

Dr. S. Renganathan publications

- Nambirajan Subramanian, Dharmendra Kumar Mahendradas, Ramachandran Kasirajan, Renganathan Sahadevan, “Bio-oil separation from potential non-edible urban waste *Putranjiva roxburghii*”, Separation Science and Technology, Vol. 50, Issue 3, April 2014, 2066-2074, 2015.
- Ernest Ravindran Ramaswami Sachidanandan, Thomas Paramanandham, Renganathan Sahadevan, “A comparative study on dielectric, structure and thermal behavior of micro and nano sized CCTO in nylon 6.9 matrix, Polymer composites”, DOI 10.1002/PC.23654.
- Ernest Ravindran Ramaswami Sachidanandan, Thomas Paramanandham, Renganathan Sahadevan, Studies on the structural, thermal, and dielectric properties of fabricated Nylon 6,8/CaCu₃TiO₄O₁₂ nanocomposites. Sci Eng Compos Mater, DOI 10.1515/secm-2014-0342.
- T. Suganya • M. Varman • H.H. Masjuki • S. Renganathan, “Macroalgae and microalgae as a potential source for commercial applications along with biofuels production: A biorefinery approach”, Renewable and Sustainable Energy Reviews (Impact Factor: 5.9). Vol. 55, 909-941, 2016.
- Lavanya Melcure Raj, Meenakshisundaram Arunachalam, Renganathan Sahadevan, Chinnasamy Senthil, David M Lewis, Nallasivam Jaganathan, Bhaskar Sailendra, “Hydrothermal liquefaction of freshwater and marine algal biomass: A novel approach to produce distillate fuel fractions through blending and co-processing of biocrude with petrocrude”, Bioresource Technology, Vol. 203, 228-235, 2016.
- V. Subha, Preethi ramadoss, and S. Renganathan, “Incorporation of biotransformed silver nanoparticles in plant polysaccharides in and their effect on sustained drug release”, Polymer Science Series B, Vol. 58, No.1, 61-72, 2016.
- Mohammad Khan Faisal, Parthasarathy Saranya, Lingesan Prameela and Sahadevan Renganathan, “Studies on adsorption potential of oil-extracted marine macro algae *Padina gymnospora* for the removal of methylene blue”, International Journal of Environment and Sustainable Development, Vol.15, No.3, 272-285, 2016.
- V.A. Niraimathee, V. Subha, R. S. Ernest Ravindran and S. Renganathan, “ Green synthesis of iron oxide nanoparticles from *Mimosa pudica* root extract”, International Journal of Environment and Sustainable Development, Vol.15, No.3, 227-240, 2016.
- V. Subha, S. Kirubanandan, and S. Renganathan, “ Green synthesis of Silver nanoparticles from a novel medicinal plant source roots extract of *mukia maderaspatana*”, Colloid and surface science, Vol.1, No.1, 14-17, 2016.
- J. Sarojini, A. Sirajunnisa, S. Pavithra, R. Geethalakshmi, J.Priyanga, S. Keerthana Sivanesan and S. Renganathan, “ Antioxidant activity of iron isolated from petals of *Hibiscus rosa sinensis*”. EC Microbiology, Vol.7.1, 14 -20, 2017.

- J. Vaishnav, V. Subha, S. Kirubanandan, M. Arulmozhi and S. Renganathan, “ Green synthesis of zinc oxide nanoparticles by *Celosia argentea* and its characterization”, *Journal of optoelectronics and Biomedical materials*, Vol.9, No.1, 59-71, 2017.
- M. Karthikeyan and S. Renganathan, “Optimization of non-edible oil extraction from *Cassia javanica* seeds”, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*. DOI: 10.1080/15567036.2017.1299259.
- M. Karthikeyan, S. Renganathan and P. Govindhan, “Production of biodiesel via two step acid base catalysed transesterification reaction of karanja oil by BaMoO₄ as a catalyst”, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*. DOI: 10.1080/15567036.2017.1336822.
- V. Theresa, R.S. Ernest Ravindran, R. Ajith Kumar, K. Pandian & S.Renganathan, “Novel approach to produce oil from non-edible seeds of *Indigofera colutea*” *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*. Vol.39, No.13, 1369-1376, 2017.
- K. Ramachandran, S. Wondwosen, S. Nambirajan & S.Renganathan, “*Solanum nigrum* L. as a novel energy resource for biodiesel production through transesterification process using open system, reactor” *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*. (Accepted)
- D. Vignesh priya, N. Krishnaveni, S. Renganathan, “Marine brown macroalga *Sargassum wightii* as a novel biosorbent for removal of brilliant green dye from aqueous solution: kinetics, equilibrium isotherm modeling and phytotoxicity of treated and untreated dye” *Desalination and Water Treatment*. Vol.78, 300-312, 2017.
- S. Keerthana, J. Priyanga, A. Sirajunnisa, S. Pavithra, R. Geethalakshmi, S. Renganathan, “Biofabrication of manganese nanoparticles using *Aegle marmelos* fruit extract and assessment of its biological activities”. *Nanomedicine Research Journal*. Vol.2, No.3, 171-178, 2017.
- G. Bhargavi, R. Geethalakshmi, S. Renganathan, “Equilibrium and isothermal studies on the removal of aqueous solutions using *Kigelia africana* biosorbent”. *Applied Mechanics and Materials*. Vol.877, 26-32, 2017.
- G. Bhargavi, R. Geethalakshmi, S. Renganathan, “Biosorption of basic textile dye from aqueous solution using *Pongamia pinnata* as Adsorbent”. *Applied Mechanics and Materials*. Vol.877, 13-19, 2017.
- R. Navnit Kumar, S. Jason Charles, T. R. Sambavi, S. Kabilan, S. Renganathan, “Heterologous Expression of Exoglucanase from *Trichoderma reesei* in *E. Coli*”. *International Journal of Modern Science and Technology*. Vol.3 (3) , 65-71, 2018.
- V. Nadanakumar, A. A. Arivalagar, N. Alagumurthi, G. Bhargavi, S. Kirubanandan, S. Renganathan, “Methyl Ester of Silkworm Oil: Preparation/ Transesterification, Properties and Analysis”. *International Journal of Chemical and Molecular Engineering*. Vol.3 (2) , 6-13, 2018.

- G. Bhargavi, P. Nageswara Rao , S. Renganathan, “Review on the extraction methods of crude oil from all generation biofuel in last few decades”. Iop Conference Series Material Sciences and Engineering Vol.330, doi:10.1088/1757-899X/330/1/012024 2018.
- G. Bhargavi, V.Venu , S. Renganathan, “Microbial fuel cells: recent developments in design and materials”. Iop Conference Series Material Sciences and Engineering Vol.330, doi:10.1088/1757-899X/330/1/012034, 2018.
- G. Bhargavi, P. Nageswara Rao , S. Renganathan, “Production of Biodiesel from Thespesiapopulnea seed oil through rapid in situ transesterification - an optimization study and assay of fuel properties”. Iop Conference Series Material Sciences and Engineering Vol.330, doi:10.1088/1757-899X/330/1/012046, 2018.
- G. Bhargavi, P. Nageswara Rao , S. Renganathan, “Decolorisation of Basic Textile Dye from Aqueous Solutions using a Biosorbent derived from Thespesia populnea used Biomass”. Iop Conference Series Material Sciences and Engineering Vol.330, doi:10.1088/1757-899X/330/1/012036, 2018.
- V. Theresa, K. Ramachandran, G. Baskar & S.Renganathan, “A Novel approach for extraction of algal oil from marine macroalgae *Ulva fasciata* ” Renewable Energy Vol.127, 64-73, 2018.
- V. Subha, S. Kriubanandan, M. Arulmozhi & S. Renganathan, “ Green Synthesis of Copper Nanoparticles using Odina woider gum extract and their Effect on Photocatalytic Dye Degradation” Journal of American Institute of Chemists, Vol.91 (1), 9-19, 2018.
- V. Subha, S. Kriubanandan & S. Renganathan, “Folate targeted galactomannan coated iron oxide nanoparticles as a nanocarrier for targeted drug delivery of capecitabine” International journal of medical nano research, Vol. 5 (1), 1-11, 2018.
- D.Vigneshpriya, N.Krishnaveni and S. Renganathan, “ Untreated and sargassum, wightii – treated brilliant green dye toxicity impact on microflora and *Allium cepa* L., Applied water science, Vol. 9 (16),1-8,2019
- Navnit kumar Ramamoorthy, Sambavi TR & Renganathan Sahadevan, 2018, 'Production of bio-ethanol from an innovative mixture of surgical waste cotton and waste card board after ammonia pre-treatment', Energy sources, Part A: Recovery, Utilization and Environment Effects. Vol. 40, No. 20, pp.2451-2457.
- Navnit kumar Ramamoorthy, Sambavi TR & Renganathan Sahadevan, 2018, 'Production of bio-ethanol by an innovative biological pre-treatment of a novel mixture of surgical waste cotton and waste card board', Energy sources, Part A: Recovery, Utilization and Environment Effects.
- Navnit kumar Ramamoorthy, Sambavi TR & Renganathan Sahadevan, 2019, 'A study on cellulase production from mixture of lignocellulosic wastes', Process Biochemistry. Vol.83, pp. 148-158.