

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

**List of Research Scholar's Conference Publications**

**2012-2013**

<b>Sl. No.</b>	<b>Title of papers</b>	<b>Author(s)</b>	<b>Name of Conference proceedings and year of publication</b>
1	Nanoparticle as a carrier for effective drug delivery	J.Madhusudhanan, <b>K. Sathish Kumar</b>	International conference on Bioengineering-2013 (ICE-2013), Rajalakshmi Engineering College, Thandalam. 2 <sup>nd</sup> - 4 <sup>th</sup> Jan-2013
2	Delivery of pDNA as nanoparticle using polycation	J.Madhusudhanan, <b>K. Sathish Kumar</b> , A.Robin, V.A.Veni	International conference on Bioengineering-2013 (ICE-2013), Rajalakshmi Engg. College, Thandalam. 2 <sup>nd</sup> - 4 <sup>th</sup> Jan-2013

**2013-2014**

<b>Sl. No.</b>	<b>Title of papers</b>	<b>Author(s)</b>	<b>Name of Conference proceedings and year of publication</b>
1	Ultrasound assisted saccharification of lignocellulosic wastes – saw dust and teak wood leaves for the production of bioethanol	<b>T. Sivakumar</b> , P. Senthil Kumar	International conference on Recent advancements in Chemical, environmental and Energy engineering, 26-27 <sup>th</sup> Feb 2014, SSN College of Engineering, Chennai
2	Production of Biodiesel from microalgae – A review	<b>G. Manikandan</b> , P. Senthil Kumar	International conference on Recent advancements in Chemical, environmental and Energy engineering, 26-27 <sup>th</sup> Feb 2014, SSN

			College of Engineering, Chennai
3	Invivo drug delivery for cancer therapy using gold nanoparticle	<b>J.Madhusudhanan</b> K.Sathish Kumar P.Arivazhagi, J.Balavignesh	International conference- ICANMEET-2013, Sathyabama University, Chennai, 24 <sup>th</sup> – 26 <sup>th</sup> Jul- 2013
4	Delivery of protein using nanoparticle	<b>J.Madhusudhanan</b> K. Sathish Kumar	Third National conference-GENE GENERA-2013, Madha Engineering College, Kundrathur. 13 <sup>th</sup> – 14 <sup>th</sup> Sep-2013
5	Invivo drug delivery for cancer therapy using gold nanoparticle	<b>J.Madhusudhanan</b> K.Sathish Kumar P.Arivazhagi, J.Balavignesh	IEEE Xplore digital liobrary- INSPEC Accession Number:13798209 “Advanced Nanomaterials and Emerging Engineering Technologies (ICANMEET), 2013 <i>International Conference</i> <i>on</i> , vol., no., pp.729,732, 24-26 July 2013 doi: 10.1109/ICANMEET.201 3.6609399” - Published

## 2014-2015

Sl. No.	Title of papers	Author(s)	Name of Conference proceedings and year of publication
1	Potential of nano-zero valent iron impregnated cashew nut shell for congo red dye removal from aqueous solution: Application of different adsorption isotherms and thermodynamic studies for congo red dye adsorption	<b>D. Prabu,</b> P. Senthil Kumar, R. Parthiban	International Conference on Green Technology for Environmental Pollution Prevention and Control, 27 – 29 <sup>th</sup> September 2014, Organized by Department of Chemical Engineering, NIT Trichy.
2	Bioethanol from red algae: <i>Kappaphycusal varezii</i>	<b>T. Sivakumar</b> S. Vigneswari P. Senthil Kumar	1 <sup>st</sup> One Day National Conference on Clean Technology for

			Sustainable Environment (CTSE), SSN College of Engineering, Chennai, 05-12-2014
3	Dual approach: bioremediation and biofuel from algae-a review	<b>G. Manikandan</b> P. Senthil Kumar	1 <sup>st</sup> One Day National Conference on Clean Technology for Sustainable Environment (CTSE), SSN College of Engineering, Chennai, 05-12-2014

### 2015-2016

Sl. No.	Title of papers	Author(s)	Name of Conference proceedings and year of publication
1	Synthesis, characterization and application of nano scale zero-valent iron impregnated biomass towards the removal of copper ions from wastewater	P. Senthil Kumar <b>A. Saravanan</b>	International Conference on Nanomaterials and Nanotechnology (NANO-15) organized by Centre For Nanoscience and Technology, K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu, India In Association World Class University (WCU), GIST, South Korea, 07-12-2015 to 10-12-2015
2	Nano scale zero-valent iron impregnated agricultural waste as an effective biosorbent for the removal of heavy metal ions from wastewater	P. Senthil Kumar <b>A. Saravanan</b>	International Conference on Advances in Functional, Smart and Innovative Textiles organized by PSG IAS, Coimbatore, India, 10-12-2015 to 12-12-2015
3	Removal of heavy metal ions from aqueous environment using chitosan magnetic nanoparticles	G. Jane Joshiba, <b>A. Saravanan</b> P. Senthil Kumar	5th International Conference on Technology Development on Agriculture, Energy and Environmental Engineering for Green World, organized by

			Vivekanandha College of Engineering for Women, Tiruchengode, 18-02-2016 to 19-02-2016
4	Enhanced Removal Of Pb(II) Ions From Wastewater Using Magnetic Nano-Particles Derived From Chitosan: Characterization, Isotherm, Kinetic And Thermodynamic Studies	P. Senthil Kumar, <b>A.Saravanan</b> , P.Sundar rajan, V.Vinoth Kumar	International Conference on Energy, Environment & Engineering (ICEEE 2016), Organized by Department of Chemistry & Mechanical Engineering, Coimbatore Institute of Technology, 29-02-2016 to 02-03-2016
5	Adsorption of heavy metal ions from wastewater using activated carbon prepared from fishtail palm Caryota urens seeds: Isotherm, Kinetic and Thermodynamic studies	M.Yashwanthraj, P. Senthil Kumar, <b>A.Saravanan</b>	International Conference on Advances in Bio Technology, Civil & Mechanical Science – ICABCMS'16, Selvam College of Technology, 17-18 <sup>th</sup> March 2016
6	Enhanced removal of Pb(II) ions using magnetic nano-particles derived from chitosan: Characterization, isotherm and kinetic studies	P. Senthil Kumar <b>A. Saravanan</b> P. Sundar rajan	National Conference on Applications of Recent Methodologies in Exploring Revolutionary Biopharmaceuticals for Life Style Diseases – A Multidimensional Outlook, Karpaga Vinayaga College of Engineering and Technology, 04-03-2016 & 05-03-2016

## 2016-2017

Sl. No.	Title of papers	Author(s)	Name of Conference proceedings and year of publication
1	Removal of methylene blue dye from wastewater using ultrasonic assisted activated biomass	<b>A. Saravanan</b> , P. Senthil Kumar	5 <sup>th</sup> International Conference on Sustainable Utilization of Tropical Plant Biomass: Bioproducts, Biocatalysts & Biorefinery (SutB4),

			Department of Agricultural Microbiology, Tamil Nadu Agricultural University, Coimbatore, 17-18 <sup>th</sup> November 2016
2	A study on effect of different bulking agents on composting of mixed organic waste (vegetable and food waste) of MSW	<b>S. Suganya,</b> P. Senthil Kumar	National Conference on Sustainable Energy and Environment (ChemSEE) Chennai, Sathyabama University, 22 - 23 September, 2016 ISBN: 978-93-83-409-26-6
3	Highly effective removal of heavy metal ions from aqueous solution using surface modified agricultural wastes	<b>A. Saravanan,</b> P. Senthil Kumar	National Conference on Sustainable Energy and Environment (ChemSEE) Chennai, Sathyabama University, 22 - 23-September, 2016 ISBN: 978-93-83-409-26-6
4	Adsorption behaviour of Cr(VI) ions onto spirulina platensis alga: parameter optimization, equilibrium, kinetic and thermodynamic predictions	<b>E. Gunasundari,</b> P. Senthil Kumar	National Conference on Sustainable Energy and Environment (ChemSEE) Chennai, Sathyabama University, 22 - 23-September, 2016 ISBN: 978-93-83-409-26-6
5	Removal of Heavy Metal Ions from Wastewater Using Ultrasonic Assisted Agricultural Waste	<b>A. Saravanan,</b> P. Senthil Kumar R. Parthiban	National Conference On Technologies To Eradicate And Control Industrial Pollution [TECIP-2016], Annamalai University, 21-22 October 2016
6	Efficient Removal of Pb(II) Metal Ions from Waste Water Using Chitosan Magnetic Nano Particles	<b>G. Janet Joshiba,</b> <b>A. Saravanan,</b> P. Senthil Kumar	National Conference On Technologies To Eradicate And Control Industrial Pollution [TECIP-2016], Annamalai University, 21-22 October 2016
7	Bio-Oil Production by Hydrothermal Liquefaction	<b>C. Femina Carolin,</b> P. Senthil Kumar	National Conference On Technologies To

	of Algal Biomass Grown in Wastewater Using Bubble Column Photo Bioreactor		Eradicate And Control Industrial Pollution [TECIP-2016], Annamalai University, 21-22 October 2016
8	Study on removal of chromium from aqueous solution by adsorption on <i>Spirulina platensis</i> Alga	<b>E.Gunasundari,</b> P. Senthil Kumar	3 <sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering, SSN College of Engineering, 01-03 December 2016
9	Prediction and interpretation of adsorption parameters for the sequestration of methylene blue dye from aqueous solution using microwave assisted corncob activated carbon	<b>A. Saravanan,</b> P. Senthil Kumar	3 <sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering, SSN College of Engineering, 01-03 December 2016
10	Adsorption isotherm, kinetics and thermodynamic analysis of Cu(II) ions onto ultrasonic assisted <i>Spirulina platensis</i>	<b>E.Gunasundari,</b> P. Senthil Kumar	3 <sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering, SSN College of Engineering, 01-03 December 2016
11	Radical Scavenging and Anti-Apoptotic Activity of <i>Chlorella Pyrenoidosa</i> against MT – 29 Cell Line	D. Gnana Prakash, K.P. Gopinath, <b>J. Arun</b>	International Conference on Sustainable Utilization of Tropical Plant Biomass: Bioproducts, Biocatalysts and Biorefinery, Tamil Nadu Agricultural University, Coimbatore. 17 – 18 November 2016
12	Treatment of municipal waste water in a novel hybrid loop air lift photo bioreactor using microalgae <i>Scenedesmus abundans</i> and hydrothermal liquefaction of biomass to produce bio-oil	K.P.Gopinath, <b>R. Sundar Rajan,</b> <b>Femina Carolin,</b> D.Gnanaprakash	International Conference on Sustainable Utilization of Tropical Plant Biomass: Bioproducts, Biocatalysts and Biorefinery, Tamil Nadu Agricultural University, Coimbatore. 17 – 18 November 2016
13	Enhance removal of heavy metal ions from aqueous	<b>A. Saravanan,</b> <b>P. Senthil Kumar</b>	International Conference on Adaptive Technologies

	solution using surface modified <i>Caryota urens</i> seeds		for Sustainable Growth, Paavai Engineering College, 17-18 March 2017
14	Removal of copper (II) metal ions from aqueous solution by using algal biomass	<b>E. Gunasundari,</b> P. Senthil Kumar	International Conference on Adaptive Technologies for Sustainable Growth, Paavai Engineering College, 17-18 March 2017

## 2017-2018

Sl. No.	Title of papers	Author(s)	Name of Conference proceedings and year of publication
1	Enhancement of heat transfer rate using Hybrid Nanofluids – A Review	<b>Chitra Boobalan,</b> Parthiban Rangasamy, Sainiwetha Saikrishnan, Solai Natarajan	32 <sup>nd</sup> Indian Engineering Congress, The Institution of Engineers (India), ISBN: 978-93-86724-29-8, 2017
2	Thermodynamic properties of Deep Eutectic Solvent and Ionic Liquids mixture at temperatures from 293.15 K to 343.15 K.	<b>R.S.Achsah,</b> S.Shyam, N.Mayuri,, R. Anantharaj	9th National Conference on Thermo – Physical Properties, 2017
3	Theoretical Analysis of Ionic Liquids Thermodynamic Properties for CO <sub>2</sub> Absorption Study	J. Dhanalakshmi*, B. Ambedkar, <b>P. Muthumari,</b> Sai P.S.T	Bioprocessing India 2017 (BPI-2017) at IIT Guwahati from December 9th-11th, 2017.
4	Screening of Ionic Liquids for CO <sub>2</sub> Capture Process using COSMO-RS Model	J. Dhanalakshmi*, B. Ambedkar, <b>P. Muthumari</b>	Conference on Advances in Catalysis for Energy and Environment (CACEE-2018)' at TIFR, Mumbai during January 10-12, 2018.
5	Effective removal of toxic heavy metal ions from industrial wastewater using surface modified algal biomass ( <i>Ulva lactuca</i> )	A. Saravanan, Mathan Muthu, R. Gnanasekar, P. Senthil Kumar <b>P.R. Yaashikaa</b>	32 <sup>nd</sup> Indian Engineering Congress, The Institution of Engineers (India), Kolkata organized at Le Royal Meridian, Chennai, 21-23 December 2017

6	Activated Carbon/Graphene composites as chemical sensors for detection of air toxics	<b>S. Suganya,</b> P. Senthil Kumar, Jaya Chandran	International Conference on Nanotechnology : Ideas, Innovations & Initiatives - 2017, IIT Roorkee, 06-08 December 2017
7	Enhanced photocatalytic degradation of acid blue 113 dye by synthesized Ni <sup>2+</sup> and Ag <sup>2+</sup> doped ZnO nanocatalyst	<b>A. Nagarajan,</b> D. Balaji, P. Senthil Kumar	International Symposium on Nanomaterials for Clean Energy and Health Applications (ISNCHA 2017), Coimbatore Institute of Technology, India and Western Norway University of Applied Sciences, Norway, 6-8 December 2017
8	Isolation, Identification and Molecular Characterization of Heavy metal Resistance in Gram-negative bacteria isolated from industrial effluent	<b>P.R. Yaashikaa,</b> P. Senthil Kumar	International Conference on Bioengineering on Health and Environment, Sathyabama Institute of Science and Technology, Chennai, 8th - 10th January 2018 ISBN: 978-93-83409-40-2
9	Bio-oil production by hydrothermal liquefaction of algal biomass growth in wastewater using bubble column photobioreactor	<b>Femina Carolin C,</b> P. Senthil Kumar	International Conference on Bioengineering on Health and Environment, Sathyabama Institute of Science and Technology, Chennai, 8th - 10th January 2018 ISBN: 978-93-83409-40-2
10	Elimination of toxic lead(II) metal ions from industrial wastewater using chitosan magnetic nanoparticles	<b>G. Janet Joshiba,</b> P. Senthil Kumar	International Conference on Bioengineering on Health and Environment, Sathyabama Institute of Science and Technology, Chennai, 8th - 10th January 2018 ISBN: 978-93-83409-40-2
11	Antibiotic and heavy metal	<b>P.R. Yaashikaa,</b>	International Conference



	resistance in gram-negative bacteria isolated from textile effluent in Vaniyambadi, India	P. Senthil Kumar	on Energy, Environment and Industrial Safety (ICEEIS), Department of Applied Science and Technology, Anna University, 22-23 February 2018 ISBN: 978-93-5291-459-3
12	Fluidized type electrode reactor (FTER) for the removal of toxic Cr(VI) ions from real tannery industrial wastewater	<b>K. Grace Pavithra,</b> <b>P. Sundar Rajan,</b> P. Senthil Kumar, V. Jaikumar	International Conference on Energy, Environment and Industrial Safety (ICEEIS), Department of Applied Science and Technology, Anna University, 22-23 February 2018 ISBN: 978-93-5291-459-3
13	Molecular characterization of heavy metal resistance in gram-negative bacteria isolated from textile effluent in Vellore, India	<b>P.R. Yaashikaa,</b> P. Senthil Kumar, A. Saravanan	First International Conference on Energy and Environment: Global Challenges (ICEE 2018), Department of Chemical Engineering, NIT Calicut, 9-10 March 2018
14	Three-phase three-dimensional electrode reactor for the removal of toxic Cr(VI) ions from real tannery industrial wastewater	<b>K. Grace Pavithra,</b> P. Senthil Kumar, V. Jaikumar, <b>P. Sundar Rajan,</b> <b>J. Arun</b>	First International Conference on Energy and Environment: Global Challenges (ICEE 2018), Department of Chemical Engineering, NIT Calicut, 9-10 March 2018
15	Eco-friendly biocatalyst immobilized onto activated carbon obtained from agricultural waste	<b>S. Suganya,</b> P. Senthil Kumar, Manojit De	3 <sup>rd</sup> International Conference on Recent Advancements In Chemical, Environmental & Energy Engineering (RACEEE 2018), Department of Chemical Engineering, SSN College of Engineering, 15-16 February 2018
16	Bioremediation of heavy metals using gram-negative	<b>P.R. Yaashikaa,</b> P. Senthil Kumar,	3 <sup>rd</sup> International Conference on Recent

	bacteria isolated from industrial effluent		Advancements In Chemical, Environmental & Energy Engineering (RACEEE 2018), Department of Chemical Engineering, SSN College of Engineering, 15-16 February 2018
17	Application of enzymatic treatment on industrial wastewater	<b>Femina Carolin C,</b> P. Senthil Kumar	3 <sup>rd</sup> International Conference on Recent Advancements In Chemical, Environmental & Energy Engineering (RACEEE 2018), Department of Chemical Engineering, SSN College of Engineering, 15-16 February 2018
18	Cr(VI) removal from tannery industrial wastewater using Fluidized Type Electrode Reactor (FTER)	<b>K. Grace Pavithra,</b> V. Jaikumar, P. Senthil Kumar	3 <sup>rd</sup> International Conference on Recent Advancements In Chemical, Environmental & Energy Engineering (RACEEE 2018), Department of Chemical Engineering, SSN College of Engineering, 15-16 February 2018
19	Application of Nano biotechnology in wastewater treatment	<b>G. Janet Joshiba,</b> P. Senthil Kumar	3 <sup>rd</sup> International Conference on Recent Advancements In Chemical, Environmental & Energy Engineering (RACEEE 2018), Department of Chemical Engineering, SSN College of Engineering, 15-16 February 2018
20	Studies on phytochemical screening, antioxidant activity and extraction active compound (2-hydroxy 4-methoxy benzaldehyde) from rhizome extract of <i>Decalepis hamiltonii</i> wight	<b>Femina Carolin C,</b> <b>G. Janet Joshiba,</b> P. Senthil Kumar	3 <sup>rd</sup> International Conference on Recent Advancements In Chemical, Environmental & Energy Engineering (RACEEE 2018), Department of Chemical

	and arn		Engineering, SSN College of Engineering, 15-16 February 2018
21	Bioremediation of bulk drug manufacturing industry effluent using microbial consortium	<b>Shabnam Murshid</b> D. Gnana Prakash	International Conference on Bioprocessing, 2-7 Dec, 2017
22	Downstream processing for liquid biofuel production from oleaginous microalgae feedstock cultivated in Hybrid Loop Airlift Photobioreactor (HILALPBR)	<b>P. Sundar Rajan</b> <b>C. Femina Carolin</b> K.P. Gopinath D. Gnana Prakash <b>K. Grace Pavithra</b> <b>K. Pavendan</b>	International Conference on Energy and Environment: Global Challenges, 9-10 March, 2018