

Publication List:

S. No	Authors	Title	Publication	Volume	Number	Pages	Year	Publisher
1	John, Indulekha; Yaragarla, Prasanthi; Appusamy, Arunagiri;	Production of Bioethanol from Banana Peel Using Isolated Cellulase from <i>Aspergillus Niger</i>	Global Challenges in Energy and Environment			Sep-18	2020	Springer, Singapore
2	Sethupathy, A; Arunagiri, A; Sivashanmugam, P; Banu, J Rajesh; Ashokkumar, Muthupandian;	Disperser coupled rhamnolipid disintegration of pulp and paper mill waste biosolid: Characterisation, methane production, energy assessment and cost analysis	Bioresource Technology	297		122545	2020	Elsevier
3	Sivaram, PM; Dinesh Kumar, S; Premalatha, M; Sivasankar, T; Arunagiri, A;	Experimental investigation on airflow and water production in the integrated rooftop solar thermal system	Journal of Solar Energy Engineering	142	3		2020	American Society of Mechanical Engineers Digital Collection
4	Sivaram, PM; Kumar, S Dinesh; Premalatha, M; Sivasankar, T; Arunagiri, A;	Experimental and numerical study of stepped solar still integrated with a passive external condenser and its application	Environment, Development and Sustainability			Jan-29	2020	Springer Netherlands
5	Arunagiri, A; Perumalsamy, M; Sivasankar, T; Sivashanmugam, P; Srinath, Suranani;	Advances and challenges for sustainable ecosystems					2020	Springer Berlin Heidelberg
6	Sivaram, PM; Mande, Amol B; Premalatha, M; Arunagiri, A;	Investigation on a building-integrated passive solar energy technology for air ventilation, clean water and power	Energy Conversion and Management	211		112739	2020	Pergamon
7	John, Indulekha; Pola, Jishnu; Appusamy, Arunagiri;	Optimization of ultrasonic assisted saccharification of sweet lime peel for bioethanol production using Box–Behnken method	Waste and biomass valorization	10	2	441-453	2019	Springer Netherlands
8	John, Indulekha; Pola, Jishnu; Thanabalan, Murugesan; Appusamy, Arunagiri;	Bioethanol production from musambi peel by acid catalyzed steam pretreatment and enzymatic saccharification: Optimization of delignification using taguchi design	Waste and Biomass Valorization			Jan-13	2019	Springer Netherlands

9	Rashid, Zeeshan; Wilfred, Cecilia Devi; Gnanasundaram, Nirmala; Arunagiri, Appusamy; Murugesan, Thanabalan;	A comprehensive review on the recent advances on the petroleum asphaltene aggregation	Journal of Petroleum Science and Engineering	176		249-268	2019	Elsevier
10	Anjum, Hirra; Johari, Khairiraihanna; Gnanasundaram, Nirmala; Appusamy, Arunagiri; Thanabalan, Murugesan;	Impact of surface modification on adsorptive removal of BTX onto activated carbon	Journal of Molecular Liquids	280		238-251	2019	Elsevier
11	Anjum, Hirra; Johari, Khairiraihanna; Gnanasundaram, Nirmala; Appusamy, Arunagiri; Thanabalan, Murugesan;	Investigation of green functionalization of multiwall carbon nanotubes and its application in adsorption of benzene, toluene & p-xylene from aqueous solution	Journal of cleaner production	221		323-338	2019	Elsevier
12	Selvakumar, P; Arunagiri, A; Sivashanmugam, P;	Thermo-sonic assisted enzymatic pre-treatment of sludge biomass as potential feedstock for oleaginous yeast cultivation to produce biodiesel	Renewable energy	139		1400-1411	2019	Pergamon
13	Safdar, Rizwan; Gnanasundaram, Nirmala; Iyyasami, Regupathi; Appusamy, Arunagiri; Papadimitriou, Sofia; Thanabalan, Murugesan;	Preparation, characterization and stability evaluation of ionic liquid blended chitosan tripolyphosphate microparticles	Journal of Drug Delivery Science and Technology	50		217-225	2019	Elsevier
14	Anjum, Hirra; Johari, Khairiraihanna; Appusamy, Arunagiri; Gnanasundaram, Nirmala; Thanabalan, Murugesan;	Surface modification and characterization of carbonaceous adsorbents for the efficient removal of oil pollutants	Journal of hazardous materials	379		120673	2019	Elsevier

15	Rashid, Zeeshan; Wilfred, Cecilia Devi; Iyyaswami, Regupathi; Appusamy, Arunagiri; Thanabalan, Murugesan;	Investigating the solubility of petroleum asphaltene in ionic liquids and their interaction using COSMO-RS	Journal of Industrial and Engineering Chemistry	79		194-203	2019	Elsevier
16	John, Indulekha; Pola, Jishnu; Muthukumar, Karuppan; Thanabalan, Murugesan; Appusamy, Arunagiri;	Production of bioethanol from sweet lime peel via a statistically optimized simultaneous saccharification and fermentation process using isolated enzymes	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects			01-Sep	2019	Taylor & Francis
17	John, Indulekha; Yaragarla, Prasanthi; Appusamy, Arunagiri;	Production of Bioethanol from Banana Peel Using Isolated Cellulase	Global Challenges in Energy and Environment: Select Proceedings of ICEE 2018			9	2019	Springer Nature
18	Anjum, Hirra; Johari, Khairiraihanna; Gnanasundaram, Nirmala; Ganesapillai, Magesh; Arunagiri, Appusamy; Regupathi, Iyyaswami; Thanabalan, Murugesan;	A review on adsorptive removal of oil pollutants (BTEX) from wastewater using carbon nanotubes	Journal of Molecular Liquids	277		1005-1025	2019	Elsevier
19	Rashid, Zeeshan; Wilfred, Cecilia Devi; Gnanasundaram, Nirmala; Arunagiri, Appusamy; Murugesan, Thanabalan;	Screening of ionic liquids as green oilfield solvents for the potential removal of asphaltene from simulated oil: COSMO-RS model approach	Journal of Molecular Liquids	255		492-503	2018	Elsevier
20	Yasvanthrajan, N; Nabera, A; Salike, S; Valan, DT; Sivakumar, P; Muthukumar, K; Arunagiri, A;	An overview on the process intensification of microchannel reactors for biodiesel production	Chem. Eng. Process.–Process Intensif.				2018	

21	Safdar, Rizwan; Omar, Abdul Aziz; Arunagiri, A; Thanabalan, Murugesan;	Synthesis and characterization of imidazolium ILs based chitosan–tripolyphosphate microparticles	IOP Conference Series: Materials Science and Engineering	458	1	12080	2018	IOP Publishing
22	Rashid, Tazien; Gnanasundaram, Nirmala; Appusamy, Arunagiri; Kait, Chong Fai; Thanabalan, Murugesan;	Enhanced lignin extraction from different species of oil palm biomass: Kinetics and optimization of extraction conditions	Industrial crops and products	116		122-136	2018	Elsevier
23	Indulekha, John; Siddarth, MS Gokul; Kalaichelvi, Ponnusamy; Arunagiri, Appusamy;	Characterization of citrus peels for bioethanol production	Materials, energy and environment engineering			03-Dec	2017	Springer, Singapore
24	John, Indulekha; Yaragarla, Prasanthi; Muthaiah, Perumalsamy; Ponnusamy, Kalaichelvi; Appusamy, Arunagiri;	Statistical optimization of acid catalyzed steam pretreatment of citrus peel waste for bioethanol production	Resource-Efficient Technologies	3	4	429-433	2017	No longer published by Elsevier
25	John, Indulekha; Muthukumar, Karuppan; Arunagiri, Appusamy;	A review on the potential of citrus waste for D-Limonene, pectin, and bioethanol production	International Journal of Green Energy	14	7	599-612	2017	Taylor & Francis
26	Saravanan, Dhanabalan Duraimurugan Alias; Murugesan, Thanabalan; Arunagiri, Appusamy;	Determination of design parameters for the cloud point extraction of remazol turquoise blue G-133 dye using triton X-114 surfactant	Desalination and Water Treatment	60		228-241	2017	Desalination Publications
27	Augusta, P; Kalaichelvi, P; Sheeba, KN; Arunagiri, A;	Microwave-and ultrasound-assisted surfactant treated adsorbent for the efficient removal of emulsified oil from wastewater	Innovative Technologies for the Treatment of Industrial Wastewater			205-246	2017	Apple Academic Press
28	Arunagiri, A; Sheeba, KN; Kalaichelvi, P; Augusta, P;	Microwave-and Ultrasound-Assisted Surfactant Treated Adsorbent for the	Innovative Technologies for the Treatment of			229-270	2017	Apple Academic Press

		Efficient Removal of Emulsified Oil from Wastewater	Industrial Wastewater					
29	Akbar, Majid Majeed; Chemat, Fareeda; Arunagiri, Appusamy; Murugesan, Thanabalan;	Density and excess properties of N-methyldiethanolamine (MDEA) with 1-hexyl-3-methylimidazolium tris (pentafluoroethyl) trifluorophosphate [hmim][FAP]	Journal of Thermal Analysis and Calorimetry	123	1	785-791	2016	Springer Netherlands
30	Duraimurugan, D; Mathuri, L; Indulekha, J; Anantharaj, R; Arunagiri, A;	Performance Evaluation of Tergitol NP-7 and Triton X-114 for the Removal of Crystal Violet Using Cloud-point Extraction	Chemical and biochemical engineering quarterly	30	2	189-198	2016	Hrvatsko društvo kemijskih inženjera i tehnologa
31	BharathVenkatesh, R; Janardhan, S; Eswari, R; Arunagiri, A;	Optimal Dimensioning of Fractal-like Tree Channels for Fluid Flow Applications	Separation Technologies in Chemical, Biochemical, Petroleum and Environmental Engineering			13	2016	
32	Pachathu, Augusta; Ponnusamy, Kalaichelvi; Kizhakkuveetil, Sheeba Narayanan; Appusamy, Arunagiri;	Microwave-assisted preparation of bagasse and rice straw for the removal of emulsified oil from wastewater	Bioremediation Journal	20	2	153-163	2016	Taylor & Francis
33	Illa, Aravind; Haridas, Nisha; Elias, Elizabeth;	Design of multiplier-less FIR filters with simultaneously variable bandwidth and fractional delay	Engineering science and technology, an international journal	19	3	1160-1165	2016	Elsevier
34	Dhanuskodi, R; Kaliappan, R; Suresh, S; Anantharaman, N; Arunagiri, A; Krishnaiah, J;	Artificial Neural Networks model for predicting wall temperature of supercritical boilers	Applied Thermal Engineering	90		749-753	2015	Pergamon
35	Arunagiri, Appusamy; Priya, Komal; Kalaichelvi, Ponnusamy;	Extraction of Reactive Orange 107 dye from aqueous stream using Triton X-114 surfactant: Quantum chemical calculations and experiment	Journal of Industrial and Engineering Chemistry	20	4	2409-2420	2014	Elsevier

	Anantharaj, Ramalingam;							
36	Ramalingam, Anantharaj; Subramanian, RR; Arunagiri, A;	Molecular interactions in binary mixtures of 1-ethyl-3-methylimidazolium ethylsulphate? aromatic sulfur species: Ab initio calculations and experiment	J. Innovat. Eng	2	2	6	2014	
37	Appusamy, Arunagiri; John, Indulekha; Ponnusamy, Kalaichelvi; Ramalingam, Anantharaj;	Removal of crystal violet dye from aqueous solution using triton X-114 surfactant via cloud point extraction	Engineering Science and Technology, an International Journal	17	3	137-144	2014	Elsevier
38	Appusamy, Arunagiri; Purushothaman, Prabisha; Ponnusamy, Kalaichelvi; Ramalingam, Anantharaj;	Separation of methylene blue dye from aqueous solution using triton X-114 surfactant	Journal of Thermodynamics	2014			2014	Hindawi
39	Ramasamy, Dhanuskodi; Appusamy, Arunagiri; Narayanan, Anantharaman;	Review of the Wall Temperature Prediction Capability of Available Correlations for Heat Transfer at Supercritical Conditions of Water	Journal of Energy	2013			2013	Hindawi
40	Muthamizhi, K; Kalaichelvi, P; Arunagiri, A; Rudhra, A;	Measurement and model validation of specific heat of Xanthan gum using joules calorimeter method	Int. J. Res. Eng. Ring Technol.	2		232-238	2013	
41	Dhanuskodi, R; Arunagiri, A; Anantharaman, N;	Review of the wall temperature prediction capability of available correlations for heat transfer at supercritical conditions of water					2013	Hindawi Publishing Corporation Journal of Energy
42	Dhanuskodi, R; Arunagiri, A; Anantharaman, N;	Emission reduction potential of supercritical boilers planned in India	TERI Information Digest on Energy and Environment	12	1	Nov-16	2013	The Energy and Resources Institute (TERI)

43	Arunagiria, A; Kalaichelvia, P; Cherukuria, Subbarao; Vijayana, Anuja;	Studies on removal of reactive blue dye using cloud point extraction	International Journal	3	1		2012	
44	Arunagiri, A; Regupathi, I; Murugesan, T;	Interfacial area and mass transfer coefficients in liquid-gas ejectors	Theoretical Foundations of Chemical Engineering	45	6	818-823	2011	SP MAIK Nauka/Interperiodica
45	Dhanuskodi, R; Arunagiri, A; Anantharaman, N;	Analysis of variation in properties and its impact on heat transfer in sub and supercritical conditions of water/steam	International Journal of Chemical Engineering and Applications	2	5	320	2011	IACSIT Press
46	Shanawaskhan, C; Kalaichelvi, P; Perumalsamy, M; Arunagiri, A;	Computational Fluid Dynamic Analysis of two phase jet Mixer	Journal of the University of Chemical Technology and Metallurgy	44	3	262-266	2009	
47	Jayarajan, M; Arunachalam, R; Annadurai, G; Achak, M; Hafidi, A; Ouazzani, N; Sayadi, S; Mandi, L; Aksu, Z; Annadurai, G;	Decolorization studies of synthetic dyes using Phanerochaete chrysosporium and their kinetics.	Research Journal of Environmental Sciences	5	5	117-125	2009	orgz
48	Arunagiri, Appusamy; Regupathi, Iyyaswamy; Murugesan, Thanapalan;	Gas holdup and energy dissipation in liquid-gas ejectors	Journal of Chemical Technology & Biotechnology: International Research in Process, Environmental & Clean Technology	83	7	1064-1071	2008	John Wiley & Sons, Ltd. Chichester, UK
49	Yu-Pin, Tian; Li-Jiao, Huang; Blanquez, P; Sarra, M; Vicent, T; Boer, CG; Obici, L; de Souza, CGM; Peralta, RM; Chander, M;	Laccase purification and characterization from Trametes trogii isolated in Tunisia: Decolorization of textile dyes by the purified enzyme.	Biotechnology	12	2	01-Jul	2008	orgz

50	Jagadeesh-Babua, PE; Arunagiri, A; Reghupathi, I; Murugesan, T;	Pressure drop and liquid holdup in co-current gas-liquid downflow of air-CMC solutions through packed beds	Chemical and biochemical engineering quarterly	21	2	121-129	2007	Hrvatsko društvo kemijskih inženjera i tehnologa
51	Kalaichelvi, P; Perumalsamy, M; Arunagiri, A; Sofiya, K;	Synergistic extraction of acetic acid from its aqueous solution	Journal of the University of Chemical Technology and Metallurgy	42	3	291-294	2007	
52	Sendilkumar, K; Kalaichelvi, P; Perumalsamy, M; Arunagiri, A; Raja, T;	Computational fluid dynamic analysis of mixing characteristics inside a jet mixer for Newtonian and non Newtonian fluids	World Congress on Engineering and Computer Science			120-128	2007	IAENG São Francisco
53	Jagadeesh Babu, Ponnan Ettiyappan; Arunagiri, Appusamy; Murugesan, Thanapalan;	Prediction of two-phase pressure drop and liquid holdup in co-current gas-liquid downflow of air-Newtonian systems through packed beds	Journal of Chemical Technology & Biotechnology: International Research in Process, Environmental & Clean Technology	81	1	70-81	2006	John Wiley & Sons, Ltd. Chichester, UK
54	Babu, Jagadeesh; Ettiyappan, Ponnan; Arunagiri, Appusamy; Murugesan, Thanapalan;	Prediction of two-phase pressure drop and liquid holdup in co-current gas-liquid downflow of air-Newtonian systems through packed beds	Journal of Chemical Technology & Biotechnology	81	1	70-81	2006	John Wiley & Sons, Ltd.
55	Radha, KV; Regupathi, I; Arunagiri, A; Murugesan, T;	Decolorization studies of synthetic dyes using Phanerochaete chrysosporium and their kinetics	Process Biochemistry	40	10	3337-3345	2005	Elsevier
56	Murugesan, Thanapalan; Arunagiri, Appusamy;	Slip velocity and gas holdup in a gas-liquid co-current upflow through a packed bed	Journal of chemical engineering of Japan	38	4	243-252	2005	The Society of Chemical Engineers, Japan
57	Bhatnagar, A; Jain, AK; Mukul, MK; Boer, CG; Obici, L; de Souza, CGM; Peralta, RM; Box, GEP; Behnken, DW; Brasil, JL;	The removal of colour from textile wastewater using whole bacterial cells: A review.	Biotechnology	6	1	199-202	2005	orgz

58	Muthukumar, K; Arunagiri, A; Anantharaman, N; Shumugha, P; Basha, AA;	Treatment of Textile Dye Effluent by Electrocoagulation Technique	JOURNAL OF INDUSTRIAL POLLUTION CONTROL.	19	2	281-288	2003	ENVIRO MEDIA
59	Babu, PE Jagadeesh; Arunagiri, A; Murugesan, T;	PressureDropandLiquidHoldupinCo- currentGas-LiquidDownflow ofAir- CMCSolutionsthroughPackedBeds						
60	Arunagiri, Appusamy; Priya, Komal; Saravanan, Duraimurugan Alias; Kalaichelvi, Ponnusamy; Anantharaj, Ramalingam;	EVALUATION OF INTERACTION ENERGIES AND THERMODYNAMIC PROPERTIES IN BINARY MIXTURE OF REACTIVE ORANGE 107 DYE+ TRITON X-114 SURFACTANT AT 303.15, 313.15 & 323.15 K: AB INITIO METHOD AND EXPERIMENT						
61	alias Saravanan, MD Duraimurugan; Shanmugapriya, DK; Kalaichelvi, P; Arunagiri, A;	Cloud point extraction of Phenol using TX-100 as non-ionic surfactant						