

**Department of Chemical Engineering**  
**SSN College of Engineering, Chennai**

**List of Faculty Journal Publications**

**2011-2012**

Sl. No.	Title of papers	Author(s)	Name, volume number of Journal, page number and year of publication	DOI	Impact Factor
1	Thermodynamic, kinetic and equilibrium studies on phenol removal by use of cashew nut shell	<b>P. Senthil Kumar*</b> <b>K. Ramakrishnan,</b> S. Dinesh Kirupha, S. Sivanesan	<b>The Canadian Journal of Chemical Engineering</b> Vol. 89, pp. 284-291, 2011	10.1002/cjce.20396	1.356
2	Removal of methylene blue dye from aqueous solution by activated carbon prepared from cashew nut shell as a new low-cost adsorbent	<b>P. Senthil Kumar*</b> S. Ramalingam, <b>K. Sathishkumar</b>	<b>Korean Journal of Chemical Engineering</b> Vol. 28 (1), pp. 149-155, 2011	10.1007/s11814-010-0342-0	2.007
3	Removal of copper(II) ions from aqueous solution by adsorption using cashew nut shell	<b>P. SenthilKumar,</b> S. Ramalingam, V. Sathyaselvabala, S. Dinesh Kirupha, S. Sivanesan*	<b>Desalination</b> Vol. 266, pp. 63-71, 2011	10.1016/j.desal.2010.08.003	5.527
4	Adsorption behavior of nickel(II) onto cashew nut shell: Equilibrium, thermodynamics, kinetics, mechanism and process design	<b>P. Senthil Kumar,</b> S. Ramalingam, S. DineshKirupha, A.Murugesan, T.Vidhyadevi, S. Sivanesan*	<b>Chemical Engineering Journal</b> Vol. 167, pp. 122-131, 2011	10.1016/j.cej.2010.12.010	6.216
5	Removal of Pb(II), Cu(II) and Cd(II) ions from aqueous solution using polyazomethineami des: Equilibrium and Kinetic approach	A.Murugesan, L.Ravikumar, V. Sathyaselvabala, <b>P. Senthil Kumar,</b> T.Vidhyadevi, S. Dinesh Kirupha, S.. Kalaivani, S. Krithiga, S. Sivanesan*	<b>Desalination</b> Vol. 271, pp. 199-208, 2011	10.1016/j.desal.2010.12.029	5.527

6	Adsorption equilibrium studies on copper(II) ions removal by natural waste using non-linear approach	<b>P. Senthil Kumar</b> , V. Sathyaselvabala, S. Dinesh Kirupha, P. Vijayalakshmi, S. Sivanesan*	<b>Environmental Engineering and Management Journal</b> Vol. 10 (2), pp. 285-295, 2011	omicron.ch.tu iasi.ro/EEMJ /2013	1.008
7	Adsorption of dye from aqueous solution using silver wood sawdust carbon	<b>P. Senthil Kumar*</b> , R. Gayathri, S. Dinesh Kirupha, P. Rajkumar, J. Nandagopal, S. Sivanesan	<b>Environmental Engineering and Management Journal</b> Vol. 10 (3), pp. 451-460, 2011	omicron.ch.tu iasi.ro/EEMJ /2013	1.008
8	Adsorption of methylene blue dye from aqueous solution by agricultural waste: Equilibrium, thermodynamics, kinetics, mechanism and process design	<b>P. Senthil Kumar</b> , R.V. Abhinaya, K. GayathriLashmi, V. Arthi,R. Pavithra, V. Sathyaselvabala, S.DineshKirupha, S. Sivanesan*	<b>Colloid Journal</b> Vol. 73 (5), pp. 651-661, 2011	10.1134/S10 61933X11050 061	0.859
9	Lead(II) adsorption onto sulphuric acid treated cashew nut shell	<b>P. Senthil Kumar</b> , S. Ramalingam, R. V. Abhinaya, K.V. Thiruvengadaravi, P. Baskaralingam, S. Sivanesan*	<b>Separation Science &amp; Technology</b> Vol. 46 (15), pp. 2436-2449, 2011	10.1080/014 96395.2011.5 90174	1.106
10	Anticancer studies of drug encapsulated polyethylene terephthalate-Co-polylactic acid nanocapsules	<b>K. Sathish Kumar</b> , <b>P. Senthil Kumar</b> , S. Vijayalakshmi	<b>Journal of Pharmacy &amp; BioAllied Sciences</b> Vol. 3 (2), pp. 286-293, 2011	10.4103/097 5-7406.80772	----
11	Enhancement of Solubility and Mass Transfer Coefficient of Cinnamic Acid Through Hydrotropy	<b>D. Gnana Prakash</b> S. Thenesh Kumar N. Nagendra Gandhi	<b>Asian Journal of Chemistry</b> Vol. 24 (8), pp. 3582-3586, 2012	10.2478/pjct- 2013-0009	----
12	Green inhibitors: Anti corrosive propensity of Garcinia mangostana for Aluminium 1100	V.S. Gayathri, K. Yamuna <b>D. Gnana Prakash</b> R. Kameshwari R. Supraja, Ramesh Munusamy, Thiruvanan Venkatesan	<b>Solid State Phenomena</b> Vol. 185, pp. 109-112, 2012	10.4028/ww w.scientific.n et/SSP.185.1 09	----

13	Synthesis and kinetic studies on controlled release of 6-thioguanine entrapped polyethylene glycol-Co-polylactic acid polymer nanoparticles	<b>K.Sathish Kumar</b> , T.G. Ashwin Narayanan, P.Karthick Sarathy, S. Nagarjun, <b>K.Ramakrishnan</b>	<b>International Journal of Chemical Reactor Engineering</b> Vol. 9, pp. 1-14, 2011	10.2202/154 2-6580.2766	----
14	Studies on controlled release of gold/tuberculosis drug complex entrapped polyethylene terephthalate-co-polylactic acid polymer nanoparticles	<b>K.Sathish Kumar</b> , V.Selvaraj, M.Alagar	<b>International Journal of Nanoparticles</b> Vol. 4 (4), pp. 314-320, 2011	----	----
15	Chitosan nanoparticles as delivery systems for Thioguanine	<b>K.Sathish Kumar</b> , S.Vijayalakshmi, S.Vaishnavi, K.Rajasekar	<b>Journal of Pharmaceutical Research</b> Vol 5 (12), pp. 245- 250, 2012	74455126	----
16	Gold nanoparticles decorated polylactic acid-co-ethyl cellulose nanocapsules for 5-fluorouracil drug release	<b>K. Sathish Kumar</b>	<b>International Journal of Bio and Nanomaterials</b> , Vol.4 (1), pp. 12-20, 2012	10.1504/IJN BM.2012.048 210	0.038

## 2012-2013

Sl. No.	Title of papers	Author(s)	Name, volume number of Journal, page number and year of publication	DOI	Impact Factor
1	Two Step Biodiesel Production from Calophyllum Inophyllum Oil: Studies on Thermodynamic and Kinetic Modelling of Modified $\beta$ -Zeolite Catalysed Pre-treatment	V. Sathyaselvabala, <b>P. Senthil Kumar</b> , P. M. Periyaraman, S. DineshKirupha, V. Thangaraj, S. Sivanesan*	<b>The Canadian Journal of Chemical Engineering</b> Vol. 90, pp. 973-982, 2012	10.1002/cj ce.20603	1.356

2	Adsorption equilibrium, thermodynamics, kinetics, mechanism and process design of zinc(II) ions onto cashew nut shell	<b>P. Senthil Kumar</b> , S. Ramalingam, R.V. Abhinaya, S. Dinesh Kirupha, T. Vidhyadevi, S. Sivanesan*	<b>The Canadian Journal of Chemical Engineering</b> Vol. 90, pp. 1178-1185, 2012	10.1002/cjce.20588	1.356
3	Adsorption of metal ions onto the chemically modified agricultural waste	<b>P. Senthil Kumar</b> , S. Ramalingam, R. V. Abhinaya, S. Dinesh Kirupha, A. Murugesan, S. Sivanesan	<b>CLEAN – Water, Air, Soil</b> Vol. 40 (2), pp. 188-197, 2012	10.1002/clen.201100118	1.473
4	Removal of Cadmium(II) from aqueous solution by agricultural waste cashew nut shell	<b>P. Senthil Kumar</b> , S. Ramalingam, V. Sathyaselvabala, S. Dinesh Kirupha, A. Murugesan, S. Sivanesan	<b>Korean Journal of Chemical Engineering</b> Vol. 29 (6), pp. 756-768, 2012	10.1007/s11814-011-0259-2	2.007
5	Removal of free fatty acids in Pongamia Pinnata (Karanja) oil using divinylbenzene-styrene copolymer resins for biodiesel production	V.Sathyaselva Bala, K.V.Thiruvengadaravi, <b>P. Senthil Kumar</b> , M.P.Prem Kumar, V.Vinoth Kumar, S.Subash Kumar, M.Hari Kumar S.Sivanesan	<b>Biomass &amp; Bioenergy</b> Vol. 37, pp. 335-341, 2012	10.1016/j.biombioe.2011.12.032	3.219
6	Preparation and characterization of porous-CLEAs laccase: Robust biocatalysts for the decolorization of triphenyl methane and reactive dyes	V. Vinoth Kumar, M.P. Prem kumar, K.V. Thiruvengadaravi, P. Baskaralingam, <b>P. Senthil Kumar</b> , S. Sivanesan*	<b>Bioresource Technology</b> Vol. 119, pp. 28-34, 2012	10.1016/j.biortech.2012.05.078	5.651
7	Kinetics, mechanism, isotherm and thermodynamic analysis of adsorption of cadmium ions by surface-modified <i>Strychnos potatorum</i> seeds	<b>P. Senthil Kumar</b> , R. Gayathri, C. Senthamarai, M. Priyadharshini, P. Sebastina Anne Fernando, R. Srinath, V. Vinoth Kumar	<b>Korean Journal of Chemical Engineering</b> Vol. 29 (12), pp. 1752-1760, 2012	10.1007/s11814-012-0077-1	2.007
8	Kinetics and drug release studies on isoniazid encapsulated with PLA-Co-PEG/Gold Nanoparticles	C. Arun Raj, <b>P. Senthil Kumar</b> , K. Sathish Kumar	<b>International Journal of Pharmacy and Pharmaceutical Sciences</b> Vol. 4 (4), pp. 398-404, 2012	82826562	---

9	Cashew nut shell mops up heavy metals	<b>P. Senthil Kumar</b> , S. Ramalingam, R. V. Abhinaya, S. Dinesh Kirupha, A. Murugesan, S. Sivanesan	<b>Nature India</b> <b>Nature Journal</b> doi:10.1038/nindia.2012.25	10.1038/nindia.2012.25	---
10	Vibrational Spectroscopic and Optical Absorption Studies on PVA	J. Pavithra, S. Suriya, <b>D. Gnana Prakash</b> , P. Balaji Bhargav	<b>Advanced Materials Research</b> Vol. 584, pp. 546-550, 2012	10.4028/www.scientific.net/AMR.584.546	---
11	Chitosan-Gold nanoparticles as delivery systems for curcumin	<b>K. Satish Kumar</b> , <b>D. Gnana Prakash</b> , K. Mayilvaganan , C. Arunraj, S. Mohan Kumar	<b>International Journal of Pharmaceutical Sciences and Research</b> Vol. 3 (11), pp. 4533-4539, 2012	----	----
12	Delivery of protein using Nanoparticles	A.Robin, V.A.Veni, M.Thanigaivel, J.Madhusudhanan, <b>K.Sathish Kumar</b>	<b>International Journal of pharmacy and pharmaceutical sciences</b> Vol.4 (4), pp. 512-517, 2012	----	0.332
13	Fabrication, characterization and application of pectin degrading Fe <sub>3</sub> O <sub>4</sub> -SiO <sub>2</sub> nanobiocatalyst	Muthulingam Seenuvasan, Carlin Geor Malar, Sridhar Preethi, Nagarajan Balaji, Jeyaraj Iyyappan, Madhava Anil Kumar, <b>K. Sathish Kumar</b>	<b>Material science and Engineering C</b> , Vol..33, pp. 2273-2279, 2013	10.1016/j.msec.2013.01.050	4.164
14	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, <b>K. Sathish Kumar</b>	<b>Research Journal of Biotechnology</b> , Vol.8 (5), pp. 24-30, 2013	----	----
15	Biofunctionlaised nanoparticle for drug delivery	<b>K. Sathish Kumar</b> , J.Madhusudhanan, Thanigaivel, Robin Abraham, V.A.Veni	<b>Research Journal of Biotechnology</b> , Vol..8 (4), pp. 70-77, 2013	----	----

## 2013-2014

Sl. No.	Title of papers	Author(s)	Name, volume number of Journal, page number and year of publication	DOI	Impact Factor
1	Adsorption of Pb(II) ions onto surface modified <i>Guazuma ulmifolia</i> seeds and Batch adsorber design	P. Rajkumar, <b>P. Senthil Kumar</b> , S. Dinesh Kirupha, T. Vidhyadevi, J. Nandagopal, S. Sivanesan	<b>Environmental Progress &amp; Sustainable Energy</b> Vol. 32 (2), pp. 307-316 2013	10.1002/ep.1 1632	1.672
2	Adsorption behavior of methylene blue dye onto surface modified <i>Strychnos potatorum</i> seeds	C. Senthamarai, <b>P. Senthil Kumar</b> , M. Priyadharshini, P. Vijayalakshmi, V. Vinoth Kumar, P. Baskaralingam, K.V. Thiruvankadaravi, S. Sivanesan	<b>Environmental Progress &amp; Sustainable Energy</b> Vol. 32 (3), pp. 624-632, 2013	10.1002/ep.1 1673	1.672
3	Adsorption of methylene blue dye onto surface modified cashew nut shell	<b>P. Senthil Kumar</b> , R.V. Abhinaya, K. GayathriLashmi, V. Arthi, M. Priyadharshini, S. Sivanesan*	<b>Environmental Engineering and Management Journal</b> Vol. 13 (3), pp. 545-556, 2014	omicron.ch.tu iasi.ro/EEMJ /2014	1.008
4	Removal of Cu(II) ions from aqueous solution by adsorption onto activated carbon produced from <i>Guazuma ulmifolia</i> seeds	P. Rajkumar, <b>P. Senthil Kumar</b> , M. Priyadharshini, S. Dinesh Kirupha, P. Baskaralingam, S. Sivanesan	<b>Environmental Engineering and Management Journal</b> Vol. 13 (4), pp. 905-914, 2014	omicron.ch.tu iasi.ro/EEMJ /2014	1.008
5	Adsorption kinetics, mechanism, isotherm and thermodynamic analysis of copper ions onto the surface modified agricultural waste	<b>P. Senthil Kumar</b> , C. Senthamarai, A. Durgadevi	<b>Environmental Progress &amp; Sustainable Energy</b> Vol. 33 (1), pp. 28-37, 2014	10.1002/ep.1 1741	1.672

6	Adsorption isotherms, kinetics and mechanism of Pb(II) ions removal from aqueous solution using chemically modified agricultural waste	<b>P. Senthil Kumar</b> , C. Senthamarai, A.S.L. Sai Deepthi, R. Bharani	<b>The Canadian Journal of Chemical Engineering</b> Vol. 91, pp. 1950-1956, 2013	10.1002/cjce. 21784	1.356
7	Adsorption of lead(II) ions from simulated wastewater using natural waste: A kinetic, thermodynamic and equilibrium study	<b>P. Senthil Kumar*</b>	<b>Environmental Progress &amp; Sustainable Energy</b> Vol. 33 (1), pp. 55-64, 2014	10.1002/ep.1 1750	1.672
8	Adsorption of basic dye onto raw and surface modified agricultural waste	<b>P. Senthil Kumar*</b> , M. Palaniyappan, M. Priyadharshini, A.M. Vignesh, A. Thanjiappan, P. Sebastina Anne Fernando, R. Tanvir Ahmed, R. Srinath	<b>Environmental Progress &amp; Sustainable Energy</b> Vol. 33 (1), pp. 87-98, 2014	10.1002/ep.1 1756	1.672
9	Process optimization studies of Congo red dye adsorption onto cashew nut shell using response surface methodology	<b>P. Senthil Kumar*</b> , S. Ramalingam	<b>International Journal of Industrial Chemistry</b> Vol. 17 (4), pp. 1-10, 2013	10.1186/222 8-5547-4-17	----
10	Adsorption of Cu(II), Cd(II) and Ni(II) ions from aqueous solution by unmodified <i>Strychnos potatorum</i> seeds	<b>P. Senthil Kumar*</b> , A.S.L. Sai Deepthi, R. Bharani, C. Prabhakaran	<b>European Journal of Environmental and Civil Engineering</b> Vol. 17 (4), pp. 293- 314, 2013	10.1080/196 48189.2013.7 85983	0.897
11	Adsorption of dye onto raw and surface modified tamarind seeds: Isotherms, Process Design, Kinetics, and Mechanism	<b>P. Senthil Kumar*</b> , R. Sivaranjane, U. Vinothini, M. Raghavi, K. Rajasekar, <b>K. Ramakrishnan</b>	<b>Desalination and Water Treatment</b> Vol. 52 (13-15), pp. 2620-2633, 2014	10.1080/194 43994.2013.7 92016	1.631

12	Kinetic and Equilibrium Studies on the Biosorption of Textile Dyes onto <i>Plantago ovata</i> seeds	M.P. Premkumar V. Vinoth Kumar, <b>P. Senthil Kumar</b> , P. Baskaralingam, V. Sathyaselvabala, T. Vidhyadevi, S. Sivanesan	<b>Korean Journal of Chemical Engineering</b> Vol. 30 (6), pp. 1248-1256, 2013	10.1007/s11814-013-0049-0	2.007
13	Adsorption of Zn(II) ions from aqueous environment by surface modified <i>Strychnos potatorum</i> seeds, a low cost adsorbent	<b>P. Senthil Kumar*</b>	<b>Polish Journal of Chemical Technology</b> Vol. 15 (3), pp. 35-41, 2013	10.2478/pjct-2013-0041	0.725
14	Effect of temperature on the adsorption of methylene blue dye onto the sulphuric acid treated orange peel	<b>P. Senthil Kumar*</b> , P. Sebastina Anne Fernando, R. Tanvir Ahmed, R Srinath, M. Priyadharshini, A.M. Vignesh, A. Thanjiappan	<b>Chemical Engineering Communications</b> Vol. 201, pp. 1526-1547, 2014	10.1080/00986445.2013.819352	1.297
15	Magnetic Nanoparticles as Versatile Carriers for Immobilization of Laccase	D. Ramya, K.R. Varsha, V. Ranjitha, <b>P. Senthil Kumar</b> , V. Vinoth Kumar	<b>Research Journal of Engineering &amp; Technology</b> Vol. 4 (4), pp. 279-283, 2013	-----	----
16	A new electrode reactor with in-built recirculation mode for the enhancement of methylene blue dye removal from the aqueous solution: comparison of adsorption, electrolysis and combined effect	<b>P. Senthil Kumar*</b> , S. Maria Jacob Stani Raja, K. Mahathevan, L. Dinesh Kumar, C. Prabhakaran	<b>Korean Journal of Chemical Engineering</b> Vol.31 (2), pp. 276-283, 2014	10.1007/s11814-013-0209-2	2.007
17	Studies on various mode of electrochemical reactor operation for the treatment of distillery effluent	Modepalli Susree , P. Asaithambi , <b>R.Saravanathamizhan</b> Manickam Matheswaran	<b>Journal of Environmental Chemical Engineering.</b> , Vol. 1, pp. 552-558, 2013	10.1016/j.jec.e.2013.06.021	-----
18	Experimental Study to enhance the thermal conductivity of nanofluid	<b>B.Chitra</b> , <b>K.SathishKumar</b> , D.Manoj, S.Mohan Kumar	<b>Research Journal of Engineering and Technology</b> , Vol 4 (4), pp. 272-278, 2013	----	-----



19	Comparative Drug Release Studies of 5-Fluorouracil and 6-Thioguanine Entrapped in Peg-Co-Pla/Gold Nanocapsules	<b>K. Sathishkumar</b> , K. Rajasekar, P.P.Selvam, Sai Madhusudhanan	<b>Chemical Science Review and Letters</b> , 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	Removal and recovery Ni(II) ions from synthetic wastewater using surface modified <i>Strychnos potatorum</i> seeds: Experimental optimization and Mechanism	K. Anbalagan, <b>P. Senthil Kumar*</b> , K. Sangita Gayatri, S. Shahul Hameed, M. Sindhuja, C. Prabhakaran, R. Karthikeyan	<b>Desalination and Water Treatment</b> Vol. 53 (1), pp. 171-182, 2015	10.1080/19443994.2013.837008	1.631
2	Removal of fluoride from aqueous media by magnesium oxide coated nanoparticles	N. Minju, K. Venkat Swaroop, K. Haribabu, V. Sivasubramanian, <b>P. Senthil Kumar</b>	<b>Desalination and Water Treatment</b> Vol.53, pp. 2905-2914, 2015	0.1080/19443994.2013.868837	1.631
3	Binding of Zn(II) ions to Chitosan-PVA blend in aqueous environment: Adsorption kinetics and equilibrium studies	T. Anitha, <b>P. Senthil Kumar*</b> , <b>K. Sathish Kumar</b>	<b>Environmental Progress &amp; Sustainable Energy</b> Vol.34 (1), pp. 15-22, 2015	10.1002/ep.11943	1.672
4	<i>Sargassum wightii</i> , a marine algae is the source for the production of algal oil, bio-oil and application in the dye wastewater treatment	<b>P. Senthil Kumar*</b> , J. Pavithra, S. Suriya, M. Ramesh, K. Anish Kumar	<b>Desalination and Water Treatment</b> Vol.55 (5), pp. 1342-1358, 2015	10.1080/19443994.2014.924032	1.631

5	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, <b>P. Senthil Kumar*</b> , C. Prabhakaran, V. Aditya	<b>Journal of Taiwan Institute of Chemical Engineers</b> Vol.45, pp. 2957-2968, 2014	10.1016/j.jtice.2014.08.016	4.217
6	Comparison of Biodiesel Production from Macro and Micro Algae	G. Manikandan, <b>P. Senthil Kumar*</b> , R. Prakalathan	<b>International Journal of ChemTech Research</b> Vol.6 (9), pp. 4143-4147, 2014	----	----
7	Ultrasound assisted saccharification of saw dust for the production of bioethanol	T. Sivakumar, <b>P. Senthil Kumar*</b>	<b>International Journal of ChemTech Research</b> Vol.6 (9), pp. 4386-4390, 2014	----	----
8	Synthesis, characterization and antibacterial activity of nano zero-valent iron impregnated cashew nut shell	D. Prabu, R. Parthiban, <b>P. Senthil Kumar</b> , S. Karthick Raja Namasivayam	<b>International Journal of Pharmacy and Pharmaceutical Sciences</b> Vol.7 (1), pp. 139-141, 2015	----	----
9	Adsorptive separation of phenol from aqueous solution using nano zero-valent iron impregnated cashew nut shell	D. Prabu, R. Parthiban, <b>P. Senthil Kumar*</b>	<b>International Journal of Pharma and Bio Sciences</b> Vol. 6 (2), pp. 129-140, 2015	----	----
10	Removal of Cr(VI) ions using Fe-loaded chitosan carbonized rice husk composite beads (Fe-CCRCB): Experiment and quantum chemical calculations	S. Sugashini, K.M. Meera Sheriffa Begum, <b>R. Anantharaj</b>	<b>Journal of Molecular Liquids</b> , Vol. 208, pp. 380-387, 2015	10.1016/j.molliq.2015.04.048	3.648

11	Adsorption kinetic, equilibrium and thermodynamic investigations of Zn(II) and Ni(II) ions removal by poly(azomethinet hioamide) resin with pendent chloro-benzylidene ring	<b>P. Senthil Kumar*</b> , H. Ethiraj, Anitha Venkat, N. Deepika, S. Nivedha, T. Vidhyadevi, L. Ravikumar, S. Sivanesan	<b>Polish Journal of Chemical Technology</b> Vol. 17 (3), pp. 29-38, 2015	10.1515/pjct -2015-0057	0.725
12	Novel adsorbent from agricultural waste (cashew nut shell) for methylene blue dye removal: Optimization by Response Surface Methodology	S. Ramalingam, <b>P. Senthil Kumar*</b> ,	<b>Water Resources and Industry</b> Vol.11, pp. 64-70, 2015	10.1016/j.wri.2015.07.002	----
13	Adsorptive removal of Pb(II) ions from polluted water by newly synthesized chitosan - polyacrylonitrile blend: Equilibrium, kinetic, mechanism and thermodynamic approach	T. Anitha, <b>P. Senthil Kumar*</b> , K. Sathish Kumar, B. Ramkumar, S. Ramalingam	<b>Process Safety and Environmental Protection</b> Vol. 98, pp. 187-197 2015	10.1016/j.psep.2015.07.012	2.905
14	Neural network model for condition monitoring of wear and film thickness in a gearbox	C. Sreepradha, A. Krishna Kumari, A. Elaya Perumal, Rames C. Panda, <b>K.Harshabardhan</b> , M. Aribalagan	<b>Neural Computing and Applications</b> Vol. 24 (7-8), pp. 1943-1952, 2014	10.1007/s00521-013-1427-6	2.505
15	Carbon Footprint Analysis of an Educational Institution	P.M. Sivaram, N. Gowdhaman, D. Ebin Davis, <b>M. Subramanian</b>	<b>Applied Mechanics and Materials</b> Vol. 787, pp. 187-191, 2015	---	---

16	RSM and ANN modeling for electro-oxidation of simulated wastewater using CSTER	R. Saravanathamizhan, <b>Kilaru Harsha Vardhan,</b> <b>D. Gnana Prakash</b> N.Balasubramanian	<b>Desalination and Water Treatment</b> Vol. 55(6), pp. 1445-1452 2015	10.1080/19443994.2014.925833	1.631
17	Heat transfer Effects for two different impellers using Newtonian and Non-Newtonian fluids in an Agitated Vessel	N.Fedal Castro , <b>B.Chitra,</b> <b>R.Pushpalatha,</b> S.Sudalai	<b>International Journal of ChemTech Research</b> Vol.7 (6), pp. 2802-2808, 2014-2015	----	----
18	Characterization, Analysis and Application of Fabricated Fe <sub>3</sub> O <sub>4</sub> -Chitosan-Pectinase nanobiocatalyst	Muthulingam Seenuvasan, <b>K.Sathish Kumar,</b> Carlin Geor Malar, Sridhar Preethi, Nagarajan Balaji, Madhava Anil Kumar	<b>Applied Biochemistry and Biotechnology,</b> Vol. 172 (5), pp. 2706-2719, 2014	10.1007/s12010-014-0725-5	1.751
19	Optimization of medium components for antibacterial metabolite production from Marine Streptomyces SP.PUA2 using Response Surface Methodology	P.Shekar, <b>K.Sathish Kumar,</b> S.Anuradha, M.Radhakrishnan, M.Balagurunathan	<b>International Journal of Pharmacy and Pharmaceutical sciences,</b> Vol. 6(7), pp. 475-480, 2014	----	----
20	Microwave assisted nanohydrogels for drug delivery systems	G. Karthiga Devi, <b>K. Sathish Kumar,</b> K. Arivalagan	<b>International Journal of Pharmacy and Pharmaceutical Sciences</b> 6(4), pp. 118-123, 2014	----	----
21	Response surface estimation and canonical quantification for pectin degrading Fe <sub>3</sub> O <sub>4</sub> -SiO <sub>2</sub> nanobiocatalyst fabrication	Muthulingam Seenuvasan, <b>K.Sathish Kumar,</b> Madhava Anil Kumar, Jeyaraj Iyyapan, John rini Gnana Suganthi	<b>International Journal of ChemTech Research,</b> Vol. 6, pp. 3618-3627, 2014	----	----
22	Antibacterial efficacy of Iron oxide nanoparticles against biofilms on different biomaterial surfaces	Monica Thukkaram, Soundarya Sitaram, <b>Sathish Kumar Kannaiyan,</b> Guruprakash Subbiahdoss	<b>International Journal of Biomaterials,</b> Article ID 716080, pp. 1-6, 2014 (2014)	<u>10.1155/2014/716080</u>	----

23	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, <b>Kannaiyan Sathish Kumar</b>	<b>Journal of the Taiwan Institute of Chemical Engineers</b> , Vol. 45, pp. 1485-1489, 2014	10.1016/j.jtice.2013.11.002	4.217
24	Quantification of Lovastatin produced by <i>Monascus purpureus</i>	<b>A. Seenivasan</b> , S.N. Gummadi, T. Panda, Thomas Theodore	<b>The Open Biotechnology Journal</b> , Vol. 9, pp. 6-13, 2015	10.2174/1874070701509010006	----
25	Ocimum sanctum extract coating on biomaterial surfaces to prevent bacterial adhesion and biofilm growth	R. Sivaramakrishnan, S. Guruprakash, <b>D. Gnanaprakash</b> , R. Subashini	<b>Asian Journal of Pharmaceutical and Clinical Research</b> , Vol. 8(3), pp. 229-233, 2015	----	----
26	Biosynthesis of silver nanoparticles using Garcinia mangostana fruit extract and their antibacterial, antioxidant activity	R. Subashini, S. Sruthi, P. Sindhuja, S. Santhini, <b>D. Gnanaprakash</b>	<b>International Journal of Current Microbiology and Applied Sciences</b> , Vol. 4(1), pp. 944-952, 2015	----	----
27	A rapid and green route to synthesis of silver nanoparticles from Plectranthus Barbatulus (Coleus Forskohlii) root extract for antimicrobial activity	D. Manikandan, <b>D. Gnanaprakash</b> , N. Nagendra Gandhi	<b>International Journal of ChemTech Research</b> , Vol. 6(9), pp. 4391-4396, 2014	----	----
28	Optimization of parameters for dye removal by electro-oxidation using Taguchi Design	M. Nandhini, B. Suchithra, <b>R. Saravanathamizhan</b> , <b>D. Gnanaprakash</b> ,	<b>Journal of Electrochemical Science and Engineering</b> , Vol. 4(4), pp. 227-234, 2014	10.5599/jese.2014.0056	----
29	Hydrotropic extraction of xanthones from mangosteen pericarp	<b>D. Gnanaprakash</b> , P. Pradeep, Sai Madhusudanan, V. Aditya	<b>Advanced Materials Research</b> , Vol. 984-985, pp. 372-376, 2014	10.4028/www.scientific.net/AMR.984-985.372	----

## 2015-2016

Sl. No.	Title of papers	Author(s)	Name, volume number of Journal, page number and year of publication	DOI	Impact Factor
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, <b>P. Senthil Kumar*</b> , K. Sangita Gayatri, S. Shahul Hameed, M. Sindhuja, C. Prabhakaran	<b>Desalination and Water Treatment</b> Vol.56 (11), pp. 2948-2965, 2015	10.1080/19443994.2014.966279	1.631
2	Enhanced photocatalytic decolorization of reactive red by sonocatalysis using TiO <sub>2</sub> catalyst: Factorial design of experiments	V. Mathivanan, S. Geetha Manjari, R.Ineya, R.Saravanathamizhan <b>P. Senthil Kumar</b> , K. Ramakrishnan	<b>Desalination and Water Treatment</b> Vol. 57 (15), pp. 7120-7129, 2016	10.1080/19443994.2014.983182	1.631
3	Experimental study on parameter estimation and mechanism for the removal of turbidity from groundwater and synthetic water using <i>Moringa oleifera</i> seed powder	<b>P. Senthil Kumar</b> , V.M. Centhil, R. Kameshwari, M. Palaniyappan, V. Durga Kalaivani, K. Grace Pavithra	<b>Desalination and Water Treatment</b> Vol. 57 (12), pp. 5488-5497, 2016	10.1080/19443994.2014.1003977	1.631
4	Study of adsorption of Cu(II) ions from aqueous solution by surface-modified Eucalyptus globulus seeds in a fixed-bed column: experimental optimization and mathematical modeling	<b>P. Senthil Kumar</b> , A.S.L. Sai Deepthi, R. Bharani, G. Rakkesh	<b>Research on Chemical Intermediates</b> Vol.41 (11), pp. 8681-8698, 2015	10.1007/s11164-015-1921-9	1.639
5	Adsorption of copper ions onto nano scale zero-valent iron impregnated cashew nut shell	D. Prabu, R. Parthiban, <b>P. Senthil Kumar*</b> Nupur Kumari, Paharika Saikia	<b>Desalination and Water Treatment</b> Vol.57 (14), pp. 6487-6502, 2016	10.1080/19443994.2015.1007488	1.631

6	Adsorption of an anionic dye onto native and chemically modified agricultural waste	M.P. Premkumar K. Sowmya, <b>P. Senthil Kumar</b> , V. Vinothkumar, V. Sathyaselvabala, D. Anuradha, S. Sivanesan	<b>Environmental Engineering and Management Journal</b> (Article in press) 2015	omicron.ch.t uiasi.ro/EEM J/2015	1.008
7	Liquid-Liquid equilibrium (LLE) data for ternary mixtures of {[EMIM][EtSO <sub>4</sub> ] + thiophene/benzothio phene + n-hexadecane}and {[EMIM][MeSO <sub>3</sub> ] + thiophene/benzothio phene + n-hexadecane} at 298.15K	<b>Anantharaj</b> R.B.Ambedkar	<b>Journal of Molecular Liquids</b> , Vol. 212, pp. 372-381, 2015	10.1016/j.m olliq.2015.09. 003.	3.648
8	Adsorption of toxic Cr(VI) ions from aqueous solution by sulphuric acid modified <i>Strychnos potatorum</i> seeds in batch and column studies	K. Anbalagan, <b>P. Senthil Kumar</b> , R. Karthikeyan	<b>Desalination and Water Treatment</b> Vol. 57 (27), pp. 12585-12607, 2016	10.1080/194 43994.2015. 1049965	1.631
9	Biosorption of lead(II) ions onto nano-sized chitosan particle blended Polyvinyl Alcohol (PVA): Adsorption Isotherms, Kinetics and equilibrium studies	T. Anitha, <b>P. Senthil Kumar</b> , K. Sathish Kumar, K. Sriram, J. Feroze Ahmed,	<b>Desalination and Water Treatment</b> Vol. 57 (29), pp. 13711-13721, 2016	10.1080/194 43994.2015. 1061951	1.631
10	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, <b>P. Senthil Kumar</b> , B. Preetha	<b>Desalination and Water Treatment</b> Vol. 57 (31), pp. 14530-14543, 2016	10.1080/194 43994.2015. 1064034	1.631

11	Ultrasonic assisted activated biomass (fishtail palm <i>Caryota urens</i> seeds) for the sequestration of copper ions from the wastewater	A. Saravanan, <b>P. Senthil Kumar</b> , R. Mugilan	<b>Research on Chemical Intermediates</b> Vol. 42, pp. 3117-3146, 2016	10.1007/s11164-015-2201-4	1.639
12	Biochemical quantification and antibacterial properties of <i>Corallocarpus epigaeus</i>	M. Jayaseelan, T. Arumugam, <b>P. Senthil Kumar</b> , N.Thangaraj	<b>Bioscience Discovery</b> , Vol.7 (1), pp. 11-16, 2016	----	3.42
13	Performance study on sequestration of copper ions from contaminated water using newly synthesized high effective chitosan coated magnetic nanoparticles	Gerard Neeraj, Santhana Krishnan, <b>P. Senthil Kumar*</b> , Kaliyur Ravi Shriaishvarya, V. Vinoth Kumar	<b>Journal of Molecular Liquids</b> , Vo.214, pp. 335-346, 2016	10.1016/j.molliq.2015.11.051	3.648
14	Removal of toxic zinc from water / wastewater using eucalyptus seeds activated carbon: Non-linear regression analysis	<b>P. Senthil Kumar*</b> , A. Saravanan, K. Anish Kumar, R. Yashwanth, S. Visvesh	<b>IET Nanobiotechnology</b> Vo.10 (4), pp. 244-253, 2016	10.1049/iet-nbt.2015.0087	1.50
15	Simultaneous Interaction between Similar or Dissimilar Structure of Aromatic Sulfur and Aromatic Nitrogen Compounds with Imidazolium based Ionic Liquid Using Quantum Chemical Method.	<b>R. Anantharaj</b> , Jewaratnam Jegalakshimi;	<b>Asia Pacific Journal of Chemical Engineering</b> , Vol. 10 (6), pp. 904-922, 2015	10.1002/apj.1928.	0.836
16	Ethylsulphate-based Ionic Liquids in the Liquid-Liquid Extraction of Pyrrole and Pyridine from Isododecane at 298.15K	NurshakirinHazim Chan, Hanee Farzana Hizaddin, <b>R. Anantharaj</b> , Tamal Banerjee.	<b>Chemical Product and Processes Modeling</b> , pp. 1-11, 2015	10.1515/cppm-2014-0027	---



17	New UV-Curable Prepolymer: Synthesis, Characterization, and Kinetics Analysis	<b>V. Jaikumar,</b> D. Kumar	<b>International Journal of Polymer Analysis and Characterization</b> Vol. 20, pp. 481–490, 2015	10.1080/1023666X.2015.1050629	2.47
18	Effect of Camphorquinone with 2, 2-Bis-[4-(2-hydroxy-3-methacryloxyprop-1-oxy) phenyl]propane in dental coating	<b>V. Jaikumar,</b> D. Kumar	<b>International Journal of ChemTech Research</b> Vol.8 (6), pp 828-833 2015	----	---
19	Performance Evaluation of Tergitol NP-7 and Triton X-114 for the Removal of Crystal Violet Using Cloud-point Extraction.	D.Duraimurugan, L. Mathuri, J. Indulekha, <b>R.Anantharaj,</b> A.Arunagiri	<b>Chemical &amp; Biochemical Engineering Quarterly,</b> Vol. 30, pp.189-198 2016	10.15255/CA BEQ.2014.21 43	0.911
20	Experimental densities and viscosities of binary mixture of 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide or glycerol with sulfolane and their molecular interaction by COSMO-RS.	Mohd Azlan Kassim, Nor Asrina Sairi, Rozita Yusoff, <b>R.Anantharaj,</b> Yatimah Alias, Mohamed Kheireddine Aroua	<b>Thermochemical Acta,</b> Vol. 639, pp. 130-147, 2016	10.1016/j.tc a.2016.07.00 5	2.236
21	Characterization of terephthalic acid monomer recycled from post-consumer PET polymer bottles	Sankaranarayanan Ayyakudi Ravichandran, Vignesh Pernamallur Rajan, Pritham Velamur Aravind, <b>A. Seenivasan,</b> <b>D. Gnana Prakash,</b> <b>K.Ramakrishnan</b>	<b>Macromolecular Symposia,</b> Vol. 361, pp. 30 -33, 2016	10.1002/mas y.201400269	----
22	Ocimum basilicum l. essential oil coated biomaterial surface prevent bacterial adhesion and biofilm growth	Sivarama Krishnan Rajaraman, Mallika Jainu, <b>D. Gnana Prakash</b>	<b>Asian Journal of Pharmaceutical and Clinical Research,</b> Vol. 9, pp. 379-384, 2016	----	----

23	Kinetic and optimisation studies on ultrasonic intensified photoautotrophic ethanol production from <i>Synechocystis</i> sp.	Balakrishnan Naveena, Patricia Armshaw, J. Tony Pembroke, <b>K.P. Gopinath</b>	<b>Renewable Energy</b> Vol. 95, pp. 522-530 2016	10.1016/j.renene.2016.04.061	4.357
24	HPTLC fingerprint profile of antibacterial compound produced from forest soil <i>Streptomyces</i> SFA5	P. Shekar, <b>K. Sathish Kumar</b> , V. Gopikrishnan, M. Radhakrishnan	<b>Bangladesh Journal of Pharmacology</b> Vol. 11, pp. 00-00, 2016	10.3329/bjp.v11i1.25478	1.052
25	Multi walled carbon nanotubes for desalination: performance evaluation and comparative studies	Pradeep Panneerselvam, Pritham Velamur Aravind, Sai Madhusudanan, K.R. Rohit Narayanan, S. Siddarth, R. Pavan Kumar, <b>K. Sathish Kumar</b>	<b>International Journal of Innovation and Scientific Research</b> Vol. 23 (1), pp. 226-232, 2016	----	----
26	Development of an Inhaled Sustained Release Dry Powder Formulation of Salbutamol Sulphate, an Antiasthmatic Drug	C. Kumaresan, <b>K. Sathish Kumar</b>	<b>Indian Journal of Pharmaceutical Sciences</b> Vol. 78 (1), pp. 136-142 2016	----	0.762
27	Purification and characterization of <i>Pleurotus ostreatus</i> oxido-reductive laccase produced through solid state fermentation using <i>Musa cavendish</i> as a solid support	Nagarajan Balaji, <b>Kannaiyan Sathish Kumar</b>	<b>Research Journal of Biotechnology</b> Vol. 11 (5), pp. 95-101, 2016	----	----
28	Antiproliferative activity of yellow pigment from forest soil <i>Streptomyces</i> sp SFA5 against breast cancer cell line MCF-7	S. Ponnuswamy, S. <b>Kannaiyan</b> , G. Venugopal, R. Manikkam	<b>Bangladesh Journal of Pharmacology</b> Vol. 10, pp. 652-653 2015	10.3329/bjp.v10i3.24034	1.052

29	Feasibilities of using Power Ultrasound and Microwave Treatment in Reducing CO <sub>2</sub> Capture Energy Demand	V. Nandhini, B. Suchitra, R. Surendiran, <b>J. Dhanalakshmi,</b> <b>B. Ambedkar</b>	<b>International Journal of Advanced Technology in Engineering and Science</b> Vol. 3(1), pp. 711-716, 2015	----	----
----	---	---	--	------	------

## 2016-2017

Sl. No.	Title of papers	Author(s)	Name, volume number of Journal, page number and year of publication	DOI	Impact Factor
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, <b>K. Sathish Kumar,</b> <b>R. Parthiban,</b> K. Kalishwaralal	<b>Microbial Pathogenesis</b> 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, <b>P. Senthil Kumar*</b> , A. Saravanan, C. Ravikumar, <b>V. Jaikumar</b>	<b>Sustainable Materials and Technologies,</b> Vol. 11, pp. 1-11, 2017	10.1016/j.suamat.2016.11.001	----
3	Effect of pH, in 19holera 19sose and initial dye concentration on the removal of azo dye mixture under aerobic conditions	<b>Jagannathan Krishnan,</b> Anthony Arvind Kishore, Athreya Suresh, B. Madhumeetha, <b>D. Gnana Prakash</b>	<b>International Biodeterioration &amp; Biodegradation,</b> Vol. 119, pp. 16-27, 2017	10.1016/j.ibiod.2016.11.024	2.962

4	Batch biodegradation of toluene by mixed microbial consortia and its kinetics	Ravi Rajamanickam, Kauselya Kaliyamoorthi, Narendiran Ramachandran, Divya Baskaran, <b>Jagannathan Krishnan</b>	<b>International Biodeterioration &amp; Biodegradation</b> , Vo.119, pp. 282-288, 2017	10.1016/j.ibiod.2016.11.014	2.962
5	Biosorption of hexavalent chromium from aqueous solution using raw and acid treated biosorbent prepared from <i>Lantana camara</i> fruit	K. Nithya, Asha Sathish, <b>P. Senthil Kumar*</b> , T. Ramachandran	<b>Desalination and Water Treatment</b> Vo.57 (52), pp. 25097-25113, 2016	10.1080/19443994.2016.1145605	1.631
6	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, <b>P. Senthil Kumar*</b> , A. Saravanan, V. Vinoth Kumar	<b>Desalination and Water Treatment</b> Vo.57 (52), pp. 25114-25139, 2016	10.1080/19443994.2016.1149111	1.631
7	Sequestration of Pb(II) and Ni(II) ions from aqueous solution using microalga <i>Rhizoclonium hookeri</i> : Adsorption thermodynamics, kinetics and equilibrium studies	S. Suganya, A. Saravanan, <b>P.Senthil Kumar*</b> , M.Yashwanthraj, P. Sundar rajan K. Kayalvizhi	<b>Journal of Water Reuse and Desalination</b> Vol. 7, pp. 214-227, 2017	10.2166/wrd.2016.200	0.686
8	Nano scale zero-valent iron impregnated agricultural waste as an effective biosorbent for the removal of heavy metal ions from wastewater	<b>P. Senthil Kumar*</b> , A. Saravanan, P. Sundar rajan, M.Yashwanthraj	<b>Textiles and Clothing Sustainability</b> Vol. 2 (3), pp. 1-11, 2016	10.1186/s40689-016-0014-5	---

9	Green synthesis of novel silver nanocomposite hydrogel based on sodium alginate as an efficient bio-sorbent for the dye wastewater treatment: Prediction of isotherm and kinetic parameters	G. Karthiga Devi, <b>P. Senthil Kumar*</b> , K. Sathish Kumar	<b>Desalination and Water Treatment</b> Vo.57 (57), pp. 27686-27699, 2016	10.1080/19443994.2016.1178178	1.631
10	Influence of ultrasonication on preparation of novel material for heavy metal removal from water/ wastewater	A. Saravanan, <b>P. Senthil Kumar*</b> , P. Sundar rajan, Abishek S Narayan, Abhishek Dutta	<b>Korean Journal of Chemical Engineering</b> Vol. 33 (9), pp. 2716-2731, 2016	10.1007/s11814-016-0109-3	2.007
11	Ultrasonic modified corn pith for the sequestration of dye from aqueous solution	R. Jothirani, <b>P. Senthil Kumar*</b> , A. Saravanan, Abishek S Narayan and Abhishek Dutta	<b>Journal of Industrial and Engineering Chemistry</b> Vol. 39, pp. 162-175, 2016	10.1016/j.jiec.2016.05.024	4.421
12	Synthesis and characterization of metallic nanoparticles impregnated onto activated carbon using leaf extract of <i>Mukia maderasapatna</i> : Evaluation of antimicrobial activities	A. Saravanan, <b>P. Senthil Kumar*</b> , G. Karthiga Devi, T. Arumugam	<b>Microbial Pathogenesis</b> Vol. 97, pp. 198-203, 2016	10.1016/j.micpath.2016.06.019	2.009
13	Review on nano adsorbents: A solution for heavy metal removal from wastewater	T. Vinni Novi, V. Vinoth Kumar*, <b>P. Senthil Kumar*</b> , Charles Christy, Sundar Sai Lavanyaa, Dhanya Vishnu, A. Saravanan, V. Vasanth Kumar S. Sivanesan	<b>IET Nanobiotechnology</b> Vol. 11, pp. 213-224 2017	10.1049/iet-nbt.2015.0114	1.50

14	Isolation and Identification of <i>Vibrio c22holera</i> and <i>Vibrio parahaemolyticus</i> from prawn ( <i>Penaeus monodon</i> ) seafood : Preservation strategies	P.R. Yaashikaa, A. Saravanan, <b>P. Senthil Kumar*</b>	<b>Microbial Pathogenesis</b> Vol. 99, pp. 5-13 2016	10.1016/j.micpath.2016.07.014	2.009
15	Synthesis of nano-sized chitosan blended Polyvinyl alcohol for the removal of Eosin Yellow dye from aqueous solution	T. Anitha, <b>P. Senthil Kumar*</b> , K. Sathish Kumar	<b>Journal of Water Process Engineering</b> Vol. 13, pp. 127-136 2016	10.1016/j.jwpe.2016.08.003	----
16	Higher adsorption capacity of <i>Spirulina platensis</i> alga for Cr(VI) ions removal : Parameter optimization, equilibrium, kinetic and thermodynamic predictions	E. Gunasundari, <b>P. Senthil Kumar*</b>	<b>IET Nanobiotechnology</b> Vol. 11, pp. 317-328 2017	10.1049/iet-nbt.2016.0121	1.50
17	Adsorptive potential of dispersible chitosan coated iron-oxide nanocomposites towards the elimination of arsenic from aqueous solution	Gerard Neeraj, Santhana Krishnan, <b>P. Senthil Kumar</b> , Hubert Cabana, V.Vinoth Kumar	<b>Process Safety and Environmental Protection</b> Vol. 104, pp. 185-195, 2016	10.1016/j.psep.2016.09.006	2.905
18	Removal of turbidity from washing machine discharge using Strychnos Potatorum seeds: Parameter optimization and mechanism prediction	<b>P. Senthil Kumar*</b> K.N. Vaibhav, Shiv Rekhi, Akshay Thyagarajan	<b>Resource Efficient Technologies,</b> Vol. 2, pp. S171-S176 2016	10.1016/j.refit.2016.09.006	---
19	Rediscovery of <i>Crotalaria rigida</i> (Leguminosae)—Rare and endemic legume of Southern India, Tamil Nadu	N. Dhatchanamoorthy T. Arumugam, <b>P. Senthil Kumar</b>	<b>Phytotaxa,</b> Vol. 278 (3), pp. 297-300, 2016	10.11646/phytotaxa.278.3.11	1.797

20	Surface adsorption of poisonous Pb(II) ions from water using chitosan functionalized magnetic nanoparticles	C. Femina Carolin, A. Saravanan, <b>P. Senthil Kumar*</b> , P. Sundar Rajan, V. Vinoth Kumar	<b>IET Nanobiotechnology</b> Vol. 11 (4), pp. 433-442, 2017	10.1049/iet-nbt.2016.0166	1.50
21	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, <b>P. Senthil Kumar K.P.Gopinath</b>	<b>Microbial Pathogenesis</b> Vol.102, pp. 166-172 2017	10.1016/j.micpath.2016.12.002	2.009
22	Application of $\beta$ -MnO <sub>2</sub> Nanorods as catalyst in single step production of biodiesel from Palm oil	V. SathyaSelvaBala <b>P. Senthil Kumar</b> , S. Dinesh Kirupha, S. Sivanesan*	<b>Energy Sources, Part A: Recovery, Utilization, and Environmental Effects</b> Vol. 38 (14), pp. 2104-2110, 2016	10.1080/15567036.2010.516318	0.60
23	Heat transfer enhancement using single base and double base nanofluids	<b>B. Chitra , K. Sathish Kumar</b>	<b>Journal of Molecular Liquids</b> Vol. 221, pp. 1128–1132 2016	10.1016/j.molliq.2016.06.084	3.648
24	Experimental investigation on rice husk ash as cement replacement on concrete production	Josephin Alex, <b>J. Dhanalakshmi, B. Ambedkar</b>	<b>Construction and Building Materials</b> Vol. 127, pp. 353–362 2016	10.1016/j.conbuildmat.2016.09.150	3.169
25	A novel nano-sized calcium hydroxide catalyst prepared from clam shells for the photodegradation of methyl red dye	R. Badri Narayan, R. Goutham, B. Srikanth, <b>K.P. Gopinath</b>	<b>Journal of Environmental Chemical Engineering</b> (Article in press) 2016	10.1016/j.jecce.2016.12.004	---
26	Microwave assisted fast pyrolysis of corn cob, corn stover, saw dust and rice straw: Experimental investigation on bio-oil yield and high heating values	C. Ravikumar*, <b>P. Senthil Kumar*</b> , S.K. Subhashni , P.V.Tejaswini, V.Varshini	<b>Sustainable Materials and Technologies</b> Vol.11, pp. 19-27 2017	10.1016/j.susmat.2016.12.003	---

27	Computation of adsorption parameters for the removal of dye from wastewater by microwave assisted sawdust: Theoretical and experimental analysis	S. Suganya, <b>P. Senthil Kumar*</b> , A. Saravanan, P. Sundar Rajan, C. Ravikumar	<b>Environmental Toxicology and Pharmacology</b> Vol.50, pp. 45-57 2017	10.1016/j.eta p.2017.01.01 4	2.313
28	A simplified model for evaluating best biodiesel production method: Fuzzy analytic hierarchy process approach	K. Anish Kumar, <b>P. Senthil Kumar*</b> , Sai Madhusudanan, Vignesh Pasupathy, P.R. Vignesh, A. R. Sankaranarayanan	<b>Sustainable Materials and Technologies</b> Vol.12, pp. 18-22 2017	10.1016/j.su smat.2017.0 3.002	---
29	Screening of novel actinobacteria and characterization of the potential isolates from mangrove sediment of south coastal India	T. Arumugam, <b>P. Senthil Kumar*</b> , R. Kameshwar, K. Prapanchana	<b>Microbial Pathogenesis</b> Vol. 107, pp. 225-233 2017	10.1016/j.mi cpath.2017.0 3.035	2.009
30	Fabrication and characterization of a nanocomposite hydrogel for combined photocatalytic degradation of a mixture of malachite green and fast green dye	Gaurav Sharma, Zeid Abdullah ALothman, Amit Kumar, Shweta Sharma, <b>P. Senthil Kumar</b> , Mu. Naushad	<b>Nanotechnology for Environmental Engineering</b> , Vol. 2 (4), pp. 1-7, 2017	10.1007/s41 204-017- 0014-y	---
31	Sequestration of toxic Cr(VI) ions from industrial wastewater using waste biomass: A review	A. Saravanan, <b>P. Senthil Kumar*</b> M.Yashwanthraj	<b>Desalination and Water Treatment</b> Vol.68, pp. 245-266 2017	10.5004/dwt. 2017.20322	1.631
32	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, <b>P.Senthil Kumar*</b> , C. Femina Carolin, S. Sivanesan	<b>Journal of Hazardous, Toxic, and Radioactive Waste</b> Vol.21(3), pp. 1-24 2017	10.1061/(AS CE)HZ.2153- 5515.000035 5	0.74
33	Conversion of waste plastics into low-emissive hydrocarbon fuels through catalytic depolymerisation in a new laboratory scale batch reactor	<b>P. Senthil Kumar*</b> , M. Bharathikumar, C. Prabhakaran, S. Vijayan K. Ramakrishnan	<b>International Journal of Energy and Environmental Engineering</b> Vol.8 (2), pp. 167-173, 2017	10.1007/s40 095-015- 0167-z	---



34	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*, <b>P. Senthil Kumar*</b> , A. Saravanan	<b>Desalination and Water Treatment</b> Vol. 72, pp. 418-427 2017	10.5004/dwt.2017.20694	1.631
35	Enhancement of Mechanical Properties and Durability of the Cement Concrete by RHA as Cement Replacement: Experiments and Modeling	<b>B. Ambedkar</b> , Josephin Alex, <b>J. Dhanalakshmi</b>	<b>Construction &amp; Building Materials</b> , Vol. 148, pp. 167 - 175 2017	10.1016/j.conbuildmat.2017.05.022	3.169
36	Beneficiation of Indian Coals: Process Intensification by Power Ultrasound	A. Joseph Wilson, M. S. Ken Saroven, D. Murugesh, <b>B. Ambedkar*</b> , <b>J. Dhanalakshmi</b>	<b>International Journal of Emerging Research in Management and Technology</b> Vol. 6(4), pp. 156-160 2017	---	---
37	Recent advancements in supporting materials for immobilised photocatalytic applications in waste water treatment	B. Srikanth, R. Goutham, R. Badri Narayan, A. Ramprasath, <b>K.P. Gopinath*</b> , A.R. Sankaranarayanan	<b>Journal of Environmental Management</b> Vol. 200, pp. 60-78 2017	10.1016/j.jenvman.2017.05.063	4.010
38	Efficient Techniques for the Removal of Toxic Heavy Metals from Aquatic Environment: A Review	C. Femina Carolin, <b>P. Senthil Kumar*</b> , G. Janet Joshiba, A. Saravanan, Mu. Naushad	<b>Journal of Environmental Chemical Engineering</b> Vol. 5, pp. 2782-2799, 2017	10.1016/j.jecce.2017.05.029	----
39	Sorption of Cu(II) ions by nano-scale zero valent iron supported on rubber seed shell	D. Prabu, R. Parthiban, <b>P. Senthil Kumar*</b> , A. Saravanan, Reni John, Tani Titus	<b>IET Nanobiotechnology</b> Vol. 11, Issue No. 6, pp. 714-724 2017	10.1049/iet-nbt.2016.0224	1.50

40	Modelling and analysis of packed bed column for the effective removal of zinc from aqueous solution using dual surface modified biomass	A. Saravanan, <b>P. Senthil kumar*</b> , M. Yaswanthraj	<b>Particulate Science and Technology</b> , (Article in press) pp. 2017	10.1080/02726351.2017.1329243	0.707
41	An insight into the Prediction of Biosorption Mechanism, and Isotherm, Kinetic and Thermodynamic Studies for Ni(II) ions Removal from Aqueous Solution using Acid Treated Bio-sorbent: the Lantana camara fruit	K. Nithya, Asha Sathish, <b>P. Senthil Kumar</b> , T. Ramachandran	<b>Desalination and Water Treatment</b> Vol. 80, pp. 276-287 2017	10.5004/dwt.2017.20912	1.631
42	Construction Of Active Bio-Nanocomposite By Inseminated Metal Nanoparticles Onto Activated Carbon: Probing To Antimicrobial Activity	S. Suganya, <b>P. Senthil Kumar*</b> , A. Saravanan	<b>IET Nanobiotechnology</b> Vol. 11, Issue No. 6, pp. 746-753 2017	10.1049/iet-nbt.2016.0234	1.50
43	Green synthesis of metal nanoparticles loaded ultrasonic assisted <i>Spirulina platensis</i> using algal extract and their antimicrobial activity	E. Gunasundari, <b>P. Senthil Kumar*</b> , C. Femina Carolin, T. Arumugam, A. Saravanan	<b>IET Nanobiotechnology</b> Vol. 11, Issue No. 6, pp. 754-758 2017	10.1049/iet-nbt.2016.0223	1.50
44	Functional group assisted green synthesized superparamagnetic nanoparticles for the rapid removal of hexavalent chromium from aqueous solution	K. Nithya, Asha Sathish, <b>P. Senthil Kumar</b> , T. Ramachandran	<b>IET Nanobiotechnology</b> Vol. 11, Issue No. 7, pp. 852-860 2017	10.1049/iet-nbt.2016.0259	1.50
45	Addition of Rice Husk Ash as Supplementary Cementitious	Josephin Alex, J. Dhanalakshmi, <b>B. Ambedkar*</b> and	<b>Research Journal of Pharmaceutical, Biological and Chemical Sciences</b> ,	---	---

	Material (SCM) in Concrete for Sustainable Development	R. Anantharaj,	Vol. 8,, pp. 325-334 2017		
46	Treatment of Synthetic Turbid Water using Tamarind seeds at atmospheric conditions	Judith Emlliah Christy S S, <b>R. Anantharaj,</b> <b>B. Ambedkar,</b> <b>J. Dhanalakshmi</b>	<b>Research Journal of Pharmaceutical, Biological and Chemical Sciences</b> Vol. 8, pp. 352-359 2017	---	---
47	Prediction of salting coefficient for Acetone-Methanol-Salt System using Scaled Particle Theory	Deepak Kumar B, Aravind S, Ayyappan S, <b>J. Dhanalakshmi</b> <b>B. Ambedkar</b>	<b>Research Journal of Pharmaceutical, Biological and Chemical Sciences</b> Vol. 8, pp. 335-341 2017	---	---
48	Cement Replacement by RHA in Concrete for Sustainable Development..	Josephin Alex, <b>J. Dhanalakshmi,</b> <b>B. Ambedkar,</b> <b>R. Anantharaj.</b>	<b>Research Journal of Pharmaceutical, Biological and Chemical Sciences,</b> Vol. 8, pp. 325 - 334 2017	---	---
49	Investigations on nanostructured LiMnPO4 particles for cathodic material in Li-ion battery applications.	M Manonmani, <b>V Jaikumar*</b> , <b>K Jagannathan</b>	<b>Research Journal of Pharmaceutical, Biological and Chemical Sciences,</b> Vol. 8, pp.1-7 2017	---	---
50	Nitrogen and Sulphur Doped TiO <sub>2</sub> for Photodegradation of Phenol under visible light.	<b>Jagannathan Krishnan*</b> , Ravi Rajamanickaman, <b>Jaikumar Vasudevan</b>	<b>Research Journal of Pharmaceutical, Biological and Chemical Sciences,</b> Vol. 8, pp.360-364 2017	---	---
51	Biodegradation Kinetics of Azo Dye Mixture: Substrate Inhibition Modeling	<b>Jagannathan Krishnan,</b> Anthony Arvind Kishore, Athreya Suresh, Akshay Krishna Murali, <b>Jaikumar Vasudevan</b>	<b>Research Journal of Pharmaceutical, Biological and Chemical Sciences,</b> 8(3S), pp.365-375 2017	---	---

52	Pulasan Peel for the Removal of Reactive Orange	<b>Jagannathan Krishnan*</b> , Perumal Kumar, <b>Jaikumar Vasudevan</b>	<b>Research Journal of Pharmaceutical, Biological and Chemical Sciences</b> Vol. 8, pp.376-387 2017	---	---
----	---	---	---	-----	-----

## 2017-2018

Sl. No.	Title of papers	Author(s)	Name, volume number of Journal, page number and year of publication	DOI	Impact Factor
1	Removal of Toxic Cr(VI) ions from Tannery Industrial Wastewater Using a Newly Designed Three-phase Three-dimensional Electrode Reactor	K. Grace Pavithra, <b>P. Senthil Kumar*</b> , C. Femina Carolin, A. Saravanan	<b>Journal of Physics and Chemistry of Solids</b> 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, <b>P. Senthil Kumar*</b>	<b>Journal of Industrial and Engineering Chemistry</b> Vol. 56, pp. 129-144, 2017	10.1016/j.ji ec.2017.07. 005	4.421
3	A review on analytical methods and treatment techniques of pharmaceutical wastewater	A. Annam Renita, <b>P. Senthil Kumar*</b> , S. Srinivas, S. Priyadharshini, M. Karthika	<b>Desalination and Water Treatment</b> Vol. 87, pp. 160-178, 2017	10.5004/dw t.2017.2131 1	1.631
4	Photo-Catalytic Degradation of Acid Blue 113 using Doped Zinc oxide (ZnO) Nano-Particles	G. S. Aravind, S. AfalHabeeb, P. T. Mohan Kumar, <b>D. Balaji</b>	<b>International Journal of Modern Science and Technology</b> Vol. 2 (7), pp. 262-266, 2017 ISSN: 2456-0235	---	---
5	Potential Application of Redox Mediators	B. Suganya, S. Vishal Bellie, <b>R. Parthiban,</b>	<b>ChemBioEng Reviews</b> Vol. 4 (6), pp. 1-9, 2017	---	---

	and Metabolic Uncouplers in Environmental Research-A Review	D. Swaminathan			
6	Optimization of media components for production of antimicrobial compound by <i>Brevibacillus brevis</i> EGS9 isolated from mangrove ecosystem	T. Arumugam, <b>P. Senthil Kumar*</b> ,	<b>Journal of Microbiological Methods</b> Vol. 142, pp. 83-89 2017	10.1016/j.mimet.2017.09.010	1.790
7	Treatment of Municipal Wastewater using <i>Scenedesmus</i> abundans : Studies on saccharification of grown biomass using ultrasound assistance	T. Siva Kumar, <b>P. Senthil Kumar*</b>	<b>Desalination and Water Treatment</b> Vol. 89, pp. 94-100, 2017	10.5004/dwt.2017.21373	1.631
8	Sources and impacts of pharmaceutical components in wastewater and its treatment process: A Review	K.Grace Pavithra, <b>P. Senthil Kumar*</b> , P.Sundar Rajan, A. Saravanan, Mu. Naushad	<b>Korean Journal of Chemical Engineering</b> Vol. 34, pp. 2787-2805, 2017	10.1007/s1814-017-0255-2	2.007
9	Hybrid synthesis of novel material through acid modification followed ultrasonication to improve adsorption capacity for zinc removal	A. Saravanan, <b>P. Senthil Kumar*</b> , A. Annam Renita	<b>Journal of Cleaner Production</b> Vol. 172, pp. 92-105 2018	10.1016/j.jclepro.2017.10.109	5.715
10	Chitosan as a biosorbent for adsorption of Iron from fracking wastewater	Aditya R. Kaveeshwar, Melanie Sanders, <b>P. Senthil Kumar</b> , Dilip Depan, S. Ramalingam	<b>Polymers for Advanced Technologies</b> Vol. 29, pp. 961-969 2018	10.1002/pat.4207	1.907
11	Fast kinetics and high adsorption capacity of green extract capped superparamagnetic iron oxide	K. Nithya, Asha Sathish, <b>P. Senthil Kumar</b> , T. Ramachandran	<b>Journal of Industrial and Engineering Chemistry</b> Vol. 59, pp. 230-241 2018	10.1016/j.jiec.2017.10.028	4.421

	nanoparticles for the adsorption of Ni(II) ions				
12	Chitosan anchored Zinc Oxide nanocomposite as modified electrochemical sensor for the detection of Cd (II) ions	G. Padmalaya, B.S. Sreeja, <b>P. Senthil Kumar*</b> , M. Arivanandhan	<b>Desalination and Water Treatment</b> Vol. 97, pp. 295-303 2017	10.5004/dwt.2017.21612	1.631
13	Carbon sphere: Synthesis, characterization and elimination of toxic Cr(VI) ions from aquatic system	<b>P. Senthil Kumar*</b> , R. Sivaranjane, P. Sundar Rajan, A. Saravanan	<b>Journal of Industrial and Engineering Chemistry</b> Vol. 60, pp. 307-320 2018	10.1016/j.jiec.2017.11.017	4.421
14	Influence of ultrasonic waves on preparation of active carbon from coffee waste for the reclamation of effluents containing Cr(VI) ions	S. Suganya, <b>P. Senthil Kumar*</b>	<b>Journal of Industrial and Engineering Chemistry</b> Vol. 60, pp. 418-430 2018	10.1016/j.jiec.2017.11.029	4.421
15	Treatment of dye wastewater using an ultrasonic aided nanoparticle stacked activated carbon: kinetic and isotherm modelling	<b>P. Senthil Kumar*</b> , Sunita J. Varjani, S. Suganya	<b>Bioresource Technology</b> Vol. 250, pp. 716-722 2017	10.1016/j.biortech.2017.11.097	5.651
16	Pecan Shell based Activated Carbon for Removal of Iron (II) from Fracking Wastewater: Adsorption Kinetics, Isotherm and Thermodynamic Studies	Aditya Rajeev Kaveeshwar, <b>P. Senthil Kumar</b> , Emmanuel D. Revellame, Daniel D. Gang, Mark E. Zappi, S. Ramalingam*	<b>Process Safety and Environmental Protection</b> Vol. 114, pp. 107-122 2018	10.1016/j.prosep.2017.12.007	2.905
17	Isolation, Structure	T. Arumugam, <b>P. Senthil Kumar*</b>	<b>Microbial Pathogenesis</b> Vol. 115, pp. 146-153	10.1016/j.micpath.2017.	2.009

	elucidation and anticancer activity from <i>Brevibacillus brevis</i> EGS 9 that combats Multi Drug Resistant actinobacteria	R.V. Hemavathy, V. Swetha, R. Karishma Sri	2018	12.061	
18	Intensified degradation of pharmaceutical effluents by Novel Aerobic Iron-swarf activated molecular oxygen in the presence of ascorbic acid	S. Nachiappan, <b>P. Senthil Kumar*</b> , K. P. Gopinath, V. Rajinikanth, R. Baskaran, A. Babu Ponnusami	<b>Desalination and Water Treatment</b> Vol. 102, pp. 273-279 2018	10.5004/dwt.2018.21846	1.631
19	Nano-Zero Valent Iron Impregnated Cashew Nut Shell: A Solution to Heavy Metal Contaminated Water / Wastewater	<b>P. Senthil Kumar*</b> , Akshaya S Nair, R. Ananya, A. Saravanan	<b>IET Nanobiotechnology</b> (Accepted for publication) pp. 2018	10.1049/iet-nbt.2017.0264	1.50
20	Isolation, Characterization and Purification of Xylanase producing Bacteria from Sea Sediment	<b>P. Senthil Kumar*</b> , P.R. Yaashikaa, A. Saravanan	<b>Biocatalysis and Agricultural Biotechnology</b> Vol. 13, pp. 299-303 2018	10.1016/j.biocab.2018.01.007	-----
21	Modelling and analysis on the removal of methylene blue dye from aqueous solution using physically/chemically modified <i>Ceiba pentandra</i> seeds	G. Manikandan, <b>P. Senthil Kumar*</b> , A. Saravanan	<b>Journal of Industrial and Engineering Chemistry</b> Vol. , pp. 2018	10.1016/j.jiec.2018.01.028	4.421
22	Theoretical and experimental investigation on the removal of oil spill by selective sorbents	N. Pavithra, R. Abhaiguru, U. Avinash, D. Gnana Prakash, <b>P. Senthil Kumar*</b>	<b>Journal of Industrial and Engineering Chemistry</b> Vol. , pp. 2018	10.1016/j.jiec.2018.01.031	4.421
23	Mass transfer and thermodynamic	J. Aravind Kumar, <b>P. Senthil Kumar*</b> ,	<b>Desalination and Water Treatment</b>		1.631

	analysis on the removal of naphthalene from aqueous solution using oleic acid modified palm shell activated carbon	D. Joshua Amarnath, C. Sai Kaushik, M. Edwin Varghese, A. Saravanan	(Accepted for publication) pp. 2018		
24	Kinetic and Thermodynamic analysis for the redemption of effluents containing Solochrome Black T onto Powdered activated carbon: A validation of new Solid-Liquid phase equilibrium model	S.Suganya, <b>P.Senthil Kumar*</b>	<b>Journal of Molecular Liquids</b> Vol. 259, pp. 88-101 2018	10.1016/j.molliq.2018.03.004	3.648
25	Experimental Investigation on Bisphenol A and its Leaching Properties in Various Repositories: Real Time Analysis	V. Vishal, <b>P. Senthil Kumar*</b> , V. Prasanna, B. Sudhan	<b>Desalination and Water Treatment</b> (Accepted for publication) pp. 2018		1.631
26	Comparison of experimental and calculated thermophysical properties of alumina/cupric oxide hybrid nanofluids	<b>K.Sathishkumar,</b> <b>B.Chitra,</b> Abhaiguru, Avinash, Tiju Thomas, Sneha Satjyan	<b>Journal of Molecular Liquids,</b> Vol. 244, pp. 469-477, 2017	10.1016/j.molliq.2017.09.035	3.648
27	Sonication Effects on Stability and Thermal Properties of Silica- Paraflu Based Nanofluids	<b>B. Chitra,</b> <b>K. Sathish Kumar</b>	<b>Iranian Journal of Chemistry and Chemical Engineering,</b> Vol.36, No.3, 2017, pp. 153-159.	-----	-----
28	Potential applications of ionic liquids (IL) for the treatment of synthetic turbid water (STW)	S.S.JudithEmiliah, <b>B. Ambedkar,</b> <b>R. Aanantharaj,</b> <b>J. Dhanalakshmi,</b>	<b>Journal of Molecular Liquid</b> Vol. 256, pp. 121 -126, 2018	10.1016/j.molliq.2018.02.030	3.648



29	Reactivity, Stability & Thermodynamic Feasibility of H <sub>2</sub> O <sub>2</sub> /H <sub>2</sub> O at Graphite Cathode: Application of Quantum Chemical Calculations in MFCs	Anam Asghar, Abdul Aziz Abdul Raman, Wan MohdAshri Wan Daud, <b>R Anantharaj</b>	<b>Environmental Progress &amp; Sustainable Energy</b> (Article in press)	10.1002/ep.12806	1.672
30	A DFT method analysis for formation of hydrogen rich gas from acetic acid by steam reforming process	Md.Arafat Hossain, J.Jewaratnam, <b>R. Anantharaj</b> , J.N.Sahu, P.Ganesan,	<b>Fuel</b> Vol. 212, pp. 49 – 60, 2018	10.1016/j.fuel.2017.09.098	4.601
31	Interaction energy of pyrrole and pyridine with 1-ethyl-3-methylimidazolium ethyl sulphate	<b>R. Anantharaj</b>	<b>Journal of Molecular Liquids</b> Vol. 231, pp. 56–63, 2017	10.1016/j.molliq.2017.01.082	3.648
32	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 <b>K. P. Gopinath</b> <b>D. Gnana Prakash</b>	<b>Bioresource Technology</b> , Vol. 244, pp 963-968, 2017	10.1016/j.biortech.2017.08.048	5.651