

Accepted list of abstract submitted to ICRE 2021, NIT Raipur

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Paper Number	Paper title	Authors	Institution	STATUS
1	Synthesis of Titanium doped Hydroxyapatite (WMPHAP:Ti) from waste marble powder for the removal of biorefractory pollutant	Arshia Khan, Shirin Khan ² , RohidasGangaram Bhoi ¹ , Virendra Kumar Saharan, Suja George	Malaviya National Institute of Technology Jaipur ² Govt. Kamla Nehru MahilaMahavidyalaya, Damoh	ACCEPTED
2	Ionic Liquids as green solvents in process industry for reaction and separation: emphasizing on recovery of carboxylic acids	Fiona Mary Antony, Kailas L Wasewar	Visvesvaraya National Institute of Technology (VNIT), Nagpur, India	ACCEPTED
3	Reactive extraction coupled with regeneration: Concept of Bio refinery for in situ recovery of protocatechuic acid	Fiona Mary Antony, Kailas L Wasewar	Visvesvaraya National Institute of Technology (VNIT), Nagpur, India	ACCEPTED
4	Corrosion inhibition behavior of neem leaves extract for mild steel in alkaline medium	PayalBaitule and R. Manivannan	National Institute of Technology Raipur	ACCEPTED
5	Comparative study on the thermal property and haze enhancement using boron nitride nanosheets and MXene nanoparticles in a polycarbonate matrix	Tushar Khapne, Parag Thakur, Shriram Sonawane	Visvesvaraya National Institute of Technology, INDIA	ACCEPTED

6	Unification Electrocoagulation-Adsorption Treatment for Removal of COD and Surfactant from Automobile Wastewater	Chandrakant Thakur	NIT, Raipur	ACCEPTED
7	Continuous Electrochemical Reactor Flow Analysis for removal of COD, Color, TDS and TOC from Paper mill wastewater	Neha Pandey, AnupamBalaSoni, Chandrakant Thakur*	NIT, Raipur	ACCEPTED
8	The Influence of Fly Ash and Recycled Coarse Aggregates on the properties of Self Compacting Concrete	Anjali Singh, P.K. Mehta, Rakesh Kumar	National Institute of Technology Allahabad,	ACCEPTED
9	Flow characteristics of non-Newtonian fluids through packed beds	Malik Parveez	National Institute of Technology Srinagar	ACCEPTED
10	HYDROGEN GENERATION FROM ALUMINIUM AND WATER: AFFECTING PARAMETERS AND KINETIC STUDY	Sandeep Dharmadhikari,Ashish Jha,ArabindaDas,Amit Jain, Ghoshna Jyoti, Raghwendra Singh Thakur and SaurabhMeshram	Guru Ghasidasvishwavidyalaya (A Central University) Bilaspur,	ACCEPTED
12	Extraction of Uranium ions through supercritical CO ₂	Pradeep Kumar, TessyVincent, Ashok Khanna	Institute of Engineering and Technology Lucknow	ACCEPTED
13	Synthesis of Citric Acid Cross-linked Starch/PVA biodegradable film for food packaging applications	Nirlipta Mallick, A.B Soni,and Dharm Pal	National Institute of Technology, Raipur	ACCEPTED
16	A Short Review on Wastewater Treatment Using Microbial Fuel Cell	DivyaKosale, Chandrakant Thakur, V.K. Singh	NIT Raipur	ACCEPTED

17	Optimization and Statistical Analysis of Sono-Fenton Treated Industrial Wastewater using Response Surface Method	Vijay A. Juwar, Ajit P. Rathod	Visvesvaraya National Institute of Technology Nagpur	ACCEPTED
19	Alternative utilization of dairy waste in esterification process as a sustainable energy source	Amol A. Bhusaria, Bidyut Mazumdar, Ajit P. Rathod	National Institute of Technology, Raipur	ACCEPTED
20	Degradation of Trypan blue dye using neutralised red mud in circulating fluidized bed reactor and its kinetics study	Sakshi Manekar, Titikshya Mohapatra, Prabir Ghosh	NIT, Raipur	ACCEPTED
21	Reactive extraction of gallic acid with tri-n-octylamine in a biocompatible mixture of modifier and inert solvent: Equilibria, reaction stoichiometry and thermodynamics	Shitanshu Pandey, Dharam Pal, Sushil Kumar	Motilal Nehru National Institute of Technology (MNNIT) Allahabad	ACCEPTED
22	Mathematical Modeling and Simulation on Dehydrogenation of Ethylbenzene into Styrene in a Steady State Adiabatic Multiple Fixed Bed Reactor	Rahul Gupta, Nitish Sharma ¹ , Mayank Sharma	National Institute of Technology, Hamirpur	ACCEPTED
23				
26	Comparative Study of Catalytic Conversion of Glycerol, a by-product of transesterification, to cyclic hydrocarbons using MCM-22, ZSM-5 and Alumina	Sandeep Kumar, Dinesh Kumar, Neeru Anand, Vinay Shah	GGs IP University, Delhi	ACCEPTED
27	Optimization and Experimental Design by Response Surface Method for Reactive Extraction of Glutaric Acid	Pranay Mohadikar, Anuj Kumar, Fiona Mary Anthony, K. L.	Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon	ACCEPTED

		Wasewar,Asawari Ninawe, Danish Beg		
28	Extraction kinetics for the recovery of flavonoids from Cocciniaindicafruits using microwave-ultrasound-UV reactor	Alok Sharma, BidyutMazumdar, Amit Keshav	National Institute of Technology Raipur	ACCEPTED
29	Simulation of Variable Catalyst Holdup Integrated Kinetic Model Applied in Industrial Fluid Catalytic Cracking Risers and Regenerators	Harish Kumar K.S, [†] KannanAravamudan	Indian Institute of Technology Madras	ACCEPTED
30	Hydrogen peroxide assisted electrocoagulation treatment of rice gain based biodigester effluent: mechanism, performance and cost analysis	SavitaDubey, Amitajoshi, RashmiTrivedi, Parmesh Kumar Chaudhari, DharmPal Abhinesh Kumar Prajapati	IPSA, Institute of Engineering and Science, Indore	ACCEPTED
31	Semiconducting nanomaterials for photocatalytic desulfurization of liquid fuel under direct sunlight irradiation	Zakiullah Zaidi andLaxmiGayatriSorokhai bam	Visvesvaraya National Institute of Technology Nagpur	ACCEPTED
34	Removal of Iron and Sulphate during Acid Mine Drainage Treatment using Laboratory Successive Alkalinity Producing System and its Behavioural Relationship	M. D Patel,R. K. Jade, P. K. Dewangan, A. K. Dash, A. K. Kaushik	National Institute of Technology, Raipur	ACCEPTED
36	Reactors for Bacterial Lipopeptide Production	SayakMitra, RiddhimanDhar, Ramkrishna Sen	Indian Institute of Technology Kharagpur	ACCEPTED
37	Microbial Cell Factories for use in Bio-refineries	AishwaryaSajimonSayakM itra, Shampa Sen	Indian Institute of Technology Roorkee	ACCEPTED
39	Bioinspired Reactor Design for Heavy Metal Removal	Sourajit Das, Sayak Mitra, ShampaSen	Brainware University, Barasat, Kolkata	ACCEPTED

40	Enzyme Enhanced Oil Recovery: Applications and Challenges	Sujata Maiti Sayak Mitra, Shampa Sen	KalyaniMahavidyalaya, University of Kalyani	ACCEPTED
41	Transformation of Waste Plastic into a Resource	BapusahebTamb ,Sachin B Divate , SudhakarKada, Akash Sudhakar Wani	Pravara Rural Engineering College,Loni, Ahmednagar	ACCEPTED
42	Numerical investigation of performance of micro combustor with backward facing step and axially located obstruction	M Sameer Raza, AreesQamareen, Mubashshir A Ansari	ZHCET, AMU,	ACCEPTED
43	The Sonophotocatalytic Performance of an Aqueous Leaf Like Fe ₂ O ₃ Coated TiO ₂ Nanocomposite Based Hybrid Nanofluid Under Visible Light Via RSM	Manjakuppam Malika, Shriram S. Sonawane	Visvesvaraya National Institute of Technology, Nagpur	ACCEPTED
44	In-Situ DRIFTS Analysis of Vapor Phase Oxidation of Cyclohexane using Supported Fe-MnMixed Metal Oxides	Vijendra Kumar Yadav Taraknath Das	Indian Institute of Technology Roorkee	ACCEPTED
45	Aerobic Sequential Batch Reactor for Domestic Sewage Treatment: Parametric Optimization and Kinetics Studies	Neela Acharya , Vijay Kumar, Chandrakant Thakur, Parmesh Kumar Chaudhari	NIT Raipur	ACCEPTED
47	Simulation of Variable Catalyst Holdup Integrated Kinetic Model Applied in Industrial Fluid Catalytic Cracking Risers and Regenerators	Harish Kumar K.S, [†] KannanAravamudan	Indian Institute of Technology Madras	ACCEPTED
48	A Conceptual Design Algorithm for Hybrid Reactive	Antarim Dutta,	Motilal Nehru National Institute of	ACCEPTED

	Distillation Column involving Equilibrium Multi-Reaction Schemes	Deepshikha Singh, M Siraj Alam, Shabih UI Hasan	Technology Allahabad	
49	Esterification of acrylic acid using Microwave irradiation	Nishant Joshi, Amit Keshav, A.K. Poonia	National Institute of Technology Raipur	ACCEPTED
50	Residence Time Distribution (RTD) for Chemical Reactors	Kamakshi Gupta and Dr. Tej Pratap Singh	Bundelkhand Institute of Engineering and Technology, Jhansi	ACCEPTED
51	Catalytic Treatment (Thermolysis) of Coking waste water	Vibha Verma, Nishant Joshi, Abhinesh Prajapati, Parmesh Kumar Chaudhari ¹	National Institute of Technology Raipur	ACCEPTED
52	Effect of the Magnesia and Alumina in the modified-supported Perovskite-type Catalysts for the Dry Reforming of Methane	Pradeep Kumar Yadav, Taraknath Das	Indian Institute of Technology Roorkee	ACCEPTED
53	Fabrication and characterization of ceramic membrane support for industrial wastewater treatment	A. Dhivya, A. Keshav	National Institute of Technology Raipur, Raipur	ACCEPTED
54	Sustainable Adsorbent for Effective Removal of Malachite Green Dye from Wastewater: Kinetic, Thermodynamic and Equilibrium Study	Vijay A. Juwar, Ajit P. Rathod	Visvesvaraya National Institute of Technology, Nagpur	ACCEPTED
55	Degradation of pharmaceutical antibiotic (ciprofloxacin) by photo catalysis process using Sol-Gel based Titanium dioxide nanoparticles	Nitesh Parmar Jitendra Kumar Shrivastava ^b	IPS Academy, Institute of Engineering and Science Indore	ACCEPTED
56	Numerical modelling of the intensified post	Juturu Radheshyam,	National Institute of Technology	ACCEPTED

	combustion CO ₂ capture using rotating packed bed reactor (RPB)	PanneerselvamRanganathan	Calicut	
57	Esterification of acrylic acid using Microwave irradiation	Nishant Joshi, Amit Keshav, A.K. Poonia	National Institute of Technology Raipur	ACCEPTED
58	EFFECTIVE UTILIZATION OF DOMESTIC WASTEWATER TREATMENT: A REVIEW	NEHA MISHRA,SHILPISRIVASTAVA	KALINGA UNIVERSITY	ACCEPTED
59	Liquid-Liquid Dispersions in Intensified Jet-driven Mixing Column	Bongliba T Sangtam ¹ , Subrata Kumar Majumder ²	Indian Institute of Technology Guwahati	ACCEPTED
60	A Review on Nutritional and Chemical Composition of Edible flowers	Rubekaldrishi	IIT Guwahati	ACCEPTED
61	Activated Sludge Bio-Aeration Process to Treat Sugar Industry Effluent	ShreyasGondudey, Vandana Gupta, Prabir Ghosh and Pramesh Kumar Chaudhari	National Institute of Technology, Raipur	ACCEPTED
62	Synthesis Of Eco-friendly Super Absorbent Polymer by solution polymerization through NPK Fertilizers for land Cultivation application	SushmithaDevadasu, SrinathSuranani	National Institute of Technology, Warangal	ACCEPTED
63	Transformation of Waste Plastic into a Resource	BapusahebTambe ¹ ,Sachin B Divate ² , SudhakarKadam ³ , AkashSudhakar Wani ⁴	Pravara Rural Engineering College,Loni, Ahmednagar,Maharashtra	ACCEPTED
64	Value Addition Study on Coker Kero for Producing Alpha Olefin and Alkyl Benzene	DeependraTripathia, Raj K. Singhb, Udai P. Singha	Indian Institute of Technology Roorkee, Roorkee	ACCEPTED
65	Optimization of Catalytic Treatment (Thermolysis) of coking wastewater by Response Surface	VibhaVerma, Nishant Joshi, Parmesh Kumar	National Institute of Technology Raipur	ACCEPTED

	Methodology	Chaudhari		
66	Synthesis of TiO ₂ doped ZSM-5 nanocomposite for waste water treatment by using ultrasound method	Dipak Giram, Arijit Das	Visveshwarya national institute of technology, Nagpur	ACCEPTED
67	Electrochemical process to treat rice grain based distillery biodigester effluent using iron metal and salt	Abhinesh Kumar Prajapati, Deepak Sharma, ShamalSen, SavitaDubey, Parmesh Kumar Chaudhari	Institute of Engineering and Science, Indore	ACCEPTED
68	Acclimatization Studies for Degradation of Acid Red 3BN Dye and its Treatment in Moving Bed Biofilm Reactor	Vijay Kumar, AkhileshKhapre and Parmesh Kumar Chaudhari	National Institute of Technology, Raipur	ACCEPTED
69	Hydro-deoxygenation of glycerol into bio-olefins using LaM _{1-x} Cu _x O ₃ (M=Co, Cr, Fe) perovskites as heterogeneous catalyst	Jamna Prasad Gujar, YashJaiswal, RupaliJha, Bharat Modhera	Maulana Azad National Institute of Technology, Bhopal	ACCEPTED
71	Efficient removal of Cr (VI) using raw and phosphoric acid modified lagerstroemia speciosa fruit hull	Ahmad Nawaz, and Pradeep Kumar	Indian Institute of Technology (BHU), Varanasi	ACCEPTED
72	Cyclic voltammetry to study kinetics of BFS-CeO ₂ modified electrode	Arti Mourya, Sudip K. Sinha, BidyutMazumdar	NIT Raipur	ACCEPTED
77	Simulation of steam reforming in a thermally coupled reactor: A comparative study of methane	MusaddiqueMahfuz Ahmad, Pankaj Tiwari	Indian Institute of Technology Guwahati	ACCEPTED

	and methanol as reformer feed			
79	Conversion of plastic waste into gasoline range hydrocarbons using natural and synthetic zeolite catalyst	Subhashini, Dr.Tarak Mondal	IIT Ropar, Rupnagar	ACCEPTED
81	Fluorescence spectrophotometric determination of 6-thioguanine in biological sample	Vikas Kumar Verma, Kavita Tapadia, Tungabidya Maharana	National Institute of Technology, Raipur	ACCEPTED
82	Design and fabrication of a suitable microreactor for the preferential oxidation of carbon monoxide reaction	J. Kumar, G. Deo, D. Kunzru	IIT Roorkee	ACCEPTED
83	Performance Evaluation of MBBR System for Synchronous Removal of Phenol and Ammonia from Refinery Wastewater	Monalisa Satapathi, Biju Prava Sahariah, J. Anandkumar	NIT Raipur	ACCEPTED
84	Removal of fluoride from water by electrocoagulation using mild aluminium electrode	Neeraj Chandraker, Parmesh Kumar Chaudhari, Ghosna Jyoti, Raghwendra Singh Thakur	NIT Raipur	ACCEPTED
85	Recovery of lutein from marigold petals using surfactant based aqueous two phase system	Neha Maheshwari Ashwin Kannan	VNIT Nagpur	ACCEPTED
86	Conversion of plastic waste into gasoline range hydrocarbons using natural and synthetic zeolite catalyst.	Subhashini and Tarak Mondal	IIT Ropar	ACCEPTED
88	Utilization of Agro Industrial Waste as Potential	Vijay A. Juwar, Ajit P.	Visvesvaraya National Institute of	ACCEPTED

	Adsorbent for Wastewater Treatment: Kinetic, Thermodynamic and Equilibrium Study	Rathod	Technology, Nagpur	
89	Study and analysis of disinfection by product in drinking water supplied by nagarnigam water treatment plant near manubhentecri Bhopal	Sumitkumarsahu	MANIT Bhopal	ACCEPTED
90	No title	No authors	MANIT	ACCEPTED
91	Role of scattering processes in the lattic thermal conductivity of MdB2	Nitin P. Singh, Preetam Singh Gour and Sapan Mohan Saini	Jaipur National University, Jaipur	ACCEPTED
92	Equilibrium & kinetic studies of reactive extraction of trans-aconitic acid using sunflower oil with tri-n-octylamine	Rajesh Nimmakayala, Dharm Pal, Dhananjay Singh and Abhinesh Kumar Prajapati	National Institute of Technology Raipur	ACCEPTED
93	Kinetic modelling and optimization of fermentation process parameters for ethanol production from waste broken rice	PayelMondal, AnupKumarSadhukhan, Amit Ganguly, ParthapratimGupta	, National Institute of Technology, Durgapur	ACCEPTED
94	Synthesis and characterization of novel ceramic membrane for the removal of rhodamine b	HemantVaidhya, Raja Chathurappan, Dharm Pal and J. Anandkumar	National Institute of Technology Raipur	ACCEPTED
96	Synthesis and characterization of fau zeolite coated tubular ceramic membrane for ultrafiltration application	Raja Chathurappan, and J. Anandkumar	National Institute of Technology Raipur	ACCEPTED
97	Gas-liquid flow visualization in U-bend millimeter-	Deepak K MISHRA	Indian Institute of Technology	ACCEPTED

	size channel	Raghvendra GUPTA, Anugrah Singh	Guwahati, Guwahati	
98	Waste eggshell based CaO-Fly Ash Cenosphere composite as a sorbent for CO ₂ sequestration	ShraddhaWadatkar, Diwakar Z. Shende, Kailas L. Wasewar	Visvesvaraya National Institute of Technology Nagpur	ACCEPTED
99	Synthesis of NiO-coated Fly Ash Cenosphere based composite for enhanced adsorption of methylene blue	ShraddhaWadatkar, Diwakar Z. Shende, Kailas L. Wasewar	Visvesvaraya National Institute of Technology Nagpur	ACCEPTED
100	Adsorption of fluoride from aqueous solution using activated water hyacinth batch study	Nitesh singh, sapna s madan, anushika rani, sunny kumar, s. suresh	Manit Bhopal	ACCEPTED
101	Alkaline electro-hydrolysis pretreatment of rice straw for enhanced biogas production	Gopal P. Naik, Anil K. Poonia ,Parmesh K. Chaudhari	National Institute of Technology, Raipur	ACCEPTED
102	Oxidative Treatment of Sulphidic Spent Caustic Waste Stream	Merin Susanna James and Anurag Garg	IIT Mumbai	ACCEPTED
103	Reduction of acid 3BN in sequential batch reactor: Parameters and kinetics studies	Vijay Kumar, Vijendra Kumar, Chandrakant Thakur, Parmesh Kumar Chaudhari	National Institute of Technology , Raipur	ACCEPTED
104	The remediation of textile wastewater using solid Bauxite residue waste as a potential Fenton catalyst in the Fluidized-bed Fenton process.	Manisha , Titikshya Mohapatra , Prabir Ghosh	NIT Raipur	ACCEPTED