Rifaximin by Delivery Through Gelatin Nanoparticles Amber Bano, Nida Iqbal, Imran Saleem & Muhammad Imran Malik
PP-55	Nature-Derived Oral Care: Extraction and Characterization of Papain From Papaya Leaves For Herbal Tooth Paste Formulation Fatima Shahid, Farah Rehman & Ayisha Aman Ullah
PP-56	Biomediated Synthesis of Ag-Cu-Co Trimetallic Nanoparticles & Their Applications Ume Hanees Khanzada & Muhammad Younis Talpura
PP-57	Advanced Hybrid Membranes Integrated with Functionalized Carbon-Based Nanomaterials for Safe PFAS Filtration Hajira Akbar, Muhammad Imran Malik, Dilshid Hussan, Syed Sibte-e-Hassan & Syed Ghulam Musharraf
PP-58	Isoxazole- and Triazole-Tethered Tricyclic Analogues: Synthesis and Biological Activities Umm-E-Farwa, Fatima Z. Basha, Keykavous Parang & Maria Aqeel Khan
PP-59	Synthesis of Thiourea Based Organogelators Derived from DAA and Their Applications Afsheen Afsar, Kashif Riaz, Shoaib Muhammad, Imran Ali Hashmi, Muhammad Naveed Javed, Ahmad Bari, & Firdous Imran Ali
PP-60	Synthesis and Characterization of Sugarcane wax Based Edible Coatings to Enhance the Post-harvest Quality of Tomatoes Muhammad Fahad Kashif, Sameera Zaki, Saeeda Nadir Ali, Mahwish Touheed, Philippe Daniel, Aneela Siddiqui, Ali Dad Chandio & Iftikhar Ahmed Channa
PP-61	Rapid sono-adsorptive removal of Congo Red Dye by CuO-TiO ₂ nanoparticles Muhammad Asif, Muhammad Saad & Muhammad Tauqeer Ahmed
PP-62	Synthesis and Characterization of Cellulose Iron Oxide Nanocomposite for Removal of Metronidazole Antibiotic Drug from Waster Water Noor zaman & Farah Naz Talpur
PP-63	Sugarcane Wax-based Solid Lipid Nanoparticles as an Atorvastatin Carrier: Characterization and In-Vivo Evaluation of Antihyperlipidemic Activity in Rats Ramsha Shamshad, Saeeda Nadir Ali, Somia Gul, Syed Sarim Ahmed, Ali Dad Chandio, Ayesha Aziz Philippe Daniel & Iftikhar Ahmed Channa
PP-64	Biosynthesis of Transition Metal Doped Oxide Nanoparticles and Their Multifaceted Applications Ruqia Ghayoor, Qadeer Khan Panhwar & Muhammad Younis Talpura
PP-65	Quercetin Capped Au-Ag Bimetallic Nanoparticles for the Detection of Calcium Dobesilate Monohydrate in Biological and Environmental Samples Shaz Asrar, Amtul Qayoom, Saeeda Nadir Ali & Dilshad Hussain

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PP-66	Binary Nickel–Cobalt Ferrite Nanocomposite-Based Electrochemical Sensor for the Simultaneous Detection of Trace Elements in Environmental Samples Zahid Ali, Hassan Imran Afridi & Jameel Ahmed Baig
PP-67	Potassium Bromate–Mediated Decolorization of Reactive Black B Noshab Qamar & Maria Ashfaq
PP-68	Mechanistic Insights into the Adsorption Kinetics and Isotherm Studies of Organic Pollutant Maria Ashfaq & Noshab Qamar
PP-69	An Examination of Long-Term Corrosion Behavior of Mild Steel in Ten Different Sites of a Coastal Megacity Located on China's One Belt One Road Initiative Faiza Zafar, Humaira Bano, M. Farooq Wahab, Maryam Obaid & Francisco Corvo
PP-70	SrO/La ₂ O ₃ -Decorated rGO Nanoclusters For Efficient Degradation Of Dyes Ramsha Shahid & Huma Muddasar
PP-71	Synthesis of Smart Nanofibers and Their Application for Sustained Release of Fertilizer Irsa Munwar & Huma Muddasar
PP-72	Remediation of Malachite Green Dye using SnO ₂ as a Photocatalyst Kamila
PP-73	Synthesis, Characterization, and Applications of Nano Fibrous Polystyrene Derivatives Aisha Siddiqua & Waqas Jamil

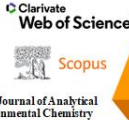
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