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| OP-01 | Green Synthesis of Silver Bionanocomposite; A Comparative Study With The Concentration of Silver Nitrate, Tanmoy Dutta, Asoke Prasun Chattopadhyay, **Mahuya Das**  *Department of Chemistry, JIS College of Engineering, Kalyani, Nadia,WB.* |
| OP-02 | Studies on Preparation and Characterization of Silver Nanocomposites Combined with Antibiotics, Soni, Saundray Raj; **Ghosh, Animesh,**  *Department of Pharmaceutical Sciences and Technology, Birla Institute of Technology, Mesra*. |
| OP-03 | Synthesis of Acacia Gum-Based Nano Formulations, **Siddiqui Mahtab Z**., Chowdhury Arnab Roy And Ali Mohd,  *Processing and Product Development Division, ICAR- Indian  Institute  of  Natural Resins  &  Gums, Namkum, Ranchi – 834 010 (Jharkhand), India.* |
| OP-04 | A Computational Study on the Augmentation of Heat Transfer from Tube in A Cross Flow - Sagarika, **Dhiman S. K.**  *Department of Mechanical Engineering, Birla Institute of Technology, Ranchi, 835215 - India.* |
| OP-05 | Alkali Assisted Dissolution of Fly Ash: A Shrinking Core Model Under Pseudo Steady State Finite Solution Volume Condition - **Rajak K Dilip**, Guria Chandan And Pathak K Akhilendra  *Department of Petroleum Engineering, Indian School of Mines, Dhanbad 826 004, India.* |
| OP-06 | Application of Elitist Non-Dominated Sorting Genetic Algorithm For Oil-Well Drilling Optimization - **Kumar,Mithilesh** And Guria,Chandan  *Department of Petroleum Engineering, Indian School of Mines, Dhanbad 826 004, India.* |
| OP-07 | Single Wall Carbon Nano-Tube Engendered Polymer Chain Organizations: Molecular Dynamics Simulation - **Sunil Kumar**, Sudip K. Pattanayek  *Department of Chemical Engineering, Indian Institute of Technology (IIT), New Delhi-110016.* |
| OP-08 | Study of Tensile Properties of ABS/ZnO Polymer Composites Using Single and Multiple Optimisation Techniques - Rampuria Samkit, **Jayapalan Sudeepan**  *Department of Chemical Engineering and Technology, Birla Institute of Technology, Mesra, Ranchi, Jharkhand.* |
| OP-09 | Response Surface Modeling for Optimization of Co-Cracking of Jatropha Oil - **Biswas Shelly**, Sharma Dk , Kumar Rajiv  *Centre For Energy Studies, Indian Institute of Technology, Delhi, India-110016* |
| OP-10 | Optimization of NPK-10:26:26 Based Culture Medium for Cultivation of *Dunaliella Tertiolecta* Using Response Surface Methodology - **Anup Kumar**, Chandan Guria And Akhilendra K Pathak  *Department of Petroleum Engineering, Indian School of Mines, Dhanbad 826 004, India* |
| OP- 11 | Chemical Corrosion – a silent killer in process industry - **Sisir Kumar Chakraborty**, A B Biswas, Bhaskar Das, S K Das  *Dept. Of Chemical Engineering, Calcutta University.* |
| OP-12 | Development of fire retardant silica powder - **Vibha Shree**, A. K. Sen  *Department of Chemical Engineering and Technology, Birla Institute of Technology, Mesra, Ranchi, Jharkhand* |
| OP-13 | Adsorptive Removal of Cr(VI) From Aqueous Solutions Using Nut Shells - **Abhishek Das** and Sudip Kumar Das  *Dept. Of Chemical Engineering, Calcutta University* |
| OP-14 | Study of Adsorption of Methylene Blue From Aqueous Solution by Chicken Egg Shell Powder - **Koushik Ghosh**, Asit Baran Biswas  *Dept. Of Chemical Engineering, Calcutta University* |
| OP- 15 | Comparative Study on Adsorption of Chloride and Salicylic Acid for Their Preferable Application as Tracer in Sand and Shale Formation - Archana, **Keka Ojha**  *Department of Petroleum Engineering, Indian School of Mines, Dhanbad 826 004, India* |
| OP-16 | Fully Exfoliated Titanate Nanosheet-Functionalized Amylopectin Towardseffective Separation of Cationic/Anionic Dyes - **Amit Kumar Sarkar**, Sagar Pal  *Polymer chemistry Laboratory, Department of Applied Chemistry, Indian School of Mines, Dhanbad- 826004, India* |
| OP-17 | Liquid-Liquid Equilibria Prediction of Ternary System Using PC-Saft Model - **Prerna; Bharti,** Anand; Banarjee, Tamal  *Department of Chemical Engineering, Birla Institute of Technology, Mesra, Ranchi, Jharkhand 835215, India Department of Chemical Engineering, Indian Institute of Technology Guwahati, Guwahati, Assam 781039, India* |
| OP-18 | Analysis of CO2 Sequestration in Low Permeable Geological Formations - Srinivas Anish, K, Prasanna R.Redapangu, Gauri Sankar, Manojkumar Gudala  *Department of Mechanical Engineering, K L University, Green Fields, Guntur-522502* |
| OP- 19 | Effect of Copolymer Functionalized Graphene Oxideat Low Loadingon Interfacial, Thermo-Mechanical and Wear Properties Epoxy Nanocomposites - **Rohini Rani**, K Lasitha, Bose Suryasarathi,  *Department of Materials Engineering, Indian Institute of Science, Bangalore-560012, India.* |
| OP-20 | Debonding Analysis of Adhesive Joints in Carbon-Epoxy Composite Laminates - **Raghu Raja Pandiyan Kuppusamy**  *Department of Chemical Engineering and Technology, Birla Institute of Technology, Mesra, Ranchi, Jharkhand.* |
| OP-21 | Effect of Surface Treatment of Natural Reinforcement on Vinyl Etser Based IPN Composites - **J. K. Ranjan**, R.R. Pandiyan, S. Goswami  *Department of Chemical Engineering and Technology, Birla Institute of Technology, Mesra, Ranchi, Jharkhand.* |
| OP-22 | A Comparative Study on Rheological and Thermal Kinetic behaviour of Native and Acrylamide Grafted Galactomannans - Soni, Saundray Raj; Ghosh, **Animesh**  *Department of Pharmaceutical Sciences and Technology, Birla Institute of Technology, Mesra*. |
| OP-23 | Heavy Crude Oil Flow Through Pipelines Using Surfactant - Naiya, T.K., Kumar, R., Banerjee, S., Mandal  *Department of Petroleum Engineering, Indian School of Mines, Dhanbad* |
| OP- 24 | A Study on Surface Tension and Rheological Properties of Sal Oil Methyl Ester Biodiesel and Its Blends with Petrodiesel - Hajra,Bhaskar\*;Kumar,Mithilesh;Pathak,Akhilendra K and Guria,Chandan  *Department of Petroleum Engineering, Indian School of Mines, Dhanbad.* |
| OP-25 | Comparative Studies on Effectiveness of Natural and Commercial Surfactant to Improve Rheological Properties of Crude for Pipeline Transportation - Banerjee, S., Kumar, R., Mandal, A., Naiya, T.K  *Department of Petroleum Engineering, Indian School of Mines, Dhanbad.* |
| OP-26 | Isolation, Characterization and Rheology of Exopolysaccharide from Thermophilic Bacteria - **Banerjee, Aparna**; Bandopadhyay, Rajib  *UGC-Center of Advanced study, Department of Botany, The University of Burdwan, Golapbag, Bardhaman-713104, West Bengal, India.* |
| OP- 27 | Prediction of Temperature Distribution Inside A Tumor During Magnetic Fluid Hyperthermia - Koustov Adhikary, Moloy Banerjee  *Department of Mechanical Engineering, Future Institute of Engineering and Management, Sonarpur Station Road, Kolkata-700150, INDIA.* |
| OP-28 | Extra Polymeric Biomaterial from Deep Southern Ocean Isolate *Bacillus Stratosphericus*: Its Production Optimization, Characterization and Uses - **Halder, Urmi**; Banerjee, Aparna and Bandopadhyay, Rajib  *UGC-Center of Advanced study, Department of Botany, The University of Burdwan, Golapbag, Bardhaman-713104, West Bengal, India.* |
| OP-29 | Study of Stimuli Sensitive Blend of PVA-Gelatin - **Deepanjan Datta**, Trishna Bal, Sudipta Goswami  *Department of Pharmaceutical Sciences and Technology, Birla Institute of Technology, Mesra*. |
| OP-30 | Modified polysaccharide-based hydrogels for bone tissue engineering, **Luna Goswami**,Satish Kumar, Priyanka Choudhury, Abhishek Singh, Sridhar Sanyasi  *KIIT School of Biotechnology, KIIT University Campus-XI, Patia, Bhubaneswar-751024, Orissa, India.* |
| OP -31 | A comparative study of drug release phenomenon by PVA/Gelatin blends prepared by physical and chemical crosslinking ,**Namrata Gummalla**, S Goswami  *Department of Chemical Engineering and Technology, Birla Institute of Technology, Mesra, Ranchi, Jharkhand.* |
| OP- 32 | Towards Achieving Optimum Drier/Anti-Oxidant Dosage Combination for Vegetable Oil-Based Offset Ink Design - **Biswas, Mahuya**;Bhattacharya, Moumita ;Dey, Munmun; Debnath, Shankhya; Bandyopadhyay, Abhijit  *Department of Polymer Science and Technology, University of Calcutta, 92, A.P. C. Road, Kolkata – 700009, India.* |
| OP-33 | Natural coating on Paper Packaging Materials - **M F Ansari** and N Prasad  *Processing and Product Development Division, ICAR-Indian Institute of Natural Resins and Gums, Ranchi.* |
| OP-34 | Natural Polysaccharides based hydrogels in drug delivery: Profress and Challenges - **S. K. S Yadav**  *ICAR-Indian Institute of Natural Resins & Gums, Namkum, Ranchi – 834 010, India.* |
| OP-35 | Ozonation for Pesticide Removal from Capsicum Fruits and its Effect on Nutritional Quality - **Swami Saurabh** and Singh Shashi Bala,  *Process &Product Development Division, ICAR –Indian Institute of Natural Resins and Gums, Ranchi 834010.* |
| OP- 36 | Study of Application of Cinnamic Acid Grafted Sodium Alginate in Clarification of Sugarcane Juice - Rani Priti, **Pal Pinki**, Mishra Sumit, Pandey Jai Prakash, Sen Gautam,  *Department of Chemistry, Birla Institute of Technology, Mesra, Ranchi – 835215, Jharkhand, India.* |
| OP-37 | Jhingan Gum A Promising Food Additive - **Mate Ch. Jamkhokai**, and Thombare Nandkishore  *Process & Product Development Division, ICAR –Indian Institute of Natural Resins and Gums, Ranchi 834010* |
| OP-38 | Cross-Linked Guar Gum Hydrogels For Environmental Remediation - **Thombare Nandkishore**, Jha Usha, Mishra Sumit and Siddiqui MZ,  *Process & Product Development Division, ICAR –Indian Institute of Natural Resins and Gums, Ranchi 834010.* |
| OP-39 | Application of Lac Resin-Based Coating Formulations for Extending Post Harvest Life of Ginger - **Sarkar, P. C** & Ansari, M. F  *Process &Product Development Division, ICAR –Indian Institute of Natural Resins and Gums, Ranchi 834010.* |
| OP-40 | Gas holdup in Tapered Bubble Columns using water: Effect of columns diameter with same taper angle and liquid height - **Sumit Kumar Jana** and Sudip Kumar Das  *Department of Chemical Engineering and Technology, Birla Institute of Technology, Mesra, Ranchi, Jharkhand.* |
| OP- 41 | Computational Study of bed pressure drop in Trickle bed for non-Newtonian liquids - **Omar Rahul** and Jena Hara Mohan  *Department of Chemical Engineering, National Institute of Technology, Rourkela-769008.* |
| OP-42 | Elutriation in non-Newtonian pseudoplastic liquid fluidization - **Samit Bikas Maiti** and Sudip Kumar Das  *Department of Chemical Engineering, University of Calcutta, 92, A. P. C. Road,Kolkata – 700 009, India.* |
| OP-43 | Numerical Simulation of Solidification Process In Spherical Aluminium Cavity - **Ghosh Debasree,** Guha Chandan,  *Department of Chemical Engineering and Technology, Birla Institute of Technology, Mesra, Ranchi, Jharkhand.* |
| OP-44 | Enhanced Effect of Grafted Polymers on Improvement in Viscosity and Filtration Loss Properties of Drilling Fluid – **Rani Nisha**, RaipuriaVivek, Sharma, V. P., Naiya T.K.  *Department of Petroleum Engineering, Indian School of Mines, Dhanbad, Jharkhand-500082.* |
| OP- 45 | Synthesis of Poly(O-Phenylenediamine) Nano-Fiber with Novel Structure and Properties, **Samanta Siddhartha**, Roy Poulomi And Kar pradip  *Department of Chemistry Birla Institute of Technology, Mesra, Ranchi-835215, Jharkhand, India.* |
| OP-46 | Interpenetrating Network Formation of PVC In Modifying Its Properties, **Bhattacharyya Rupa,**  *Department of Chemistry, Narula Institute of Technology, 81, Nilgunj Road, Agarpara, Kolkata-700109 West Bengal, India.* |
| OP-47 | Synthesis And Characterisation of Copolymers having Hyperbranched Architecture and its Potential Application as Binder for Adhesives, **Sengupta Srijoni**; Das Tamalika; Ghorai Uttam Kumar And Bandyopadhyay Abhijit  *Department of Industrial Chemistry and Applied Chemistry, Swami Vivekananda Research Center, Ramakrishna Mission Vidyamandira, Belur math, Howrah-711202* |
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| OP- 49 | Thermoreversible Gel Assisted Polyaniline: Synthesis and Characterization, **Adhikari, Arpita**;A Dutta, Koushik;A Chakraborty, Mukut;B, Chattopadhyay, Dipankar;A  Department of Polymer Sc. & Tech., University of Calcutta, 92, A.P.C. Road, Kolkata 700009, India, Department of Chemistry, West Bengal University, Barasat, 700126, India. |
| OP- 50 | Dehydration of glycerol to acetol by silica supported phosphate catalyst  **S. Basu**, A.K.Sen ,M .Mukherjee, D, Pandey  *Department of Chemical Engineering and Technology, Birla Institute of Technology, Mesra, Ranchi, Jharkhand.* |
| OP-51 | Studyonionic Conductivity of Nano Doped Salt Composites of Polyethylene Oxide, **Karan, Susmita**  *Department of Basic Science and Humanities, Narula Institute of Technology.* |
| OP-52 | Inorganic-Organic Nanocomposite Membranes for Polymer Electrolyte Membrane Fuel Cell, **Ghosh Priyanka**, Ganguly Saibal, Banerjee Dipali, Kargupta Kajari  *Chemical Engineering Department, Jadavpur University, Kolkata, India.* |
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| OP-54 | Synthesis, Characterization, Photoluminescence Property Study and Application of Thiophene Based Conducting Polymers for Polymeric Light Emitting, **Sardar Soumen**, Koley Riya1,Ghoraiuttam. K2 And Bandyopadhyay Abhijit  *Department of Polymer Science and Technology, University of Calcutta* |
| OP-55 | Estimation of Kinetic Parameters and Optimal Synthesis of Sal Oil Methyl Ester Biodiesel at Elevated Temperature, **Sultana, Nazmun**,;Guria,Chandan; And Vinod K Saxena  *Department of Chemical Engineering, and Department of Petroleum Engineering, Indian School of Mines, Dhanbad 826 004, India* |
| OP-56 | Activity Comparison of Supported H3PW12O40 (HPA), An Efficient and Reusable Catalyst for Etherification of Glycerol with T-Butanol, **Magar, Subhash**; Mohanraj, G. T. ; Rode, Chandrashaker; Jana, Sumit Kumar  *Chemical Engg.Dept. , Pravara Engg. College, Loni, Maharastra* |
| OP-57 | Novel biopolyester-multiwalled carbon nanotubes nanocomposite films for chemical vapor sensing, **G. T. Mohanraj,**  *Dept. of Chemical Engineering & Technology, Birla Institute of Technology Mesra, Ranchi, India* |
| OP-58 | High Dielectric Metal Doped Barium Titanate-Polyimide Nanocomposites  **Dr. Barnali Dasgupta Ghosh**  *Department of Chemistry, B.I.T. Mesra Ranchi, Jharkhand – 835215, India* |