

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

**List of Student's Conference Publications**

**2012-2013**

Sl. No.	Title of papers	Author(s)	Name of Conference proceedings and year of publication
1	A new three-phase three-dimensional electrochemical reactor – Application in the dye wastewater treatment	P. Senthil Kumar <b>S. Maria Jacob</b> <b>Stani Raja,</b> <b>S. Mahathevan</b> <b>L. Dinesh Kumar</b>	International Conference on Green Technology in Engineering and Applied Sciences, March 29 – 30, 2013, organized by Adhiparasakthi Engineering College, Melmaruvathur
2	Adsorption of Cu(II) ions from aqueous solution using sulphuric acid treated Eucalyptus seeds	P. Senthil Kumar <b>S. Shahul Hameed</b> <b>M. Sindhuja</b> <b>K. Sangita Gayathri</b>	National Conference on Recent Advancements in Chemical Engineering (RACE), SSN College of Engineering, Chennai, 26-02-2013
3	Removal of methylene blue dye from synthetic wastewater using surface modified agricultural waste	P. Senthil Kumar <b>S. Shahul Hameed</b> <b>M. Sindhuja</b> <b>K. Sangita Gayathri</b>	National Conference on Recent Advancements in Chemical Engineering (RACE), SSN College of Engineering, Chennai, 26-02-2013
4	Adsorption of Cu(II), Cd(II), Zn(II) and Ni(II) ions onto the sulphuric acid treated cashew nut shell	P. Senthil Kumar <b>A.S.L. Sai Deepthi</b> <b>R Bharani</b>	National Conference on Recent Advancements in Chemical Engineering (RACE), SSN College of Engineering, Chennai, 26-02-2013
5	Removal of copper ions from aqueous solution by surface modified agricultural waste	P. Senthil Kumar <b>C. Prabhakaran</b>	National Conference on Recent Advancements in Chemical Engineering (RACE), SSN College of Engineering, Chennai, 26-02-2013
6	Removal of methylene blue	P. Senthil Kumar	National Conference on

	dye from aqueous solution using a three-phase three-dimensional electrochemical reactor	<b>Maria Jacob Stani Raja</b> <b>K. Mahathevan</b> <b>L. Dinesh Kumar</b>	Recent Advancements in Chemical Engineering (RACE), SSN College of Engineering, Chennai, 26-02-2013
7	Conversion of waste plastic into fuel oils	P. Senthil Kumar <b>M. Bharathikumar</b> <b>H. Ethiraj</b> <b>J. Immanuel</b>	National Conference on Recent Advancements in Chemical Engineering (RACE), SSN College of Engineering, Chennai, 26-02-2013
8	Modelling of adsorption of metal ions onto the surface modified agricultural waste	P. Senthil Kumar <b>A.S.L. Sai Deepthi</b> <b>R. Bharani</b>	DRDO Sponsored National Conference on "Mathematical Modelling in Civil Engineering", Department of Civil Engineering, Sri Krishna College of Technology, Coimbatore, 26, 27-02-2013
9	Adsorption kinetics, mechanism, isotherm and thermodynamic analysis of copper ions onto the surface modified Strychnos potatorum seeds	P. Senthil Kumar <b>C. Prabhakaran</b>	DRDO Sponsored National Conference on "Mathematical Modelling in Civil Engineering", Department of Civil Engineering, Sri Krishna College of Technology, Coimbatore, 26, 27-02-2013
10	Adsorption of metal ions onto the surface modified agricultural waste: Kinetics, Mechanism, Equilibrium, Process Design, and Thermodynamics	P. Senthil Kumar <b>A.S.L. Sai Deepthi</b> <b>R. Bharani</b>	National Conference on Emerging Interdisciplinary Trends of Chemical Technology, Department of Chemical Engineering, Sathyabama University, 21, 22-03-2013
11	Adsorption kinetics, mechanism, isotherm and thermodynamic analysis of copper ions onto the surface agricultural waste	P. Senthil Kumar <b>C. Prabhakaran</b>	National Conference on Emerging Interdisciplinary Trends of Chemical Technology, Department of Chemical Engineering, Sathyabama University, 21, 22-03-2013

## 2013-2014

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1	Decolorization of dye from aqueous solution by electrolytic process, adsorption process and three-phase three-dimensional electrode reactor: A comparison study	P. Senthil Kumar <b>C. Prabhakaran</b> V. Vinoth Kumar	International Conference on Chemical and Bioprocess Engineering – India (ICCBPE-IN, 2013), November 16 – 17, 2013 organized by Department of Chemical Engineering, NIT Warangal
2	Adsorption thermodynamic, isotherm, kinetic, mechanism and design equations for the removal of Cd(II) ions from aqueous solution by surface modified Eucalyptus seeds	P. Senthil Kumar <b>C. Prabhakaran</b> V. Vinoth Kumar	International Conference on Chemical and Bioprocess Engineering – India (ICCBPE-IN, 2013), November 16 – 17, 2013 organized by Department of Chemical Engineering, NIT Warangal
3	Recycling of polyethylene terephthalate by de-polymerization via alkaline hydrolysis to yield terephthalic acid	<b>R.Sankaranayanan</b> <b>P.R. Vignesh,</b> D. Gnanaprakash, K. Ramakrishnan, A. Seenivasan	International conference on Recent advancements in Chemical, environmental and Energy engineering, 26-27 <sup>th</sup> Feb 2014, SSN College of Engineering, Chennai
4	Solid-state fermentation technology- a versatile tool for biological process	<b>Y. Abhishek Rao,</b> <b>V. Arutprahasam,</b> A. Seenivasan	International conference on Recent advancements in Chemical, environmental and Energy engineering, 26-27 <sup>th</sup> Feb 2014, SSN College of Engineering, Chennai
5	Dynamic response of temperature in a Heated Tank using P, PI, PID controller : Simulation using POLYMATH software tool	<b>V.Nandhini,</b> <b>B.Suchithra,</b> Kilaru Harsha Vardhan , R.Saravanathamizhan	International conference on Recent advancements in Chemical, environmental and Energy engineering, 26-27 <sup>th</sup> Feb 2014, SSN College of Engineering, Chennai

6	Hydrotropic Extraction of Xanthenes from Mangosteen Pericarp	D.Gnana Prakash <b>Pradeep</b> <b>Panneerselvam</b> <b>Sai</b> <b>Madhusudanan</b> <b>V. Aditya</b>	International Conference on Recent Advancement in Mechanical Engineering and Interdisciplinary Development, 7 <sup>th</sup> – 8 <sup>th</sup> March
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## 2014-2015

Sl. No.	Title of papers	Author(s)	Name of Conference proceedings and year of publication
1	Conversion of waste plastics into low-emissive hydrocarbon fuels through catalytic depolymerisation in a laboratory scale batch reactor	P. Senthil Kumar, <b>C. Prabhakaran,</b> <b>M.Bharathikumar,</b> <b>K. Anish Kumar</b> K. Ramakrishnan	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	Application of Sargassum wightii: A marine algae in wastewater treatment	P. Senthil Kumar <b>R. Kameshwar</b> <b>K. Prapanchana</b>	National Conference on Advances in Process Engineering (CAPE – 2014), SASTRA University, 10-11 <sup>th</sup> October 2014
3	Adsorption of copper ions onto the surface modified Strychnos potatorum seeds as a new low cost adsorbent	P. Senthil Kumar <b>Ritu Treisa Philip</b> <b>T. Sengavi</b> <b>R. Amalyia</b>	National Conference on Advances in Process Engineering (CAPE – 2014), SASTRA University, 10-11 <sup>th</sup> October 2014
4	Characterization of Terephthalic acid Recycled from Post-Consumer PET Polymer Bottles	<b>R.Sankaranayanan</b> A. Seenivasan D. Gnana Prakash K. Ramakrishnan	Third International Conference on Polymer processing and Characterization, International and Inter University Centre for Nanoscience and Nanotechnology, Mahatama Gandhi University, Kottayam, Kerala. 11-13 October 2014

## 2015-2016

Sl. No.	Title of papers	Author(s)	Name of Conference proceedings and year of publication
1	Removal of heavy metal ions from aqueous environment using chitosan magnetic nanoparticles	<b>G. Jane Joshiba,</b> A. Saravanan 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
2	Removal of toxic pollutants from industrial tannery wastewater using fluidized type electrode reactor	<b>K Grace Pavithra,</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
3	Application of photocatalysis in the specific and effective treatment of textile dye wastewater	<b>Durga Kalaivani,</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, A.Saravanan, <b>P.Sundar rajan,</b> 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	Microwave assisted corn cob activated carbon for the removal of methylene blue dye from aqueous solution	V. Jaikumar, P. Senthil Kumar <b>V. Tharaneethar</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	Adsorption of heavy metal ions from wastewater using activated carbon prepared from fishtail palm Caryota urens seeds: Isotherm, Kinetic and Thermodynamic studies	<b>M.Yashwanthraj</b> , P. Senthil Kumar, A.Saravanan	International Conference on Advances in Bio Technology, Civil & Mechanical Science – ICABCMS'16, Selvam College of Technology, 17-18 <sup>th</sup> March 2016
7	Enhanced removal of Pb(II) ions using magnetic nanoparticles derived from chitosan: Characterization, isotherm and kinetic studies	P. Senthil Kumar A. Saravanan <b>P. Sundar rajan</b>	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
8	Feasibilities Of Using Power Ultrasound And Microwave Treatment In Reducing CO <sub>2</sub> Capture Energy Demand	<b>V. Nandhini</b> , <b>B. Suchitra</b> , <b>R. Surendiran</b> , J. Dhanalakshmi, B. Ambedkar	2 <sup>nd</sup> International Conference on Science, Technology and Management (ICSTM-15), at Delhi University, Conference Centre, New Delhi, 27 <sup>th</sup> September 2015

## 2016-2017

Sl. No.	Title of papers	Author(s)	Name of Conference proceedings and year of publication
1	Alternative Cementitious Material for Sustainable Development	<b>Josephin Alex,</b> J.Dhanalakshmi, B. Ambedkar, R. Anantharaj	SESTEC-2016, IIT Guwahati, INDIA, 17 - 20 May 2016
2	Experimental Investigation on Natural Coagulant for the Treatment of Turbid Water	<b>S.S. Judith Emiliah Christy,</b> B. Ambedkar, R. Anantharaj, J. Dhanalakshmi	SESTEC-2016, IIT Guwahati, INDIA, 17 - 20 May 2016
3	Efficient Removal of Pb(Ii) Metal Ions from Waste Water Using Chitosan Magnetic Nano Particles	<b>G. Janet Joshiba,</b> A. Saravanan, P. Senthil Kumar	National Conference On Technologies To Eradicate And Control Industrial Pollution [TECIP-2016], Annamalai University, 21-22 October 2016
4	Bio-Oil Production by Hydrothermal Liquefaction of Algal Biomass Grown in Wastewater Using Bubble Column Photo Bioreactor	<b>C. Femina Carolin,</b> P. Senthil Kumar	National Conference On Technologies To Eradicate And Control Industrial Pollution [TECIP-2016], Annamalai University, 21-22 October 2016
5	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
6	Rust Converting Coating Technology: A Review	<b>H. Dawood Ansari,</b> D. Balaji	International Symposium on Advances in Electrochemical Science and Technology, 8 - 10, December 2016, Hotel Kohinoor Asiana, Chennai
7	Addition of Rice Husk Ash as Supplementary	<b>Josephin Alex,</b> J. Dhanalakshmi,	International conference on RACEEE 2017, 23 &

	Cementitious Material (SCM) in Concrete for Sustainable Development	B. Ambedkar*, R. Anantharaj	24th February 2017 at SSNCE Chennai - 603110, Tamilnadu, India.
8	Treatment of Synthetic Turbid Water using Tamarind seeds at atmospheric conditions	<b>Judith Emlliah Christy S S</b> , R. Anantharaj, B. Ambedkar*, J. Dhanalakshmi	International conference on RACEEE 2017, 23 & 24th February 2017 at SSNCE Chennai
9	Prediction of salting coefficient for Acetone-Methanol-Salt System using Scaled Particle Theory	<b>Deepak Kumar B, Aravind S, Ayyappan S</b> , J. Dhanalakshmi*, B. Ambedkar	International conference on RACEEE 2017, 23 & 24th February 2017 at SSNCE Chennai

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1	Enhancement of heat transfer rate using Hybrid Nanofluids – A Review	Chitra Boobalan, Parthiban Rangasamy, <b>Sainiwetha Saikrishnan, Solai Natarajan</b>	32 <sup>nd</sup> Indian Engineering Congress, The Institution of Engineers (India), ISBN: 978-93-86724-29-8, 2017
2	Volumetric Behavior of Mixed Ionic Liquids at Different Temperatures (293.15 to 343.15) K	<b>M Danish John Paul, N Shruthi</b> , R. Anantharaj	Advances in Chemical Engineering foe the Development of Agriculture, Energy and Environment, 2018.
3	Thermodynamic properties of Deep Eutectic Solvent and Ionic Liquids mixture at temperatures from 293.15 K to 343.15 K.	R.S.Achsah., <b>S.Shyam, N.Mayuri</b> , R. Anantharaj	9th National Conference on Thermo – Physical Properties, 2017
4	Experimental Investigation of Thermodynamic properties of Binary Mixture of Acetic acid + n-Butanol and Acetic acid + Water at Temperature from 293.15 K to 343.15 K.	<b>M Danish John Paul, N Shruthi</b> , R. Anantharaj	9th National Conference on Thermo – Physical Properties, 2017.
5	Ab initio quantum chemical	<b>A.V. Sai</b>	9th National Conference



	calculations of the interaction between radioactive elements and imidazolium based ionic liquids”	<b>Saravanan, B. Abishek,</b> R. Anantharaj	on Thermo – Physical Properties, 2017.
6	Sigma Profile of Endocrine Disrupts Compounds and Imidazolium based Cations and Smaller Size & Larger Size Anions: A Quantum Chemical Study.	<b>A.V. Sai Saravanan, B. Abishek,</b> R. Anantharaj,	9th National Conference on Thermo – Physical Properties, 2017.
7	Analysis of Vehicular Emission on Environment to Predict the Mitigation Measures: A Case Study on OMR, Chennai	<b>M.S.Arun Karthik,</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