

Department of Chemical Engineering
SSN College of Engineering, Chennai

List of Research Scholar's Publications

2012-2013

Sl. No.	Title of papers	Author(s)	Name, volume number of Journal, page number and year of publication	DOI	Impact Factor
1	Delivery of protein using Nanoparticles	A.Robin, V.A.Veni, M.Thanigaivel, J.Madhusudhanan , K.Sathish Kumar	International Journal of pharmacy and pharmaceutical sciences Vol.4 (4), pp. 512-517, 2012	----	---
2	Fabrication, characterization and application of pectin degrading Fe ₃ O ₄ -SiO ₂ nanobiocatalyst	Muthulingam Seenuvasan , Carlin Geor Malar , Sridhar Preethi, Nagarajan Balaji , Jeyaraj Iyyappan, Madhava Anil Kumar, K. Sathish Kumar	Material science and Engineering C , Vol..33, pp. 2273-2279, 2013	10.1016/j.msec.2013.01.050	4.164
3	Immobilization of pectinase on co-precipitated magnetic nanoparticles for enhanced stability and activity	Muthulingam Seenuvasan , Carlin Geor Malar , Sridhar Preethi, Nagarajan Balaji , Jayaraj Iyyappan, Anil Kumar, K. Sathish Kumar	Research Journal of Biotechnology , Vol.8 (5), pp. 24-30, 2013	----	----
4	Biofunctionlaised nanoparticle for drug delivery	K. Sathish Kumar, J.Madhusudhanan , Thanigaivel, Robin Abraham, V.A.Veni	Research Journal of Biotechnology , Vol..8 (4), pp. 70-77, 2013	----	----

2013-2014

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1	Comparative Drug Release Studies of 5-Fluorouracil and 6-Thioguanine Entrapped in Peg-Co-Pla/Gold Nanocapsules	K. Sathishkumar, K. Rajasekar, P.P.Selvam, Sai Madhusudhanan	Chemical Science Review and Letters , Vol. 2 (5), pp. 363-368, 2014	----	-----

2014-2015

Sl. No.	Title of papers	Author(s)	Name, volume number of Journal, page number and year of publication	DOI	Impact Factor
1	Characteristics of thermodynamic, isotherm, kinetic, mechanism and design equations for the analysis of adsorption in Cd(II) ions – surface modified Eucalyptus seeds system	U. Pearlin Kiruba , P. Senthil Kumar*, C. Prabhakaran, V. Aditya	Journal of Taiwan Institute of Chemical Engineers Vol.45, pp. 2957-2968, 2014	10.1016/j.jtice.2014.08.016	4.217
2	Comparison of Biodiesel Production from Macro and Micro Algae	G. Manikandan , P. Senthil Kumar*, R. Prakalathan	International Journal of ChemTech Research Vol.6 (9), pp. 4143-4147 2014	----	----
3	Ultrasound assisted saccharification of saw dust for the production of bioethanol	T. Sivakumar , P. Senthil Kumar*	International Journal of ChemTech Research Vol.6 (9), pp. 4386-4390, 2014	----	----

4	Adsorptive removal of Pb(II) ions from polluted water by newly synthesized chitosan - polyacrylonitrile blend: Equilibrium, kinetic, mechanism and thermodynamic approach	T. Anitha, P. Senthil Kumar*, K. Sathish Kumar, B. Ramkumar, S. Ramalingam	Process Safety and Environmental Protection Vol. 98, pp. 187-197 2015	10.1016/j.ps ep.2015.07.0 12	2.905
5	Characterization, Analysis and Application of Fabricated Fe ₃ O ₄ -Chitosan-Pectinase nanobiocatalyst	Muthulingam Seenuvasan, K.Sathish Kumar, Carlin Geor Malar, Sridhar Preethi, Nagarajan Balaji, Madhava Anil Kumar	Applied Biochemistry and Biotechnology, Vol. 172 (5), pp. 2706-2719, 2014	10.1007/s12 010-014- 0725-5	1.751
6	Optimization of medium components for antibacterial metabolite production from Marine Streptomyces SP.PUA2 using Response Surface Methodology	P.Shekar, K.Sathish Kumar, S.Anuradha, M.Radhakrishnan, M.Balagurunathan	International Journal of Pharmacy and Pharmaceutical sciences, Vol. 6(7), pp. 475-480, 2014	----	----
7	Microwave assisted nanohydrogels for drug delivery systems	G. Karthiga Devi, K. Sathish Kumar, K. Arivalagan	International Journal of Pharmacy and Pharmaceutical Sciences 6(4), pp. 118-123, 2014	----	----
8	Response surface estimation and canonical quantification for pectin degrading Fe ₃ O ₄ -SiO ₂ nanobiocatalyst fabrication	Muthulingam Seenuvasan, K.Sathish Kumar, Madhava Anil Kumar, Jeyaraj Iyyapan, John rini Gnana Suganthi	International Journal of ChemTech Research, Vol. 6, pp. 3618-3627, 2014	----	----

9	Antibacterial efficacy of Iron oxide nanoparticles against biofilms on different biomaterial surfaces	Monica Thukkaram, Soundarya Sitaram, Sathish Kumar Kannaiyan, Guruprakash Subbiahdoss	International Journal of Biomaterials, Article ID 716080, pp. 1-6, 2014 (2014)	10.1155/2014/716080	----
10	Standardization of non-edible Pongamia pinnata oil methyl ester conversion using hydroxyl content and GC-MS analysis	Muthulingam Seenuvasan, Prabakaran Kalai Selvi, Madhava Anil Kumar, Jeyaraj Iyyappan, Kannaiyan Sathish Kumar	Journal of the Taiwan Institute of Chemical Engineers, Vol. 45, pp. 1485-1489, 2014	10.1016/j.jtice.2013.11.002	4.217

2015-2016

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1	Study of adsorption kinetic, mechanism, isotherm, thermodynamic and design models for Cu(II) ions on sulphuric acid modified Eucalyptus seeds: Temperature effect	U. Pearlin Kiruba, P. Senthil Kumar*, K. Sangita Gayatri, S. Shahul Hameed, M. Sindhuja, C. Prabhakaran	Desalination and Water Treatment Vol.56 (11), pp. 2948-2965, 2015	10.1080/19443994.2014.966279	1.631
2	Adsorption of copper ions onto nano scale zero-valent iron impregnated cashew nut shell	D. Prabu, R. Parthiban, P. Senthil Kumar* Nupur Kumari, Paharika Saikia	Desalination and Water Treatment Vol.57 (14), pp. 6487-6502, 2016	10.1080/19443994.2015.1007488	1.631
3	Biosorption of lead(II) ions onto nano-sized chitosan particle blended Polyvinyl	T. Anitha, P. Senthil Kumar*, K. Sathish Kumar, K. Sriram, J. Feroze Ahmed,	Desalination and Water Treatment Vol. 57 (29), pp. 13711-13721, 2016	10.1080/19443994.2015.1061951	1.631

	Alcohol (PVA): Adsorption Isotherms, Kinetics and equilibrium studies				
4	Optimization of process parameters for the removal of chromium(VI) and nickel(II) from aqueous solutions by mixed biosorbents (custard apple seeds and <i>Aspergillus niger</i>) using response surface methodology	A. Saravanan , P. Senthil Kumar*, B. Preetha	Desalination and Water Treatment Vol. 57 (31), pp. 14530-14543, 2016	10.1080/19443994.2015.1064034	1.631
5	Ultrasonic assisted activated biomass (fishtail palm <i>Caryota urens</i> seeds) for the sequestration of copper ions from the wastewater	A. Saravanan , P. Senthil Kumar*, R. Mugilan	Research on Chemical Intermediates Vol. 42, pp. 3117-3146, 2016	10.1007/s11164-015-2201-4	1.639
6	Biochemical quantification and antibacterial properties of <i>Corallocarpus epigaeus</i>	M. Jayaseelan, T. Arumugam , P. Senthil Kumar, N.Thangaraj	Bioscience Discovery , Vol.7 (1), pp. 11-16, 2016	----	3.42
7	Removal of toxic zinc from water / wastewater using eucalyptus seeds activated carbon: Non-linear regression analysis	P. Senthil Kumar*, A. Saravanan , K. Anish Kumar, R. Yashwanth, S. Visvesh	IET Nanobiotechnology Vo.10 (4), pp. 244-253, 2016	10.1049/iet-n bt.2015.0087	1.50
8	New UV-Curable Prepolymer: Synthesis, Characterization,	V. Jaikumar, D. Kumar	International Journal of Polymer Analysis and Characterization Vol. 20, pp. 481–490,	10.1080/1023666X.2015.1050629	2.47

	and Kinetics Analysis		2015		
9	Effect of Camphorquinone with 2, 2-Bis-[4-(2-hydroxy-3-methacryloxyprop-1-oxo)phenyl]propane in dental coating	V. Jaikumar, D. Kumar	International Journal of ChemTech Research Vol.8 (6), pp 828-833 2015	----	---
10	HPTLC fingerprint profile of antibacterial compound produced from forest soil Streptomyces SFA5	P. Shekar , K. Sathish Kumar, V. Gopikrishnan, M. Radhakrishnan	Bangladesh Journal of Pharmacology Vol. 11, pp. 00-00, 2016	10.3329/bjp.v11i1.25478	1.052
11	Development of an Inhaled Sustained Release Dry Powder Formulation of Salbutamol Sulphate, an Antiasthmatic Drug	C. Kumaresan , K. Sathish Kumar	Indian Journal of Pharmaceutical Sciences Vol. 78 (1), pp. 136-142 2016	----	0.762
12	Purification and characterization of Pleurotus ostreatus oxidoreductive laccase produced through solid state fermentation using Musa cavendish as a solid support	Nagarajan Balaji , Kannaiyan Sathish Kumar	Research Journal of Biotechnology Vol. 11 (5), pp. 95-101, 2016	----	----
13	Antiproliferative activity of yellow pigment from forest soil Streptomyces sp SFA5 against breast cancer cell line MCF-7	S. Ponnuswamy , S. Kannaiyan, G. Venugopal, R. Manikkam	Bangladesh Journal of Pharmacology Vol. 10, pp. 652-653 2015	10.3329/bjp.v10i3.24034	1.052

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1	An insight study on HPTLC fingerprinting of Mukia maderaspatna: Mechanism of bioactive constituents in metal nanoparticle synthesis and its activity against human pathogens	G. Karthiga Devi , K. Sathish Kumar, R. Parthiban, K. Kalishwaralal	Microbial Pathogenesis Vol. 102, pp. 120-132, 2017	10.1016/j.micpath.2016.11.026	2.009
2	Prediction and interpretation of adsorption parameters for the sequestration of methylene blue dye from aqueous solution using microwave assisted corncob activated carbon	V. Tharaneedharan, P. Senthil Kumar*, A. Saravanan , C. Ravikumar, V. Jaikumar	Sustainable Materials and Technologies , Vol. 11, pp. 1-11, 2017	10.1016/j.usmat.2016.11.001	----
3	Biosorption of Pb(II), Ni(II) and Cr(VI) ions from aqueous solution using <i>Rhizoclonium tortuosum</i> : Extended application to nickel plating industrial wastewater	S. Suganya , K. Kayalvizhi, P. Senthil Kumar*, A. Saravanan , V. Vinoth Kumar	Desalination and Water Treatment Vo.57 (52), pp. 25114-25139, 2016	10.1080/19443994.2016.1149111	1.631
4	Sequestration of Pb(II) and Ni(II) ions from aqueous solution using microalga	S. Suganya , A. Saravanan , P.Senthil Kumar*, M.Yashwanthraj, P. Sundar rajan	Journal of Water Reuse and Desalination Vol. 7, pp. 214-227, 2017	10.2166/wrd.2016.200	0.686

	<i>Rhizoclonium hookeri</i> : Adsorption thermodynamics, kinetics and equilibrium studies	K. Kayalvizhi			
5	Nano scale zero-valent iron impregnated agricultural waste as an effective biosorbent for the removal of heavy metal ions from wastewater	P. Senthil Kumar*, A. Saravanan , P. Sundar rajan, M.Yashwanthraj	Textiles and Clothing Sustainability Vol. 2 (3), pp. 1-11, 2016	10.1186/s40689-016-0014-5	---
6	Green synthesis of novel silver nanocomposite hydrogel based on sodium alginate as an efficient biosorbent for the dye wastewater treatment: Prediction of isotherm and kinetic parameters	G. Karthiga Devi , P. Senthil Kumar*, K. Sathish Kumar	Desalination and Water Treatment Vo.57 (57), pp. 27686-27699, 2016	10.1080/19443994.2016.1178178	1.631
7	Influence of ultrasonication on preparation of novel material for heavy metal removal from water/ wastewater	A. Saravanan , P. Senthil Kumar*, P. Sundar rajan, Abishek S Narayan, Abhishek Dutta	Korean Journal of Chemical Engineering Vol. 33 (9), pp. 2716-2731, 2016	10.1007/s11814-016-0109-3	2.007
8	Ultrasonic modified corn pith for the sequestration of dye from aqueous solution	R. Jothirani , P. Senthil Kumar*, A. Saravanan , Abishek S Narayan and Abhishek Dutta	Journal of Industrial and Engineering Chemistry Vol. 39, pp. 162-175, 2016	10.1016/j.jiec.2016.05.024	4.421
9	Synthesis and characterization of metallic nanoparticles impregnated onto activated	A. Saravanan , P. Senthil Kumar*, G. Karthiga Devi , T. Arumugam	Microbial Pathogenesis Vol. 97, pp. 198-203 and 2016	10.1016/j.micpath.2016.06.019	2.009

	carbon using leaf extract of <i>Mukia maderasapatna</i> : Evaluation of antimicrobial activities				
10	Review on nano adsorbents: A solution for heavy metal removal from wastewater	T. Vinni Novi, V. Vinoth Kumar*, P. Senthil Kumar*, Charles Christy, Sundar Sai Lavanyaa, Dhanya Vishnu, A. Saravanan , V. Vasanth Kumar S. Sivanesan	IET Nanobiotechnology Vol. 11, pp. 213-224 2017	10.1049/iet-nbt.2015.0114	1.50
11	Isolation and Identification of <i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i> from prawn (<i>Penaeus monodon</i>) seafood : Preservation strategies	P.R. Yaashikaa , A. Saravanan , P. Senthil Kumar*	Microbial Pathogenesis Vol. 99, pp. 5-13 2016	10.1016/j.micpath.2016.07.014	2.009
12	Synthesis of nano-sized chitosan blended Polyvinyl alcohol for the removal of Eosin Yellow dye from aqueous solution	T. Anitha , P. Senthil Kumar*, K. Sathish Kumar	Journal of Water Process Engineering Vol. 13, pp. 127-136 2016	10.1016/j.jwpe.2016.08.003	----
13	Higher adsorption capacity of <i>Spirulina platensis</i> alga for Cr(VI) ions removal : Parameter optimization, equilibrium, kinetic and thermodynamic predictions	E. Gunasundari , P. Senthil Kumar*	IET Nanobiotechnology Vol. 11, pp. 317-328 2017	10.1049/iet-nbt.2016.0121	1.50
14	Rediscovery of <i>Crotalaria rigida</i> (Leguminosae)— Rare and endemic legume of Southern India,	N. Dhatchanamoorthy T. Arumugam , P. Senthil Kumar	Pytotaxa , Vol. 278 (3), pp. 297-300, 2016	10.11646/pytotaxa.278.3.11	1.797

	Tamil Nadu				
15	Surface adsorption of poisonous Pb(II) ions from water using chitosan functionalized magnetic nanoparticles	C. Femina Carolin, A. Saravanan , P. Senthil Kumar*, P. Sundar Rajan, V. Vinoth Kumar	IET Nanobiotechnology (Article in press) 2016	10.1049/iet-nbt.2016.0166	1.50
16	HPTLC fingerprint profile, in vitro antioxidant and evaluation of antimicrobial compound produced from <i>Brevibacillus brevis</i> -EGS9 against multidrug resistant <i>Staphylococcus aureus</i>	T. Arumugam , P. Senthil Kumar K.P.Gopinath	Microbial Pathogenesis Vol.102, pp. 166-172 2017	10.1016/j.micpath.2016.12.002	2.009
17	Heat transfer enhancement using single base and double base nanofluids	B. Chitra , K. Sathish Kumar	Journal of Molecular Liquids Vol. 221, pp. 1128–1132 2016	10.1016/j.molliq.2016.06.084	3.648
18	Computation of adsorption parameters for the removal of dye from wastewater by microwave assisted sawdust: Theoretical and experimental analysis	S. Suganya , P. Senthil Kumar*, A. Saravanan , P. Sundar Rajan, C. Ravikumar	Environmental Toxicology and Pharmacology Vol.50, pp. 45-57 2017	10.1016/j.etap.2017.01.014	2.313
19	Screening of novel actinobacteria and characterization of the potential isolates from mangrove sediment of south coastal India	T. Arumugam , P. Senthil Kumar*, R. Kameshwar, K. Prapanchana	Microbial Pathogenesis Vol. 107, pp. 225-233 2017	10.1016/j.micpath.2017.03.035	2.009
20	Sequestration of toxic Cr(VI) ions from industrial	A. Saravanan , P. Senthil Kumar* M.Yashwanthraj	Desalination and Water Treatment Vol.68, pp. 245-266	10.5004/dwt.2017.20322	1.631

	wastewater using waste biomass: A review		2017		
21	Enhanced adsorption capacity of biomass through ultrasonication for the removal of toxic cadmium ions from aquatic system : Temperature influence on isotherms and kinetics	A. Saravanan , P.Senthil Kumar*, C. Femina Carolin, S. Sivanesan	Journal of Hazardous, Toxic, and Radioactive Waste Vol.21(3), pp. 1-24 2017	10.1061/(ASCE)HZ.2153 - 5515.00003 55	0.74
22	Antimicrobial activity of Mukia maderasapatna stem extract of jujube seeds activated carbon against Gram-positive / Gram-negative bacteria and Fungi strains: Application in heavy metal removal	R. Gayathri , K.P. Gopinath*, P. Senthil Kumar*, A. Saravanan	Desalination and Water Treatment Vol. 72, pp. 418-427 2017	10.5004/d wt.2017.20 694	1.631
23	Efficient Techniques for the Removal of Toxic Heavy Metals from Aquatic Environment: A Review	C. Femina Carolin, P. Senthil Kumar*, G. Janet Joshiba, A. Saravanan , Mu. Naushad	Journal of Environmental Chemical Engineering Vol. 5, pp. 2782-2799 2017	10.1016/j.je ce.2017.05. 029	----
24	Sorption of Cu(II) ions by nano-scale zero valent iron supported on rubber seed shell	D. Prabu, R. Parthiban, P. Senthil Kumar*, A. Saravanan , Reni John, Tani Titus	IET Nanobiotechnology Vol. 11, Issue No. 6, pp. 714-724 2017	10.1049/iet- nbt.2016.02 24	1.50
25	Modelling and analysis of packed bed column for the effective removal of zinc from aqueous solution using	A. Saravanan , P. Senthil kumar*, M. Yaswanthraj	Particulate Science and Technology , (Article in press) pp. 2017	10.1080/02 726351.201 7.1329243	0.707

	dual surface modified biomass				
26	Construction Of Active Bio-Nanocomposite By Inseminated Metal Nanoparticles Onto Activated Carbon: Probing To Antimicrobial Activity	S. Suganya, P. Senthil Kumar*, A. Saravanan	IET Nanobiotechnology Vol. 11, Issue No. 6, pp. 746-753 2017	10.1049/iet-nbt.2016.02 34	1.50
27	Green synthesis of metal nanoparticles loaded ultrasonic assisted <i>Spirulina platensis</i> using algal extract and their antimicrobial activity	E. Gunasundari, P. Senthil Kumar*, C. Femina Carolin, T. Arumugam, A. Saravanan	IET Nanobiotechnology Vol. 11, Issue No. 6, pp. 754-758 2017	10.1049/iet-nbt.2016.02 23	1.50

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1	Removal of Toxic Cr(VI) ions from Tannery Industrial Wastewater Using a Newly Designed Three-phase Three-dimensional Electrode Reactor	K. Grace Pavithra, P. Senthil Kumar*, C. Femina Carolin, A. Saravanan	Journal of Physics and Chemistry of Solids Vol. 110, pp. 379-385 2017	10.1016/j.jp cs.2017.07. 002	2.059
2	Adsorption isotherm, kinetics and thermodynamic analysis of Cu (II) ions onto the dried algal biomass (<i>Spirulina platensis</i>)	E. Gunasundari, P. Senthil Kumar*	Journal of Industrial and Engineering Chemistry Vol. 56, pp. 129-144, 2017	10.1016/j.ji ec.2017.07. 005	4.421
3	Potential Application of Redox Mediators	B. Suganya, S. Vishal Bellie, R. Parthiban,	ChemBioEng Reviews Vol. 4 (6), pp. 1-9, 2017	---	---

	and Metabolic Uncouplers in Environmental Research-A Review	D. Swaminathan			
4	Optimization of media components for production of antimicrobial compound by <i>Brevibacillus brevis</i> EGS9 isolated from mangrove ecosystem	T. Arumugam, P. Senthil Kumar*,	Journal of Microbiological Methods Vol. 142, pp. 83-89 2017	10.1016/j.mimet.2017.09.010	1.790
5	Treatment of Municipal Wastewater using <i>Scenedesmus</i> abundans : Studies on saccharification of grown biomass using ultrasound assistance	T. Siva Kumar, P. Senthil Kumar*	Desalination and Water Treatment Vol. 89, pp. 94-100, 2017	10.5004/dwt.2017.21373	1.631
6	Sources and impacts of pharmaceutical components in wastewater and its treatment process: A Review	K.Grace Pavithra, P. Senthil Kumar*, P.Sundar Rajan, A. Saravanan, Mu. Naushad	Korean Journal of Chemical Engineering Vol. 34, pp. 2787-2805, 2017	10.1007/s1814-017-0255-2	2.007
7	Hybrid synthesis of novel material through acid modification followed ultrasonication to improve adsorption capacity for zinc removal	A. Saravanan, P. Senthil Kumar*, A. Annam Renita	Journal of Cleaner Production Vol. 172, pp. 92-105 2018	10.1016/j.jclepro.2017.10.109	5.715
8	Carbon sphere: Synthesis, characterization and elimination of toxic Cr(VI) ions from aquatic system	P. Senthil Kumar*, R. Sivaranjane, P. Sundar Rajan, A. Saravanan	Journal of Industrial and Engineering Chemistry Vol. 60, pp. 307-320 2018	10.1016/j.jiec.2017.11.017	4.421
9	Influence of ultrasonic waves on preparation of active carbon from coffee waste for	S. Suganya, P. Senthil Kumar*	Journal of Industrial and Engineering Chemistry Vol. 60, pp. 418-430 2018	10.1016/j.jiec.2017.11.029	4.421

	the reclamation of effluents containing Cr(VI) ions				
10	Treatment of dye wastewater using an ultrasonic aided nanoparticle stacked activated carbon: kinetic and isotherm modelling	P. Senthil Kumar*, Sunita J. Varjani, S. Suganya	Bioresource Technology Vol. 250, pp. 716-722 2017	10.1016/j.biortech.2017.11.097	5.651
11	Isolation, Structure elucidation and anticancer activity from <i>Brevibacillus brevis</i> EGS 9 that combats Multi Drug Resistant actinobacteria	T. Arumugam , P. Senthil Kumar*, R.V. Hemavathy , V. Swetha, R. Karishma Sri	Microbial Pathogenesis Vol. 115, pp. 146-153 2018	10.1016/j.micpath.2017.12.061	2.009
12	Nano-Zero Valent Iron Impregnated Cashew Nut Shell: A Solution to Heavy Metal Contaminated Water / Wastewater	P. Senthil Kumar*, Akshaya S Nair, R. Ananya, A. Saravanan	IET Nanobiotechnology (Accepted for publication) pp. 2018	10.1049/iet-nbt.2017.0264	1.50
13	Isolation, Characterization and Purification of Xylanase producing Bacteria from Sea Sediment	P. Senthil Kumar*, P.R. Yaashikaa , A. Saravanan	Biocatalysis and Agricultural Biotechnology Vol. 13, pp. 299-303 2018	10.1016/j.biocab.2018.01.007	-----
14	Modelling and analysis on the removal of methylene blue dye from aqueous solution using physically/chemically modified <i>Ceiba pentandra</i> seeds	G. Manikandan , P. Senthil Kumar*, A. Saravanan	Journal of Industrial and Engineering Chemistry Vol. , pp. 2018	10.1016/j.jiec.2018.01.028	4.421
15	Kinetic and Thermodynamic analysis for the	S.Suganya , P.Senthil Kumar*	Journal of Molecular Liquids Vol. 259, pp. 88-101	10.1016/j.molliq.2018.03.004	3.648

	redemption of effluents containing Solochrome Black T onto Powdered activated carbon: A validation of new Solid-Liquid phase equilibrium model		2018		
16	Comparison of experimental and calculated thermophysical properties of alumina/cupric oxide hybrid nanofluids	K.Sathishkumar, B.Chitra , Abhaiguru, Avinash, Tiju Thomas, Sneha Satjyan	Journal of Molecular Liquids , Vol. 244, pp. 469-477, 2017	10.1016/j.molliq.2017.09.035	3.648
17	Sonication Effects on Stability and Thermal Properties of Silica- Paraflu Based Nanofluids	B. Chitra , K. Sathish Kumar	Iranian Journal of Chemistry and Chemical Engineering , Vol.36, No.3, 2017, pp. 153-159.	-----	-----
18	Studies on influence of process parameters on hydrothermal catalytic liquefaction of microalgae (Chlorella vulgaris) biomass grown in wastewater	J. Arun S. J. Shreekanth R. Sahana M. S. Raghavi K. P. Gopinath D. Gnana Prakash	Bioresource Technology , Vol. 244, pp 963-968, 2017	10.1016/j.biortech.2017.08.048	5.651