

BEST PAPER AWARD IChE-CHEMCON 2023

AbstractID	NAME	CO - AUTHOR	Choice of Presentation	TITLE OF ABSTRACT
ACE-OP100	Swarnajit Bhattacharya	Biswajit Mandal	Oral	IOT Based Smart Air Health Monitoring System for Process industries and Domestic Uses
ACE-OP114	Vivek Kumar Mishra	Biswanath Sen (Indira Gandhi Centre For Atomic Research, Kalpakkam)	Oral	Effect of non-condensable gas on thermal characteristics of thermosyphon relevant to nuclear fuel storage vault
ACE-OP187	Umang Goswami	Hariprasad Kodamana	Oral	Graph Auto-encoder Based Fault Detection Approach for Chemical Process Systems
ACE-OP47	Sudipto Chakraborty	Subhankar Bhattacharjee	Oral	Modeling and Optimization of Benzol recovery from Coke-Oven Gas using Aspen™
ACE-OP48	Ashutosh Yadav	Dhakane Vishal	Oral	A Deep Neural Network (DNN)-CFD Modeling of a Slurry Bubble Column Reactor
ACE-OP50	Sahithi Ravuluri	Sk Shabina, Dr. Pc Sahoo, Dr. I.R. Choudhury, Sarvesh Kumar, Dr. M. Sau	Oral	Aspen based Optimizer for Automatic Selection of Mixed Amine Solvents for CO2 Capture
ACE-OP56	Asit Kumar Saha	Upakatha Jas, Sonali Samanta, Sarnali Roy	Oral	Performance Improvement of a PSA Oxygen Concentrator Using a Magnetic Field
ACE-OP77	Kapil Kale		Oral	Need & Tools for Plant Digitization In Chemical Process Plants
ACE-OP80	Sreya Banerjee	Debasis Sarkar	Oral	Optimization of Batch Cooling Preferential Crystallization under Model Parameter Uncertainty
ACE-OP85	Pranit Samanta	Kamal. K. Pant, Manjesh Kumar	Oral	Regulating Aluminium Speciation within Zeolitic Framework of Beta (β)
ACE-OP9	Prajakta Shigwan	Nitin Padhiyar	Oral	Design of Membrane Reactor Using Multi-Objective Optimization for the Methane Reforming Process
ACE-OP93	Pankaj Negi	Triloki Nath	Oral	Numerical Studies on Non-Newtonian Slurry Flow During Casting of Composite Solid Rocket Propellants
ACE-PP17	Kaushik Kundu	Kamal Kishore Pant	Poster	Prediction and Optimization of Syngas Yield from Biomass using Multivariate LSTM
ACE-PP36	Aviti Katare	Bishnupada Mandal	Oral	Synergistic Enhancement of CO ₂ /N ₂ separation performance via Ce-MOF infused Chitosan Mixed Matrix Membrane
ACE-PP4	Srishti Priya	Satish Kumar Velaga, R.Rohini, P.Varadharajan, J.Kodandaraman I, K.Rajan, K. Ananthasivan	Poster	HYDRODYNAMICS OF A ROTATING SOLID-LIQUID FEED CLARIFICATION SYSTEM
ANN-OP105	Debkrisna Dey	Manjesh Kumar	Oral	Morphological Evolution in Solvent-Free Zeolite Synthesis
ANN-OP114	Bhoomika C. V, Swathi M. W.	Krishnamurthy Sainath	Oral	Cobalt-based Leaf-like ZIF for Cr(VI) Removal: A Novel Nanomaterial
ANN-OP120	Vidya Shetty Kodialbail, Preethi Shetty	Chetan Munegowda, Shivani Ramprasad Jambur, Deekshitha Kulal, Anjali Sunil Pawar, Thanush Shetty	Oral	Bio-chemo sequential synthesis of silver oxide nanoparticles embedded in TiO ₂ shell (BioAg ₂ O@TiO ₂): A visible light active photocatalyst for dye degradation
ANN-OP21	Annesha Basu	Dr. Ranjana Das	Oral	Biogenic synthesis and characterization of silver nanoparticles using Mango (Mangifera indica) seed kernel extract and evaluation of the functional properties
ANN-OP54	Prama Adhya	Manish Kaushal	Oral	Rheological Analysis of Polymer grafted silica dispersions
ANN-OP57	Rupak Kishor	Rupak Kishor	Oral	Potential Applications of Carbon Nanotubes in Environmental Remediation
ANN-OP60	Moulie Ghosh, Sridhar Dalai	Dr. Sridhar Dalai	Oral	XRD analysis of nanosized silicon derived from broken glassware
ANN-OP63	Kovo A.S	Eluwa V	Oral	Toward industrial Production of Linde Type A Zeolite for Various Applications from Nigerian Kaolin Deposit : A first attempt at Investigation of Process variables
ANN-OP84	Alaka Atrey, Diksha K, Hari Prasad Uppara	Dr. Hari Prasad Uppara	Oral	Structural, surface morphological and photocatalytic properties of MOF derived CuO catalysts

ANN-OP96	P H Sai Siddharth	Dr. Dharitri Rath	Oral	Synthesis and Characterization of Magnetic Carbon Nanofiber Nanocomposite for Electrochemical Biosensor Applications
ANN-PP21	Amalika Patra	Uday Narayan Maiti (Indian Institute Of Technology, Guwahati))	Poster	MXene-Polyaniline Hybrid Hydrogel for Supercapacitive Energy Storage
ANN-PP26	Labony Goswami	Subhendu Chakroborty	Poster	Exploring Synergistic Advantages: A Comprehensive Study of the Physicochemical and Electrochemical Sensing Characteristics of CuO-ZrO ₂ Mixed Metal Oxide Nanocomposites
ANN-PP30	SMRUTI NAIK	ARITRA DAS,AZAJUL, MADHULIKA,SOMNATH GHOSH	Poster	Effect of etching agents on porous colloids
ANN-PP37	TWAMIKA ATRI, RAJNANDHI	M.S. BALATHANIGAIMANI, KARAN MALIK	Poster	Enhancing Oxygen Concentration in Enclosed Spaces to Mitigate Air Pollution: Zeolite 5A as a Cost-effective Solution
ANN-PP7	Ashish Pandey	Nilesh Pathak, Hardeep Verma, Ishant Tagore, Srinu Nagireddi, Manish Sudhakar Khodwe	Poster	Green Synthesis of Various Metal Nanoparticles and the Evaluation of their Photocatalytic Applications
APC-OP38	Jayati Sarkar	Yedla Venkata Durga Anudeep, Shriya Grover, Lucinda Elizabeth Doyle	Oral	Fabrication of polymer based electrodes for Microbial Fuel Cell applications
APC-OP41	Hrishita Barman	Chandan Datta	Oral	Mechanical Behavior of hybrid fiber reinforced epoxy/polyester
APC-OP7	Tarak Patra	Himanshu, Nayan Vengallur	Oral	Mixing of polymer blends via reversible dynamic crosslinks
APC-PP1	Anirban Chakraborty	Dr. Debarati Mitra (University Of Calcutta)	Poster	Novel polyester amide resin development from a sustainable resource
APC-PP13	Kakara Sujay Raj, Vemulavada Bhargavi, Gunti Revanth, Nakkana Nikhila, Peruri Sasi Kumar, Chekuri Sushma, Bojja Sudhamai	Kakara Sujay Raj, Vemulavada Bhargavi, Gunti Revanth, Nakkana Nikhila, Peruri Sasi Kumar, Chekuri Sushma, Bojja Sudhamai	Poster	Polymer Technology in leading science
APC-PP3	Devendra Kumar Gond	Vijay Laxmi Yadav	Poster	Synthesis and Characterization of Environment-Friendly Composite Film Using ramie fiber and Polyvinyl Alcohol
BBE-OP44	Shariq Farhan Elahi	Ejaz Ahmad	Oral	Catalytic Production of Butyl Butyrate as a Sustainable Bio-Aviation Fuel using Silicomolybdc Acidic Catalyst
BBE-OP53	Suparna Sen	Kalyan Gayen, Tridib Kumar Bhowmick	Oral	Anti-bacterial activity of extracted extracellular polysaccharide from isolated Oscillatoria sp. from North East (Tripura)
BBE-OP58	Biju Jacob	Atul Narang	Oral	Experimental validation of a simple unstructured model for respiro-fermentative growth of Scheffersomyces stipitis
BBE-OP64	Madhurima Datta	Abhyuday Mallick, Subrata Mukherjee	Oral	CFD Simulation of Arterial Hypotension in a Left Anterior Coronary Artery Section with Potential Clinical Relevance
BBE-OP69	Kumkum Kedia , Ammaar Ahmad Khan	Abhyuday Mallick, Subrata Mukherjee	Oral	CFD Simulation of Blood-mediated Drug Transport through a Dense Solid Tumor
BBE-OP80	Praneel Bhattacharya	Abhyuday Mallick, Subrata Mukherjee	Oral	Investigation of Atherosclerotic Stenosis Effects on Bifurcated Carotid Artery Hemodynamics with Computational Fluid Dynamics
BBE-OP90	Priyanka Gupta		Oral	Recent Advancements in Solar-Driven CO ₂ Bioelectrosynthesis
BBE-OP95	Khwaja Alamgir Ahmad	Ejaz Ahmad	Oral	Elucidating the Catalytic Function of Heteropolyacid Catalysts in Butyl Levulinate Synthesis for Green Diesel fuel Additive Production
BBE-PP11	Neha Dhiman	Dr. Bipul Sarkar	Poster	Vapour Phase Dehydration of sorbitol to isosorbide over Vanadium Phosphate Catalyst.
BBE-PP23	Ajinkya Hariram Dabhade	Dr. Biswajit Saha	Poster	Development of aptamer-based electrochemical biosensor using Ag-modified screen-printed carbon electrode for the detection of E. coli in water sample

BBE-PP27	Aneshwa Chakrabarti	Mili Bhowmik, Dr. Nandan Kumar Jana	Poster	In-silico designing of inhibitors against telomerase enzyme for treatment of breast cancer
BBE-PP37	A. Arun Kumar. Akhila S. Hegde	Dr. Kavitha S.H.	Poster	Bioprocess Innovation Study to Maximize Trans-esterified Products from Triglycerides Obtained from Non-edible Sources
EE-OP11	Guruprasad Bhattacharya	Amar Nath Samanta	Oral	Electrocatalytic conversion of CO ₂ to CO using Copper based catalyst under low overpotential range
EE-OP119	Kishore Kumar Gulipilli		Oral	Characteristics of coffee husk blending with Indian coal and study the thermal behavior for power generation
EE-OP123	M. Balamurugan	K A Venkatesan	Oral	Performance evaluation of a single stage annular centrifugal extractor for the extraction of Nd(III) in TODGA-TBP/n-dodecane system
EE-OP157	Shivam Ashok Dixit	Dr. Satyen Kumar Das	Oral	Bio-oil conversion in a Delayed Coker Unit: A Green Solution for Energy Transition
EE-OP160	Sanyam Jain	Dr. Shushil Kumar	Oral	Valorization of the Fractionates of the Rice Straw
EE-OP161	Susmita Kar	Dr. Sourja Ghosh, (Csir-Central Glass And Ceramic Research Institute)	Oral	Valorization of Industrial waste into surface engineered biochar: A sustainable solution for abatement of emerging contaminants from wastewater and green energy production
EE-OP173	Mohd Saif	Raj Kiran	Oral	Hydrogen Storage in Rock Salt Caverns: A Renewable Energy-Powered Approach for Short-Term Storage and Flexible Extraction
EE-OP174	Ajeet Kumar Prajapati	Rakesh Kumar	Oral	Exploring the Fuel Properties of Tire Pyrolysis Oil through the Synergistic Blending of Used Cooking Oil Biodiesel with Oxygenated Additives
EE-OP193	Sanjay Bhardwaj	Sanjay Bhardwaj	Oral	Translational Research in Sonochemistry
EE-OP199	Rahul Sarkhel	Rajnish Kumar, Jitendra S. Sangwai	Oral	Growth Kinetics of CO ₂ hydrate with CO ₂ -philic Additives: Relevant for Carbon Capture and Sequestration (CCS)
EE-OP40	Priyanka Tripathi	Lakshminarayana Rao	Oral	Pyrolysis and combustion studies of refuse derived fuel pellets having varying plastic compositions
EE-OP50	Neha Tiwari	Ramesh Guduru	Oral	Electrochemical Approaches for Atmospheric CO ₂ Capture: A brief review
EE-OP62	Antra Choubey	Dr. Ashish Yadav	Oral	Bimetallic transition metal chalcogenides as electrode material for supercapacitor application
EE-OP70	Pavan Kumar Gupta	Sudip Maity, Vineet Kumar, Shiva K. Saw, Shweta Kumari, Sudipta Datta, Gajanan Sahu	Oral	Effect of Zr-Ru promotion on SBA-15 supported Fe catalysts for Fischer-Tropsch production
EE-OP73	Madhavaiah Nalabala	Srikanta Dinda	Oral	Estimating Energy Loss and Endothermicity of Hydrocarbon Fuels under Supercritical Conditions: A new Approach
EE-OP74	Saimatun Nisa	Saimatun Nisa & Gaurav A Bhaduri	Oral	Investigation of water retention in sandy soil using chemical treated and untreated walnut shell char
EE-OP96	Swapnil Patil	Shaswattam, Subrata Sarkar, Neeraj Goswami, Sahil Chopra, Ankit Gupta	Oral	Utilization of CO ₂ from Coal Fired Power Plant
EE-PP10	Shiva Kumar Saw	Pavan K. Gupta, Sudipta Datta, Shweta Kumari, Gajanan Sahu, Prakash D. Chavan	Poster	Coal syngas to Methanol: CSIR-CIMFR initiatives
EE-PP16	Umesh	Vijayanand S. Moholkar	Poster	Mechanistic Investigation of Ultrasound-Assisted Saccharification of Lignocellulose Biomass: Using Molecular Docking and Molecular Dynamics Simulations
EE-PP72	Sudev Das	Maria Thomas, Chinumaya Naik, Johnsan R	Poster	Convective Heat Transfer Performance on Microporous Biphilic Surface
TET-OP23	Keshav Kumar	Rajesh Kumar Upadhyay	Oral	Performance Study and Scalability of Multi-pass Membrane Separator for Improved Hydrogen Recovery Using Palladium-based Membrane

TET-OP24	Subham Khange	Dr. Ashwini Kumar Sharma	Oral	Model-based Investigation of the Combined Effects of Fast Charging and Temperature on Li-ion Battery Aging
TET-OP34	Ullas Krishnan J N	Sourav Poddar, T Sriharsha, Gowri Shankar, Ashwin Kumar Maroli, Sarat Chandra Babu J	Oral	Alumina-based Multi-metal Catalyst for E-waste management for reclamation of valuable products
TET-OP60	Ashwin Yashawanth Hegde	Pradeep Kumar Sow, Bits Pilani, KK Birla Goa Campus	Oral	Unraveling the Performance Dependence of the electrochemical HI decomposition on the HIx composition from the Bunsen section in the Iodine-Sulfur Thermochemical Cycle for hydrogen production
TET-PP14	Abhishek Bhadani, Omkar Singh Kushwaha	Omkar Singh Kushwaha	Poster	Enhanced Cold Energy Storage Efficiencies in Semi-Clathrate Hydrates by the Application of Quaternized Ammonium Salts
TET-PP20	Deblina Sengupta	Ujjaini Sarkar	Poster	Synthesis of Butyl butyrate in aqueous and organic solvents using lipase as a catalyst
TET-PP6	Pranab Bera	Dr. Uday Narayan Maiti	Poster	Alleviation of dendrite formation on Zn anode by an efficient electrolyte additive of potassium chloride for aqueous Zinc-ion batteries
WWT-OP124	Poumi Ghosh	Swami Vedajnananda, Debtaru Chatterjee	Oral	Studies on Innovative Grey-water Treatment and Reuse for Villages using Reed Bed and Root Zone Treatment
WWT-OP136	Drishti Bhatia	Anil K. Saroha	Oral	Rice Straw derived Biochar as an Adsorbent for Removal of Phenol from Water
WWT-OP140	Bharat Bhushan Negi	Prof. Chandan Das	Oral	Mycoremediation of refinery wastewater and simultaneous removal of heavy metals
WWT-OP142	Parvathi D Bhat, Abhirami Gajendra Prasad, Neha Madi Sural	Parvathi D Bhat, Abhirami Gajendra Prasad, Neha Madi Sural	Oral	Wastewater Management: Sensor integration with manual filtration and multi-parameter monitoring for testing water quality
WWT-OP143	Aswani K Viswanath	Iit Guwahati	Oral	Fabrication of novel tubular ceramic membrane using pyrophyllite and activated carbon by extrusion method and its performance in ultrafiltration of treated oily wastewater
WWT-OP153	Soumen Basu	Surbhi Sharma	Oral	Advanced Monolithic Metal Oxide/Sulfide Structures for Efficient Photocatalytic Decomposition of Organic Contaminants
WWT-OP2	Vijay Kumar Singh	Ayantika Sett, Sankha Karmakar	Oral	Waste to Wealth: Mechanistic insights into remediation of arsenic from groundwater using encapsulated red mud waste
WWT-OP22	Khandgave Santosh Sopanrao	Inkollu Sreedhar	Oral	Chitosan Biochar Composite for Sustainable Zn(II) Removal: Synthesis, Parametric study, Equilibrium, Characterization, and Regeneration
WWT-OP39	Vishwas Saini, Raj Kumar Singh, Tasmia Falaque,	Vishwas Saini	Oral	Modified Biopolymeric membrane for water treatment applications
WWT-PP13	Alisha Zaffar	P Balasubramanian	Poster	Assessing the effect of different drying conditions on struvite quality and kinetic modelling for easier and cost-effective downstream processing
WWT-PP38	N.P.Dharmadhikari	Neeta P. Sarode , S.D Kulkarni	Poster	Comparative Analysis of Radon concentration level in Groundwater and Non-groundwater sites Soil Samples from Pune Region, Maharashtra, India
WWT-PP50	Meer Vinod Rajgor	Darshan Ashok Hirapara, Sanjay Kumar	Poster	Removal of Chromium (VI) from wastewater with using Aquatic Plants
WWT-PP53	Sikha	Bishnupada Mandal	Poster	Cerium-based metal-organic-frameworks with ligand tuning of the microstructures for fluoride adsorption: Linear and nonlinear kinetic and isotherm adsorption models