



TEQIP III Sponsored
INTERNATIONAL CONFERENCE
ON
CHEMICAL, BIO & ENVIRONMENTAL ENGINEERING
(CHEMBIOEN-2020)

February 13-14, 2020

Department of Chemical Engineering

Dr B R Ambedkar National Institute of Technology, Jalandhar-144011, India

Schedule of CHEMBIOEN-2020

Day 1: February 13, 2020 (Thursday)

Time	Event
09:30-10:30 am	Registration
10:30-11:30 am Inaugural Session at Video Conferencing Hall, IT Building	Welcome of Chief Guest and Guests of Honor Inauguration of Conference by Lighting of Lamp Welcome Address by Organizing Secretary Overview of Chemical Engineering Department by Head Address by Director Address by Guests of Honor Address by Chief Guest National Anthem Group Photograph
11:30-12:00 Noon	High Tea
12:00-01:00 pm	Plenary Lectures at Video Conferencing Hall, IT Building
12:00-12:15 pm	Plenary talk by Prof. J P Badyal, Durham University, UK
12:15-12:30 pm	Plenary talk by Prof. Ramesh Subramanian, Laurentian University, Canada
12:30-12:45 pm	Plenary talk by Prof. Pankaj Attri, Kyushu University, Japan
12:45-01:00 pm	Plenary talk by Prof. Shishir Sinha, IIT Roorkee
01:00-02:00 pm	Lunch at New SAC Building
02:00 -03:00 pm	SESSION-1 Parallel Technical Sessions and Display of Posters Parallel Technical Session-I, Video Conferencing Hall, IT Building Parallel Technical Session-II, NKN, 2 nd Floor, IT Building Parallel Technical Session-III, Conference Room, 1 st Floor, IT Building Display of Posters for Day-I, G-Floor, IT Building
03:00-04:30 pm	SESSION-2 Invited Talks and Parallel Technical Sessions Parallel Technical Session-IV, Video Conferencing Hall, IT Building Parallel Technical Session-V, NKN, 2 nd Floor, IT Building Parallel Technical Session-VI, Conference Room, 1 st Floor, IT Building

04:30-05:00 pm	Tea Break
05:00-06:00 pm	SESSION-3 Parallel Technical Sessions and Display of Posters
	Parallel Technical Session-VII, Video Conferencing Hall, IT Building Parallel Technical Session- VIII, NKN, 2 nd Floor, IT Building Parallel Technical Session- IX, Conference Room, 1 st Floor, IT Building Display of Posters for Day-I, G-Floor, IT Building
06:00- 07:30 pm	SESSION-4 Invited Talks and Parallel Technical Sessions
	Parallel Technical Session-X, Video Conferencing Hall, IT Building Parallel Technical Session-XI, NKN, 2 nd Floor, IT Building Parallel Technical Session-XII Conference Room, 1 st Floor, IT Building
7:30 pm	Conference Dinner

Day 2: February 14, 2020 (Friday)

Time	Event
09:00 - 09:30am	Display of Posters for Day-II, G-Floor, IT Building
09:30-10:00 am	Plenary Lectures at Video Conferencing Hall, IT Building
09:30-09:45 am	Plenary talk by Prof. Apurba Dey, NIT Durgapur
09:45-10:00 am	Plenary talk by Prof. SK Kansal, Panjab University Chandigarh
10:00-11:00 am	SESSION-5 Parallel Technical Sessions and Display of Posters
	Parallel Technical Session- XIII, Video Conferencing Hall, IT Building Parallel Technical Session- XIV, NKN, 2 nd Floor, IT Building Parallel Technical Session-XV, Conference Room, 1 st Floor, IT Building
11:00-11:30 am	Tea Break
11.30 -01.00pm	SESSION-6 Invited Talks and Parallel Technical Sessions and Display of Posters
	Parallel Technical Session- XVI Video Conferencing Hall, IT Building Parallel Technical Session- XVII, NKN, 2 nd Floor, IT Building Parallel Technical Session-XVIII, Conference Room, 1 st Floor, IT Building
01:00-02.00pm	Lunch at New SAC Building

Conference Ends



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TECHNICAL PROGRAM

NOTE:

OVERALL DURATION OF ORAL PRESENTATION IS 07 MINUTES ONLY.

THE DIMENSIONS OF POSTER SHOULD BE 4 FEET × 3 FEET

ORAL PRESENTATIONS

Parallel Technical Session I		
February 13, 2020; Time: 02:00-03:00 pm; Venue: Video Conferencing Hall, IT Building		
Paper ID	Title of Paper	Authors
P105	An investigative study on the ecological risk associated with the emission of industrial effluents containing anionic contaminants in chitrapuzha river, Kerala	Nishan Ahammed V, Lity Alen Varghese
P108	Computational study of some diselenide-based glutathione peroxidase mimics: Effect of E...N (E = Se/Te) intramolecular interaction and E-E bond strength	Raghu Nath Behera, Nisheal Michael Kaley
P125	Bioremediation of Iron from fly ash using a novel isolated Acidithiobacillus Ferrooxidans strain and evaluation of catalytic role of leached iron in the Fenton's oxidation of Cephalexin	Bhaskar S, Basavaraju Manu, M Y Sreenivasa
P127	Catalytic ozonation of reactive black 5 in aqueous solution over a la-co-o catalyst	Nikita P. Chokshi, Darshan Patel, Rahul Atkotiya, J. P. Ruparelia
P155	Evaluation of alpha amylase inhibition activity, antioxidant capacities and caffeine content of commercially available ready to drink green tea sample in collected from Nepal	Bishnu Prasad Pandey, Bibek Byanju, Rupak Thapa
P107	<i>In-vivo</i> pharmacological assay, antioxidant activity and metal ions analysis of Thymus linearis Benth collected from Nepal	Bishnu Prasad Pandey, Bibek Byanju

Parallel Technical Session-II		
February 13, 2020; Time: 02:00-03:00 pm; Venue: NKN, 2nd Floor, IT Building		
Paper ID	Title of Paper	Authors
A537	Removal of dyes using egg shell food waste	Devyanshu Sachdev, Bhavya Trehan
A543	Effect of rice husk biochar and commercial microorganisms on the yield of okra	M. Ramananda Bhat, Neha Nidhi and S. Gitanjali
A561	Production of biodiesel from microalgae via nanocatalytic transesterification process	Vaishali Mittal, U.K Ghosh
A583	Natural colorants: prodigiosin and its solubility in different solvents	Tania Paul, Tarunkanti Bandyopadhyay, Abhijit Mondal, Biswanath Bhunia
A597	Effect of %duty cycle on the dispersed phase holdup in a pulsed disc and doughnut extraction column	Vivekananda Sinha, Tessy Vincent
A577	Axial drop size distribution in a pulsed disc and doughnut extraction column	Vivekananda Sinha, Tessy Vincent

Parallel Technical Session-III		
February 13, 2020; Time: 02:00-03:00 pm; Venue: Conference Room, 1st Floor, IT Building		
Paper ID	Title of Paper	Authors
A634	Numerical investigation of effect of thermo-physical properties of pcm on the charging of pcm in double pipe cavity	Shloka Dhavle, Preethi Sridhar, Siddha Sharma, Prasoon Kumar Debasree Ghosh
A507	<i>Methane enrichment in natural gas: a process simulation study using aspen plus</i>	Ayush Pandey, Pradip Chowdhury
A517	A monotriazolyl-linked sugar-based sensor for selective fluorometric detection of Au^{3+} ions in aqueous medium	Samiul Islam Hazarika, Mini Loya, Ananta Kumar Atta
A527	Deduction of pollutants (produced water) from petroleum drilling site with electrocoagulation and chemical coagulation process: restricted limits	Omprakash Sahu
A528	Investigation of vapor-liquid-equilibrium for an ethanol-butyl methyl ether system using aspen and matlab	Avdesh Singh Pundir, Kailash Singh, Girish Tyagi, Sunil Rajoriya, Varshika Singhal, Mayank Pandey
A530	Sulphate resistance of fly ash and m-sand mixed self compacting concrete	Deep Tripath, Rakesh Kumar, P. K. Mehta, Amrendra Singh

Parallel Technical Session IV		
February 13, 2020; Time: 03:00-04:30 pm; Venue: Video Conferencing Hall, IT Building		
Paper ID	Title of Paper	Authors
P156	Characterization and isotherm study of activated carbon production from mustard stalk by ZnCl_2 activation	Kalpana Patidar, Manish Vashishtha
P106	Synthesis, characterization and characteristics of waste-palmolein oil-based alkyd resins and their blend with epoxy resin	MdAbdus Samad, M. Moni Bora, ChayanikaDeka, Dilip Kumar Kakati
P154	Effect of Acid Treatment on ZSM-5 for Methanol to Olefins	A O Kedia, Vinay Shah, Neeru Anand, Dinesh Kumar
P126	An experimental study on some parameters for defluoridation using capacitive deionization with carbon electrodes	Rohit Kushwaha, Divakar Bhaskar, Sonam, Devendra Mohan
P129	1D study on microwave assisted warming of human blood with varied ceramic and composite supports	Sushma Kumari, Sujoy Kumar Samanta
P130	An investigation on thermodynamic properties of quartz and borosilicate glass in hydrofluoric acid (HF) medium	Sarath Menon, Arpita Shukla, S. Noyel Victoria, R. Manivannan

Parallel Technical Session-V		
February 13, 2020; Time: 03:00-04:30 pm; Venue: NKN, 2nd Floor, IT Building		
Paper ID	Title of Paper	Authors
A532	Selection of a company for jobs-offered using topsis	Avdesh Singh Pundir, Kailash Singh, Girish Tyagi, Sunil Rajoriya, Moh. Rohaan, Garvit Gupta
A541	Synthesis and characterization of gold nanoparticles (aunps) using novel bacterial strain isolated from beverage industry waste	Mohit Kumar, D. Vasanth
A546	Parametric studies for synthesis of pet track etched membrane	Prince Bagthariya, Bipin Chandra Nailwal, Jayesh prakash Nair, Pudiyeedath Surendran, Ramesh Chandra Bindal, Soumitra Kar
A557	Enzymatic conversion of lignocellulosic biomass: optimization kinetics and inhibition study	Shivanand S Chavan, Ashwin Gaikwad
A562	Erythromycin extraction using sugaring out	Sharayu Moharkar, Pradip B. Dhamole
A565	Kinetic study of catalytic pyrolysis of lignin	Subhrajeet Dash, Dr. Anjireddy Bhavanam, Dr. Poonam Gera

Parallel Technical Session- VI		
February 13, 2020; Time: 03:00-04:30 pm; Venue: Conference Room, 1 st Floor, IT Building		
Paper ID	Title of Paper	Authors
A581	Isolation of essential oil from palmarosa using different extraction techniques: comparison and waste valorization	Miral R. Thakker, Jigisha K. Parikh, Meghal A. Desai
A582	Creeping flow a bingham plastic fluid past a rectangular cylinder	Ankita Sharma, Anurag Kumar Tiwari, Deepak Sahu
A587	In vitro digestibility of whey protein recovered from dairy waste	Shubhangi Raut, Shailesh Agrawal
A621	Comparative study on leachate treatment by low cost adsorbents	Akanksha Srivastava, Potsangbam Albino Kumar
A576	In silico docking and dynamics of flavonoid 'diplocone' as a potential natural inhibitor of acetylcholinesterase	Aakansha chaudhary
A611	Extraction of lutein from marigold petals using surfactant based atps	Neha Maheshwari, Ashwin Kannan

Parallel Technical Session VII		
February 13, 2020; Time: 05:00-06:00 pm; Venue: Video Conferencing Hall, IT Building		
Paper ID	Title of Paper	Authors
P136	Pilot-scale soda pulping of wheat straw using continuous pulp digester	Meenakshi Sheorana, Navjot Kaurb, Avinash Chandraa, Arvind Kumar Gautamc, Raj Kumar Aryad
P122	Optimization of methylene blue removal by mixed bacterial culture isolated from dye contaminated site	Ravi Kumar Sonwani, Ganesh Swain, Ram Saran Singh, Birendra Nath Rai
P139	Effect of nanoparticle mixed ratio on stability and thermo-physical properties of Cuo-Zno /water-based hybrid nanofluid	Manjakuppam Malika, Shriram S. Sonawane
P144	Strategies for improved production of prodigiosin by serratiamerces	Tania Paul, Tarun Kanti Bandyopadhyay, Abhijit Mondal, BiswanathBhunia
P101	Biodegradation of rice straw using thermophilic consortium for methane production by biochemical digestion	Vipan Kumar Sohpal
P109	Growth of biofuel potent chlorella sorokiniana NCIM 5561 with cow urine	Dipika Rajendra Kanchan , Anil Kumar Poonia

Parallel Technical Session- VIII		
February 13, 2020; Time: 05:00-06:00 pm; Venue: NKN, 2 rd Floor, IT Building		
Paper ID	Title of Paper	Authors
A555	Hybrid solar power and hot water system utilizing heat exchange fluid	Sudhansu Sekhar Das, Pramod Kumar, Sarbjot Singh Sandhu
A579	Life cycle assessment of municipal solid waste management strategies: review	Penaganti Praveen, Surinder Deswal
A589	The ionic liquid-mediated catalytic conversion of lignocellulosic biomass into fuel products	Pratik Patil, Ashwin Gaikwad
A620	Review on fireworks induced particle pollution	Urja Singh, Dr. Surinder Deswal
A637	Long term thermal response of multi-barrier system for underground radioactive waste disposal facility	Pranav Dilip Rao, Shivani Ashok Wangwad
A642	Study of <i>in vitro</i> hematotoxicity for derived benzoic acid by cfu-e, bfu-e method	Ravish Singh Rajput, Sanjay Kumar Singh

Parallel Technical Session- IX February 13, 2020; Time: 05:00-06:00 pm; Venue: Conference Room, 1st Floor, IT Building		
Paper ID	Title of Paper	Authors
A569	Self compacting concrete incorporating binary mineral admixtures	Amrendra Singh, Rakesh Kumar, P. K. Mehta, Deep Tripathi
A595	Review on combustion and performance analysis of various ci engines using pilot injection	Utkarsh Raghav, Sarbjot Singh Sandhu
A596	Review on zinc oxide as doped photo catalyst in waste water technology	Kirandeep Kaur, Renu Gupta
A604	<i>In silico</i> investigation of a novel carvacrol conjugate targeted against lung carcinoma	Anu Bansal, Neeta Raj Sharma
A521	Multicomponent synthesis of trisubstitued methane derivatives and its antioxidative activities	Monika Verma, Renu Sharma, Ruchi Bharti
A509	Nanocomposite of palmitic acid vesicles for toxin absorption	Devasish Chowdhury, Jayanta Sarmah Boruah

Parallel Technical Session X February 13, 2020; Time: 6:00-7:30 pm; Venue: Video Conferencing Hall, IT Building		
Paper ID	Title of Paper	Authors
P115	Experimental and kinetic study on the treatment of synthetic and real pharmaceutical wastewater by electrocoagulation	Karthick S, Sajal wankhede, Vishnu Prasad, Palani R, Haribabu K
P133	Comparative analysis of rosemary oil extraction and preparation of nanoemulsion using ultrasonic cavitation	Chandu S. Madankar, Pragya C. Sahare, Pawan D. Meshram
P142	Adsorption of Cd ²⁺ from mono-metal solution by pine biochar: Equilibrium and kinetic studies	S. S. Bhagwat, C. S. Madankar, R. G. Puri, R. S. Sirsam, P. D. Meshram
P145	Photocatalytic degradation of methyl orange using doped ZnO nanocatalyst	D. K. Bhole, R. G. Puri, P. D. Meshram, R. S. Sirsam
P152	Parametric study of esterification of high free fatty acid rice bran oil using Aluminum doped sulfated zirconia	Rajiv Arora, Amrit Pal Toor, Ravinder Kumar Wanchoo
P124	Extraction of polyphenolic compound gossypol from defatted cottonseed using Butanol-ethanol-water mixed solvent	Surinder Singh, S. K. Sharma, S. K. Kansal
P140	Effects of different fuel on development of fire inside the compartment	Deepak Sahu, Shorab Jain, Akhilesh Gupta, Surendra Kumar

Parallel Technical Session- XI February 13, 2020; Time: 06:00-07:30 pm; Venue: NKN, 2rd Floor, IT Building		
Paper ID	Title of Paper	Authors
A645	Study on sludge blanket development in uasb for leachate treatment	Ankit Dubey, Potsangbam Albino Kumar
A568	Degradation of polyvinyl chloride (PVC) by microorganism: a review	Pankaj Kumar Shrimal, Sangeeta Garg, Aanchal Mittal
A570	Utilization of plastic waste in construction of paver block	Sahil Rana, Tmana Mahajan
A531	Experimental and theoretical investigation of txy data for the methanol-water system at ambient pressure	Avdesh Singh Pundir, Kailash Singh, Girish Tyagi, Sunil Rajoriya, Varshika Singhal, Mayank Pandey
A626	Computational drug design using flavonoids	Nigam Kumar, Shilpa, Sumer Singh Meena
A547	Reaction modeling of CO ₂ in a liquid column of NaOH using method of lines	Avdesh Singh Pundir, Kailash Singh, Girish Tyagi, Sunil Rajoriya, Ajay Kumar Jain, Mayank Aggarwal, Abhishek Malik

Parallel Technical Session- XII		
February 13, 2020; Time: 06:00-07:30 pm; Conference Room, 1 st Floor, IT Building		
Paper ID	Title of Paper	Authors
A572	Evaluation of zeta potential and protein solubility of raw muscle and protein isolates of <i>Cyprinus carpio</i> after different duration of frozen storage.	Kirpal Singh, Arvinder Kaur
A584	Photo catalytic degradation of synthetic dye using Cadmium based core-shell semiconductor nanoparticles	Alisha Meshram, Sandeep Singh, Amit Dhruv Saran, Sangeeta Garg, Poonam Gera
A585	Size Controllable method for synthesis of core-shell semiconductor nanoparticles	Sandeep Singh, Amit Dhruv Saran, Sangeeta Garg
A610	Effect of Chemicals on Permeability of Soil	Srajan Rastogi, Dr. V.K. Arora
A628	Anti-thixotrophy properties of CMC solutions	Aman Pathania, D. Giribabu, Ajay Bansal
A606	Screening of soil bacterial isolates for insecticidal potential against <i>Spodoptera litura</i> (Fabricius)	Sunaina Sarkhandia, Sarita Devi, Meena Devi, Sanhedeep Kaur
A652	Effect of stacking on loose shorts of cigarette	Ankit Nayan
A655	Optimization of PAC-Flocculent Combinations for the Precipitation of Trace Metals from Plating Wastewater	Neelam Sodhi, Vijay Sodhi
A656	Visual analysis of leaves to check air pollutants through deep learning	Arpit Mathur, Ankit Nayan

Parallel Technical Session XIII		
February 14, 2020; Time: 10:00-11:00 am; Venue: Video Conferencing Hall, IT Building		
Paper ID	Title of Paper	Authors
P158	Treatment of greywater using consortium of micrococcus luteus , rhodococcusequi and aspergillusniger	Nikita Rajpal, Neetu Divyaa, Shalini Sharmab, K. J. Balasubramanib, Jatinder Kumar Ratana
P132	UV-C/NaOH based degradation of ciprofloxacin antibiotic in aqueous medium: A negative emission water treatment technology	Priyanshu Verma, Sujoy Kumar Samanta
P146	Anaerobic digestion of rice straw using paper mill sludge in sulfate containing environment	Ranjeeta Bhande , Pranab Kumar Ghosh
P102	Successive alkalinity producing system column study for alkalinity generation capacity with respect to influent amd quality	M. D Patel
P138	Thermodynamic equilibrium analysis on oxidative dehydrogenation of propane using CO ₂ : finding a suitable reactant ratio for propylene formation	Gyanesh Kumar, Aishanee Pattnaik, Saksham Sehgal, Koustuv Ray, Dharmendra Pandey

Parallel Technical Session- XIV		
February 14, 2020; Time: 10:00-11:00 am; Venue: NKN, 2 rd Floor, IT Building		
Paper ID	Title of Paper	Authors
A535	Study on fluctuating noise levels with respect to traffic density in surat city, india	Manoj M. Yadav, Dipeshkumar R. Sonaviya, Bhaven N. Tandel
A545	Enhancement of drying rate of polyurethane coatings using dibutyltin dilaurate (DBTDL) for commercial applications	Amitendra Singh, D. Giribabu , Jaspreet Kaur, Jatinder Kumar Ratan
A560	Rheology of fly and bottom ash slurry at higher concentration	Satish Kumar, Varinder Singh, Gurmeet Singh, Manikanwar Singh, Satish Chandra Ragit, Kaushal Kumar
A513	Separation of selenium from contaminated groundwater by polyamide nanofiltration membrane under optimized physico-chemical conditions	Meenakshi Malhotra, Parimal Pal
A550	Spectroscopic Investigation of nanocrystalline Gd ₂ O ₃ S:Er for low dose X-Ray imaging applications	Dinesh Sivalingam, T Prakash, G DevanandVenkatasubbu

Parallel Technical Session- XV		
February 14, 2020; Time: 10:00-11:00 am; Conference Room, 1st Floor, IT Building		
Paper ID	Title of Paper	Authors
A540	Mechanical properties of sustainable concrete using binary pozzolanic material	Tripti Sonker, Rakesh Kumar, Anupam Rawat
A558	Treatment of greywater by free water surface constructed wetland with water hyacinth plant in batch mode operation- a lab scale study	Anudeep Nema, Rajnikant Prasad, K. D. Yadav, R. A. Christian
A564	Effect of Mn loading and preparation method on catalytic activity of MnO _x /Al ₂ O ₃ for CO oxidation.	Gaurav Rattan
A566	Role of eichhornia crassipes in treatment of greywater in continuous process	Rajnikant Prasad ,Anudeep Nema, Kunwar D Yadav
A598	The impact of microorganism for remediation of toxic heavy metals	Bashir A.A, S.N Halliru, I.I Abdullahi
A640	Optimum Dose of Fly Ash in Self Compacting Concrete	Anjali Singh, P.K.Mehta, Rakesh Kumar, Abhishek Rajput

Parallel Technical Session XVI		
February 14, 2020; Time: 11.30-01:00 pm; Venue: Video Conferencing Hall, IT Building		
Paper ID	Title of Paper	Authors
P117	Biodegradation and kinetic analysis of phenol using Low-density polyethylene immobilized <i>Bacillus flexus</i> GS1 IIT (BHU) in a packed bed bioreactor	Ganesh Swain, R.K. Sonwani, Pankaj Nagar, B.S. Giri, R.P. Jaiswal, R.S. Singh, B.N. Rai
P110	Degradation of 4-Amino pyridine onto cuprous oxide nanoparticles synthesized from <i>tabernaemontana divaricate</i> extract	Pratibha, Sangeeta Garg, Jatinder Kumar Ratan
P160	Acute and sub-chronic toxicity of titanium dioxide nanoparticles synthesized by microwave-irradiation-assisted hybrid chemical approach	Shivendu Ranjan, Nandita Dasgupta, Chidambaram Ramalingam
P119	WEDM process parameter optimization for newly developed hybrid Al/(SiC + Gr + [Fe] _2 O _3)-MMC	Neel Kanth Grover, Amresh Kumar

Parallel Technical Session- XVII		
February 14, 2020; Time: 11:30-01:00 pm; Venue: NKN, 2rd Floor, IT Building		
Paper ID	Title of Paper	Authors
A588	Enhancement of drying rate of polyurethane coatings using dibutyltin dilaurate (DBTDL) for commercial applications	Amitendra Singh, D. Giribabu , Jaspreet Kaur , Jatinder Kumar Ratan
A641	Rheology of fly and bottom ash slurry at higher concentration	Satish Kumar, Varinder Singh, Gurmeet Singh, Manikanwar Singh, Satish Chandra Ragit, Kaushal Kumar
A518	A review of Indian current scenario of biodiesel Production and Adoption in vehicular diesel engines	Wagh Yogesh Kailas
A514	Groundwater arsenic remediation using a synthesized graphene oxide enabled membrane in a novel flat-sheet cross-flow membrane module	Madhubonti Pal, Mrinal Kanti Mandal, Tapan Kanti Paine, Parimal Pal
A511	Study of road traffic noise in tier-II city, India	Dipeshkumar R. Sonaviya, Manoj M. Yadav, Bhaven N. Tandel
A549	Utilization potential of metal sorbed biochars in soil amelioration and as solid fuel	Sandeep Kumar, Garima Kaushik, R. Ebhin Masto
A650	Surface charge doping induced carrier type reversal in sol-gel processed CdS/rGO layered nanohybrid films	Vanasundaram N, Praveen Kumar Sharma

Parallel Technical Session- XVIII February 14, 2020; Time: 11:30-01:00 pm; Venue: Conference Room, 1st Floor, IT Building		
Paper ID	Title of Paper	Authors
A613	Study of physical properties those superintend dietary fibre separation from citrus waste by sustainable enriching elutriator	Vishal V. Khanpit, Sonali P. Tajane, Sachin A. Mandavgane
A614	Effect of plant phenolic compound on the larvae of <i>spodoptera litura</i> (fabricius) and its parasitoid <i>bracon hebetor</i> (say)	Abhay Punia, Nalini Singh Chauhan, Evani Mahajan, Sumit Singh, Satwinder kaur Sohal
A615	Biofiltration: An innovative Air Pollution Control (APC) Technique to control Smog and Bioaerosol	Anee Mohanty, Aakriti Srivastava
A627	Rice Bran Protein extraction using hydrothermal cooking	Surinder Singh, Rajiv Arora
A653	Treatment of textile effluent in order to remove colour using refinery sludge based biochar	Amit kumar, N. K. Srivastava, Poonam Gera
A654	Development of a novel tripodal ligand derived from kojic acid and its coordination behaviour with trivalent metal ions: Experimental and DFT approach	Shailza Sharma, Minati Baral, B. K. Kanungo

POSTER PRESENTATIONS

Display of Poster February 13, 2020; Time: 02:00-03:00 pm; Venue: G-Floor, IT Building		
Paper ID	Title of Paper	Authors
A563	Screening of media components for the optimization of inulinase production from aspergillus flavus var. flavus strain atcc 16883	Deblina Das, Ramananda Bhat M, Raja Selvaraj
A591	Solvent-free green approach for the synthesis of 1,2,4-triazolo[1,5-a]pyrimidine derivatives via one-pot multi-component reaction	Mayank G. Sharma, Raturajsinh M. Vala, Hitendra M. Patel
A593	Rapid synthesis of 3,4-dihydropyrimidin-2(1h)-ones through the biginelli reaction with l-prolinium p-toluene sulphonate	Raturajsinh Vala, Mayank G. Sharma, Hitendra M. Patel
A607	Application of nanomaterials for waste water treatment	Raksha Gupta, Indu Chauhan
A625	Carbon quantum dots as turn-on fluorescent probes for elucidating specific cation effects	Shameema Rana, Jaibir Kherb
A506	Mixed convective characteristics in a square two-sided lid-driven cavity containing heated elliptical block	Pallav Sahu, Tulasi, Krunal M. Gangawane
A515	Piperine-piperazine analogues and their antibacterial activity	Naveen Kumar Kottakki, Karteek Rao Amperayani, Uma Devi and Parimi
A542	Nanofertilizers for the improvement of crop production and nutrient uptake: a review	Avimanu Sharma, Ritu Singh
A548	Arsenic decontamination through industrial by-products/wastes	Ashish Kumar, Ajay Oraon
A559	Removal of methylene blue using clay based ceramic material	Priyanka Sharma, Kushal Qanungo
A571	Teratogenicity and accumulation of triclosan in the early life stages of four food fish during the bioassay	Owias Iqbal Dar, Sunil Sharma, Kirpal Singh, Arvinder Kaur
A573	Effects of fuel location in a confined enclosure	Gaurav Vinayak, Pragya Sharma, Deepak Sahu
P153	Study of antimicrobial activities of green synthesized silver nanoparticles	R.Khandelwal, S.K.Arora, D.M.Phase, Arun Pareek, Ravikant

Display of Poster February 13, 2020; Time: 05:00-06:00 pm; Venue: G-Floor, IT Building		
Paper ID	Title of Paper	Authors
A619	Heat transfer characteristics of spherical food product in bulk with forced air cooling	Sajal Gupta and Ravi Kumar
A586	Synthesis and characterization of zinc doped cobalt ferrite graphene oxide nanocomposite for emi shielding	Ajay Kumar Chhantyal, Praveen Negi, Ashavani Kumar
A594	Study of piezoelectric material for energy harvesting	Sujeet Kumar pandey
A646	Novel NiFe ₂ O ₄ loaded sulfur functionalised g-C ₃ N ₄ nanorod: An efficient heterojunction photocatalyst for the organic pollutant degradation under visible light	Baskaran Palanivel, Mani Alagiri
A616	Development of correlator for diffuse correlation spectroscopy	Aradhana Mishra and R.P. Chauhan
A574	Effects of ventilation on fire behavior inside the confined enclosure	Arpit Jain, Banoth Abhsihek Nayak, Deepak Sahu
A575	Metal ion sorption application of sa-g-pmma	Jignesh H. Trivedi
A567	Effect of bisphenol a on lipid peroxidation and dna damage in freshwater fish channa punctatus.	Prince Sharma, Sukanya Mehra, Mandeep Singh and Pooja Chadha
A590	Evaluation of genotoxic potential of textile industry effluent using Channa punctatus model	Khushboo Sharma, Geetika Sharma, Pooja Chadha, Harvinder Singh Saini
A612	Catalytic pyrolysis of biomass over zeolites	Armaanot Singh, Harsh, Kanwalpreet Singh

Display of Poster February 14, 2020; Time: 09:00-09:30 am; Venue: G-Floor, IT Building		
Paper ID	Title of Paper	Authors
A639	In-silico analyses of the interactions between methyl chavicol (mc) and bovine serum albumin (bsa)	Anju Singh, D K Sinha, Kamal Kishor Thakur
A622	Process simulations studies of optimization for separation of mono-chlorobenzene from crude chlorobenzene using heat integrated distillation column	Meet Vaidya, Surendra S. Jampa, Abhishek K. Gupta, Ronak Soni
A523	Aqua-mediated organocatalyzed diversity oriented synthesis of n-fused polycyclic molecules via one pot four-component reaction	Ajay Thakur, Ruchi Bharti and Renu Sharma
A633	Instability of plane couette flow in shear thinning fluids over a gel	Rashi shankar S, Aman Pathania, D. Giribabu, R.K. Arya
A636	Design of potent PI3Ka Inhibitors using <i>In-Silico</i> studies	Rakesh, Amandeep, Sumer Singh Meena
A552	Studies on adsorption of emerging contaminants from wastewater	V Sree Kavya, Sampatrao D Manjare
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A648	Synthesis and characterization of silver nano-particles with carboxymethyl guar gum and optical sensing for glucose detection	Gaurav Yadav, Shiv Om Meena
A649	Synthesis and characterization of zno np & photo catalytic degradation of rb dye	Meenu, Shiv Om Meena
A651	Development of a catechol-thiosemicarbazone based polyfunctional ligand and studies of its complexes with biologically important metal ions: experimental and DFT approach	Pratidnya Shendge, Minati Baral
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A605	Pathogenicity of serratia marcescens against spodoptera litura (fab.)	Sarita Dev, Sunaina Sarkhandia, Meena Devi, Sanehdeep Kaur, Harvinder Singh Saini
A608	Bioactivity of nerolidol against third instar larvae of melon fruit fly, bactrocera cucurbitae (coq.) (diptera)	Diksha, Sumit Singh, Evani Mahajan, Satwinder Kaur Sohal
A609	Seasonal study of bioaerosol in outdoor environment at different sites in varanasi	Sushmita Rai, Yogesh Kumar Vishwakarma
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