

Publication at International Journal (Period: 1April 2019-31 March 2020)

Sl. No.	Authors	Paper Title	Journal Name	Year	Vol.	Issue No.	Starting Page	Ending Page
1	Manjari. G, Parthiban.A and Saran. S	Sustainable Utilization of Molasses Towards Green Synthesis of Silver Nanoparticles for Colorimetric Heavy Metal Sensing and Catalytic Applications.	Journal of Cluster Sciences	2019			1	9
2	Papu Kumar Naik, Sandip Paul and Tamal Banerjee	Insights from Experiments and Molecular Dynamics Simulations of Ammonium and Phosphonium based Deep Eutectic Solvents	Journal of Solution Chemistry	2019				
3	Chandani Rani Das, Tanmay Dutta and Manabendra Ray	Effect of ligand and bridge substitution on chiral recognition of 1-phenylethylammonium cation by an anionic binuclear Ni(II) complex	Inorganica Chimica Acta	2019	486	10/1/2018	367	376
4	Jyoti Kainthola, Mohd. Shariq, Ajay S. kalamdhad, V.V.Goud	Enhanced methane potential of rice straw with microwave assisted pretreatment and its kinetic analysis	Journal of Environmental Management	2019				
5	Jyoti Kainthola, Ajay S. kalamdhad, V.V.Goud	Optimization of methane production during anaerobic co-digestion of rice straw and hydrilla verticillata using response surface methodology	Fuel	2019				
6	Jyoti Kainthola, Ajay S. kalamdhad, V.V.Goud	Enhanced methane production from anaerobic co-digestion of rice straw and hydrilla verticillata and its kinetic analysis	Biomass and bioenergy	2019				
7	Swati Sharma, Poulami Datta , Birendra Kumar , Pankaj Tiwari, Lalit M. Pandey	Production of novel rhamnolipids via biodegradation of waste cooking oil using Pseudomonas aeruginosa MTCC7815	Biodegradation	2019				
8	Lalit Goswami, R. Vinoth Kumar, Kannan Pakshirajan, G. Pugazhenth	A novel integrated biodegradation-microfiltration system for sustainable wastewater treatment and energy recovery	Journal of Hazardous Materials	2019				
9	Himali Horo,Soumi Das, Bishnupada Mandal, Lal Mohan Kundu*	Development of a photoresponsive chitosan conjugated prodrug nano-carrier for controlled delivery of antitumor drug 5-fluorouracil	International Journal of Biological Macromolecules	2019				
10	Soumi Das, Himali Horo, Lal Mohan Kundu*	"Biopolymers and Peptide Based materials for Targeted Antitumor Drug Delivery: An Overview"	Novel Approaches in Drug designing and development	2019				
11	Jayakrishnan U, Deepmoni Deka, Gopal Das	"Enhancing the volatile fatty acid production from agro-industrial waste streams through sludge pretreatment"	Environment Science: Water Research and Technology	2019				
12	Tanushree Paul,Divya Baskaran, Kannan Pakshirajan, G. Pugazhenth	Continuous bioreactor with cell recycle using tubular ceramic membrane for simultaneous wastewater treatment and bio-oil production by oleaginous Rhodococcus opacus	Chemical Engineering Journal	2019	367		76	85
13	Jyoti Kainthola, Ajay S. kalamdhad, V.V.Goud, R. Goel	Fungal pretreatment and associated kinetics of rice straw hydrolysis to accelerate methane yield from anaerobic digestion	Bioresource Technology	2019				
14	Jyoti Kainthola, Mohd. Shariq, Ajay S. kalamdhad, V.V.Goud	Enhanced methane potential of rice straw with microwave assisted pretreatment and its kinetic analysis	Renewable energy	2019				

15	Isha Vishan, Biswanath Saha, Senthilkumar Sivaprakasam, Ajay S. Kalamdhad	Evaluation of Cd(II) biosorption in aqueous solution by using lyophilized biomass of novel bacterial strain <i>Bacillus badius</i> AK: Biosorption kinetics, thermodynamics and mechanism	Environmental Technology & Innovation	2019				
16	Visva Bharati Barua, Vidhi Rathore, Ajay S. Kalamdhad	Anaerobic co-digestion of water hyacinth and banana peels with and without thermal pretreatment	Renewable energy	2019				
17	Visva Bharati Barua, Vidhi Rathore, Ajay S. Kalamdhad	Comparative evaluation of anaerobic co-digestion of water hyacinth and cooked food waste with and without pretreatment	Bioresource Technology reports	2019				
18	Ashish A. Prabhu, Ravi Gadela, Biju Bharali, Narendra Naik Deshavath, V. Venkata Dasu	Development of high biomass and lipid yielding medium for newly isolated <i>Rhodotorula mucilaginosa</i>	Fuel	2019	239		874	885
19	Papu Kumar Naik, Sandip Paul and Tamal Banerjee	Physiochemical Properties and Molecular Dynamics Simulations of Phosphonium and Ammonium based Deep Eutectic Solvents	Journal of Solution Chemistry	2019	48		1046	1065
20	Papu Kumar Naik, Sandip Paul and Tamal Banerjee	Thermal Hydrogenation and Degradation of Quinoline from Reactive Force Field Simulations	Chemistry Select	2019	4	44	12996	13005
21	Saran. S and Mohanty. K	Facile green synthesis of magnetically separable Au-Pt@TiO ₂ nanocomposite for efficient catalytic reduction of organic pollutants and selective oxidation of glycerol.	Journal of Alloys and Compounds	2020	830		1	13
22	Sayanti Ghosh, Saswati Chakraborty,	Influence of inoculum variation on formation and stability of aerobic granules in oily wastewater treatment.	Journal of Environmental Management, 2019	2019	248	109239		
23	Arnab Ghosh and Gopal Das	Green synthesis of Sn(II)-BDC MOF: Preferential and efficient adsorption of anionic dyes.	Microporous and Mesoporous Mater.	2020	297	110039		
24	Arnab Ghosh and Gopal Das	Green synthesis of a novel water-stable Sn(II)-TMA Metal-Organic Framework: an efficient adsorbent for fluoride in aqueous medium in a wide pH range	New J. Chem.	2020	44		1354	1361
25	Paulomi Bose, Chandan Mukherjee and Animes K Golder	A NiII complex of the tetradentate salen ligand H ₂ LNH ₂ comprising an anchoring -NH ₂ group: Synthesis, characterization and electrocatalytic CO ₂ reduction to alcohols	Inorg. Chem. Front.	2019	6		1721	1728
26	Niharika Kashyap, Kuldeep Roy, and Vijayanand S. Moholkar.	"Mechanistic investigations in ultrasound-assisted biodegradation of phenanthrene."	Ultrasonics Sonochemistry	2020	62	104890		
27	Payal Mazumder, Meena Khwairakpam, Ajay Kalamdhad	"Bio-inherent attributes of water hyacinth procured from contaminated water body—effect of its compost on seed germination and radicle growth"	Journal of Environmental Management.	2020	109990			
28	Bhattacharjee D, Sufian A, Mahato S. K, Begum S, Banerjee K, De S, Srivastava H. K, Bhabak K. P	Trisulfides over disulfides: highly selective synthetic strategies, anti-proliferative activities and sustained H ₂ S release profiles.	Chem Commun	2019	55	90	13534	13537
29	Malviya N, Sonkar C, Ganguly R, Bhattacharjee D, Bhabak K. P, Mukhopadhyay S	Novel Approach to Generate Self-Deliverable Anticancer Ru(II) agent in the Self-Reacting Confined Gel Space.	ACS Appl Mater Interfaces.	2019	11	50	47606	47618
30	Deepti, A. Sinha, P. Biswas, S. Sarkar, U. Bora, M.K. Purkait	Utilization of LD slag from steel industry for the preparation of MF membrane	J. Environ. Manage	2020	259	110060		

31	Deepti, A. Sinha, P. Biswas, S. Sarkar, U. Bora, M.K. Purkait	Separation of chloride and sulphate ions from nanofiltration rejected wastewater of steel industry,	J. Water Process Eng	2020	33	101 108		
32	D. Haldar, P. Duarah, M. K. Purkait	MOFs for the treatment of arsenic, fluoride and iron contaminated drinking water: A review	Chemosphere,	2020	251	126 388		
33	D. Haldar, M. K. Purkait,	Lignocellulosic conversion into value-added products: A review	Process Biochemistry	2020	89		110	133
34	Swati Sharma, Rahul Verma, Lalit M. Pandey	Crude oil degradation and biosurfactant production abilities of isolated Agrobacterium fabrum SLAJ731	Biocatalysis and Agricultural Biotechnology	2019	21	10 13 22		

Conference/Workshop/Seminar/Symposia: (Period: 1 April 2019-31 March 2020)

Sl No.	Authors	Paper Title	Name of Conference/ Workshop/ Seminar/ Symposia/ Proceedings	Year	Starting page	Ending page
1.	Tanushree Paul, Kannan Pakshirajan and G. Pugazhenth	Eco-toxicity analysis of biologically treated refinery wastewater following cell recycle with tubular membrane	Nutraceuticals and Chronic Diseases (INCD-2019), IIT Guwahati, India	September 23-25, 2019		
2.	Poulami Datta, Pankaj Tiwari, Lalit M. Pandey	Understanding the Role of Biosurfactants in MEOR Applications	REFLUX 2019, Department of Chemical Engineering, IIT Guwahati	Sep, 2019		
3.	Papu Kumar Naik, Sandip Paul and Tamal Banerjee	Degradation kinetics of quinoline: A ReaxFF simulation	The first Department of Atomic Energy Computational Chemistry Symposium (DAE-CCS)	7-9 Nov 2019		
4.	Sayanti Ghosh and Saswati Chakraborty	Pollutant removal kinetics of aerobic granular reactors operated with different inoculums and hydraulic retention times during diesel wastewater treatment	9th IconSWM-CE, ISWMAW at KIIT, Bhubaneswar	27-29 Nov, 2019		
5.	Modalavalasa Suresh, Chandan Pradhan, Subashisa Dutta and Vinayak Kulkarni	Flow Structure in Meandering Channel with Vegetation	16th Annual meeting Asia Oceania Geosciences Society 2019- Singapore	2019		
6.	Modalavalasa Suresh, Chandan Pradhan, Amit Siddarth and Subashisa Dutta	Assessment of Temporal variation of vegetated Sand Bar Area in Brahmaputra River with Remote Sensing Input	Innovations in Geospatial Technology for sustainable development with special emphasis on NER- Shillong	2019		
7.	Saran. S and Mohanty. K	Bio-Inspired synthesis of magnetically separable AuPt@TiO ₂ nanocomposite and their catalytic reduction of organic pollutants”	6th International conference on Advanced nanomaterial and nanotechnology (ICAAN2019), IIT Guwahati, Assam, India.	Dec, 2019		
8.	Arnab Ghosh and Gopal Das	Waste to Material: Sn(II) MOF using Waste PET Bottles as Source of Organic Linker for Efficient Phosphate Remediation	Modern Trends In Inorganic Chemistry-XVIII (MTIC-XVIII), IIT Guwahati	11-13 Dec, 2019		
9.	Nivedhitha Swaminathan, Priyanka Dalal, Anurag Singh Rathore, Senthilkumar Sivaprakasam, Senthilmurugan Subbiah	Multi-Objective optimization for enhanced biomass production from E.coli fermentation	Bioprocessing India, CFTRI, Mysore, India	Dec 14-16, 2019		
10.	Arnab Ghosh and Gopal Das	Waste to Value Added Material: Sn(II) MOF using Waste PET Bottles as template for synthesis of SnO ₂ Nanoparticles for Potential Manganese Remediation	6th International Conference on Advanced Nanomaterials and Nanotechnology (ICANN2019), IIT Guwahati	18-21 Dec, 2019		
11.	Paulomi Bose, Animes K Golder and Chandan Mukherjee	Electrochemical reduction of CO ₂ on Cu and Cu ₂ O catalysts towards fuel generation CO ₂ sequestration using CuO nanoparticles	Twelfth International Symposium on Advances in Electrochemical Science and Technology	2019		

12.	Jinat Aktar, Manabendra Ray	Efficient Dye Removal Property of Iron(III) Complexes of Plant-Polyphenol and Tannic acid in an Insoluble Powder Form	Modern Trends In Inorganic Chemistry-XVIII (MTIC-XVIII), IIT Guwahati	11-13 Dec, 2019		
13.	Jinat Aktar, Manabendra Ray	Synthesis of Iron Polyphenol Metal complex and Its Application in Pollutant Removal	CHEMCON 2019, Department of Chemical Engineering, IIT Delhi and IChE	16 - 19 Dec, 2019		
14.	Paulomi Bose, Chandan Mukherjee and Animes K Golder	Ni salen metal complex and NiO catalyst for Electrocatalytic CO ₂ Reduction to fuels	CHEMCON 2019, Department of Chemical Engineering, IIT Delhi and IChE	16 - 19 Dec, 2019		
15.	Poulami Datta, Pankaj Tiwari, Lalit M. Pandey	Understanding the Role of Biosurfactants in MEOR Applications	CHEMCON 2019, Department of Chemical Engineering, IIT Delhi and IChE	16 -19 Dec, 2019		
16.	Juna Probha Devi, Chandan Mahanta & Anamika Barua	Monitoring seasonal snow dynamics in the Eastern Himalayas, India	Int. Conf., American Geophysical Union Fall Meeting 2019, dated, San Francisco, California, USA	9 -13 Dec, 2019		
17.	Sayanti Ghosh and Saswati Chakraborty	Aerobic Granulation of Micrococcus aloevarae Strain SG002 and its Application in Oil Remediation and Polyhydroxyalkanoates (PHA) Production	Engineering Sustainable Development Conference 2019, AIChE, Korea University, Seoul, South Korea	12-13 Dec, 2019		
18.	Arnab Ghosh and Gopal Das	Facile Synthesis of Sn(II) MOF using Waste PET Bottles as Source of Organic Linker: Trace Arsenate Remediation from Aqueous Medium	International Conference on Functional Materials (ICFM 2020), IIT Kharagpur	6-8 Jan, 2020		
19.	Niladri Shekhar Samanta and Mihir Kumar Purkait	Glucose permeation through pH responsive membrane	International Conference on Functional Materials (ICFM 2020), IIT Kharagpur	6-8 Jan, 2020		
20.	Juna Probha Devi, Chandan Mahanta & Anamika Barua	Inventory and Dynamics of High Altitude Lakes (1990–2018) using Remote Sensing data in Mago Basin in the Eastern Himalayas, India	Nat Conf. on Issues & Challenges in Water Treatment and Allied Research for Sustainable Environment, IIT Guwahati	23 -25 Jan 2020		
21.	Tanushree Paul, Kannan Pakshirajan and G. Pugazhenth	Valorization of Rhodococcus opacus biomass cultivated using refinery wastewater by hydrothermal liquefaction	Water-2020, Centre for the Environment, IIT Guwahati, India	23-25 Jan , 2020		
22.	Payal Mazumder, Jyoti Kainthola, Meena Khwairakpam, Ajay Kalamdhad	Phytotoxicity of aquatic weeds and their soil applicability	National conference on Issues & Challenges in Water Treatment and Allied Research for Sustainable Environment, Indian Institute of Technology Guwahati, Assam, India.	23-25 Jan, 2020		
23.	Poulami Datta, Pankaj Tiwari, Lalit M. Pandey	Investigating the Potential of Biosurfactants for MEOR Application	WATER 2020, Centre for the Environment, IIT Guwahati	23 -25 Jan, 2020		
24.	Jayakrishnan U, Deepmoni Deka, Gopal Das	Enhancing the PHB accumulating potential of activated sludge by altering nutrient availability	National Conference on Issues & Challenges in Water Treatment and Allied Research for Sustainable Environment, IIT Guwahati	23 -25 Jan, 2020		
25.	Deepti, U.Bora, M.K.Purkait	Separation of chloride and sulphate ions from nanofiltration rejected wastewater of steel industry	WATER-2020, Centre for the Environment, IIT Guwahati	23-25 Jan, 2020		
26.	Sayanti Ghosh and Saswati Chakraborty	Role of seed sludge and oil degrading microorganisms in aerobic granular treatment of hydrocarbon-rich wastewater with phytotoxicity analysis	WATER-2020, Centre for the Environment, IIT Guwahati	23-25 Jan, 2020		
27.	Udaratta Bhattacharjee and Ramagopal V.S. Uppaluri	Development of modified Jeevamrutha bio-fertilizer formulations using cheap and waste rural precursors	WATER-2020, Centre for the Environment, IIT Guwahati	23-25 Jan, 2020		
28.	Arnab Ghosh and Gopal Das	Sorption of Carbon Dioxide on Sn(II)-TMA Metal-Organic Framework	National Conference on Issues and Challenges in Water Treatment and Allied Research for Sustainable Environment (Water 2020), IIT Guwahati	23-25 Jan, 2020		

29.	Saran. S, Arpan. C and Mohanty. K	“Green synthesis of magnetically separable iron nanoparticles for heterogeneous Photo-Fenton degradation of organic pollutants”	Nat conf. on issues and challenges in water treatment and allied research for sustainable environment, IIT Guwahati	23-25 Jan, 2020		
30.	Saran. S and Mohanty. K	Bio-Inspired synthesis of magnetically separable AuPt@TiO ₂ nanocomposite and their catalytic oxidation of glycerol into value added chemicals	Workshop cum Symposium on Bioinspired nanomaterials for Environmental applications, IIT Guwahati	Feb, 2020		
31.	Deepmoni Deka, Debolina Ghosh, Aniket Banerjee, Sayantan Sinha	Synthesis of biobased hydrogel for removal of dye, heavy metal & pharmaceutical compounds	International conference on waste management Recycle 2020	13-14 Feb, 2020		
32.	Paulomi Bose, Chandan Mukherjee and Animes K Golder	Electrocatalytic reduction of CO ₂ to Value-Added Products using oxide of metals (M= Pb and Ni)	DST-UKIERI supported Workshop cum Symposium on Bio-inspired Nanomaterials for Environmental Applications	12-13 Feb, 2020		
33.	Niladri Shekhar Samanta and Mihir Kumar Purkait	Selective glucose permeation in presence of various salts through tunable pore size pH responsive PVDF-co-HFP membrane	WATER-2020, Centre for the Environment, IIT Guwahati	23-25 Jan, 2020		
34.	Poulami Datta, Pankaj Tiwari, Lalit M. Pandey	Evaluation of Oil Washing Efficiency of the Biosurfactant Produced by Bacillus tequilensis from Assam Reservoir Soil	DST-UKIERI supported Workshop cum Symposium – 2020, Bio-inspired Nanomaterials for Environmental Applications	12-13 Feb, 2020		
35.	Tanushree Paul, Kannan Pakshirajan and G. Pugazhenthii	Bio-oil production from oleaginous Rhodococcus opacus biomass treating refinery wastewater in a bioreactor under fed batch operation mode	ICESD-2020, Jadavpur University, Kolkata, India	14-15 Feb, 2020		
36.	Tanushree Paul, Kannan Pakshirajan and G. Pugazhenthii	Biological treatment of refinery wastewater using a submerged tubular membrane bioreactor	RACEEE 2020, SSN college of Engineering, Chennai, India	13-14 Feb, 2020		
37.	Sayanti Ghosh and Saswati Chakraborty	Study on Oily Wastewater Treatment in Aerobic Granular Reactors by Varying Hydraulic Retention Time	DST-UKIERI supported workshop cum symposium on "Bio-inspired Nanomaterials for Environmental Applications", Centre for the Environment, IIT Guwahati	12-13 Feb, 2020		
38.	Rahul Verma, Lal Mohan Kundu, Lalit M. Pandey	Photocatalytic decolorization of molasses based spent wash using UV/ZnO/TiO ₂ /H ₂ O ₂	DST-UKIERI supported workshop cum symposium on "Bio-inspired Nanomaterials for Environmental Applications", Centre for the Environment, IIT Guwahati	12-13 Feb, 2020		
39.	Smruti Ranjan Dash, Aruna Ivaturi, Animes Golder	Electrocatalytic Determination of Cd(II) using Bio-inspired AgNPs and PtNPs modified sensing platforms	Workshop on Recent Advances in Water Contaminants Evaluation and Remediation, Glasgow, Scotland	4 Feb , 2020		
40.	Juna Probha Devi, Anamika Barua and Chandan Mahanta	Theoretical aspect of Adaptation strategies to climate change	Int. Conf on Energy and Environment Technologies for Sustainable Development (Chem-Conflux20), by MNIT Allahabad, during	14 -16 Feb, 2020		
41.	Partha Protim Bakal, Gopal Das	Eco-friendly bio-adsorbent derived from <i>Ricinus communis</i> stem: efficient removal of organic and inorganic environmental pollutants	International conference on waste management Recycle 2020	13-14 Feb, 2020		
42.	Payal Mazumder, Meena Khwairakpam, Ajay Kalamdhad	Fate of heavy metals in water hyacinth compost and its phytotoxicity	International conference on waste management Recycle 2020, IITG	13-14 Feb, 2020		
43.	Juna Probha Devi, Anamika Barua and Chandan Mahanta	Mountain Tourism Adaptation to Climate Change in the Indian Himalayas	Int. Conf. on Second ASCE India Conf. on Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies (CRSIDE 2020),	March 02-04, 2020		

			organized by ASCE India Section held in Kolkata during			
44.	Rahul Verma, Lal Mohan Kundu, Lalit M. Pandey	Characterization and optimization study of biosurfactant produced from molasses using isolated bacterial strain Bacillus subtilis RSL-2	2 nd International conference on Bioprocess for Sustainable Environment and Energy (ICBSEE-India-2020), NIT Rourkela	5-7 March, 2020		

Book Chapter:

Sl. No.	Name of Author/s	Name of Paper	Name of Book	Publisher	Vol. and Issue No.	Page No.	ISBN	Year & Date of Publication
1	Ponnala Vimal Mosahari, Deepika Singh, Jon Jyoti Kalita, Pragma Sharma, Hasnahana Chetia, Debajyoti Kabiraj, Chandan Mahanta, Utpal Bora	Nanotoxicity: Impact on Health and Environment:	Book: Environmental Toxicity of Nanomaterials,	CRC Press	NA	Chpt 02, pp. 35-60, Total Pages 26	eBook ISBN 9781351252959	17.04. 2019
2	Narendra Naik Deshavath, Bijayeeni Singh Deo, Jyothika Boddu, Komali vykuntam, Vaibhav. V Goud, V. Venkata Dasu,	Dilute acid pretreatment efficiency on various solid loadings and effect of different neutralizing agents on xylulosic ethanol production	Advances in Plant & Microbial Biotechnology	Springer, Singapore			978-981-13-6321-4	2019
3	Narendra Naik Deshavath, Veeranki Venkata Dasu, Vaibhav V. Goud,	Lignocellulosic feedstocks for the production of bioethanol: Availability, structure and composition	Sustainable Bioenergy	Elsevier			978-012-81-76542	2019
4	Udaratta Bhattacharjee, Lalit M. Pandey	Novel Nanoengineered Materials-Based Catalysts for Various Bioelectrochemical Systems	Novel Catalyst Materials for Bioelectrochemical Systems: Fundamentals and Applications	ACS Publications		Page no. 45-71,	ISBN-9780841236684	Jan, 2020
5	Surajbhan Sevda, Vijay Kumar Garlapati, Swati Sharma, Udaratta Bhattacharjee, Lalit M. Pandey, T.R. Sreekrishnan	Oil and petrochemical industries wastewater treatment in bioelectrochemical systems	Integrated Microbial Fuel Cells for Wastewater Treatment	USA: Elsevier.			ISBN : 9780128174937	Jan, 2020 (1st, pp. 1-19)