

Dr. K. Tamilarasan

Assistant Professor (Sr.G)

Department of Chemical Engineering,
Kattankulathur Campus, SRM University
Chennai - 603203

E-Mail: tamilarasan.k@ktr.srmuniv.ac.in

Mobile: 9840017648

Area of specialization: Environmental Biotechnology, Nanocatalysis, Biomolecule synthesis.

Last five years Publications

1. Manisha J, S Mariya, G Sharmila, C Muthukumaran, G Baskar, **K Tamilarasan**. Fabrication of a Chitosan-Coated Magnetic Nano biocatalyst for Starch Hydrolysis. Chemical Engineering and Technology. 38, 1444-1451, 2015. (IF-2.4).
2. Manisha J, S Mariya, P Radha, S Kiruthika, C Muthukumaran, **K Tamilarasan**. Synthesis, characterization and kinetic analysis of chitosan coated magnetic nanobiocatalyst and its application on glucose oleate ester synthesis. Journal of Molecular Catalysis B: Enzymatic. 128, 1-9, 2016. (IF-2.62)
3. De S, S Mishra, E Poonguzhali, M Rajesh, **K Tamilarasan**, Fractionation and characterization of lignin from waste rice straw: Biomass surface chemical composition analysis. International journal of biological macromolecules. (Accepted) 2019 (IF 4.7)
4. Gunasekaran.V, S.Ramesh, K.Sathiasivan, M.Shankar, .Rajesh, **K.Tamilarasan**, Simultaneous organosolv pretreatment and detoxification of agro-biomass for efficient lignin extraction and characterization. Chemical papers. (Article in press) 2019 (IF 1.2)
5. Ramakoti B, H.Dhanagopal, K.Deepa, M.Rajesh, S.Ramaswamy, **K.Tamilarasan**, Solvent fractionation of organosolv lignin to improve lignin homogeneity: structural characterization. Bioresource Technology reports. 7, 100293, 2019.
6. Shankar M,P.K.Chhotaray,R.L.Gardas, **K.Tamilarasan**,M.Rajeash, Application of carboxylate protic ionic liquids in simultaneous microalgal pretreatment and lipid recovery from marine *Nannochloropsis* sp. and *chlorella* sp. Biomass and Bioenergy. 123, 14-24, 2019. (IF 4.0)
7. Elango RK, K Sathiasivan, C Muthukumaran, V Thangavelu, M Rajesh **K Tamilarasan**. Transesterification of castor oil for biodiesel production: Process optimization and characterization. Microchemical Journal. 145, 1162-1168, 2019. (IF-3.0)
8. Kumar N, S Vijayashankar, P Pasupathi, S Nirmal kumar, E Poonnguzhali, M Rajesh, **K Tamilarasan**. Optimal extraction, sequential fractionation and structural characterization of soda lignin. Research on Chemical Intermediate. 44, 5403-5413, 2018. (IF-2.0)

9. Manoj Kumar N, E Selvarajan, **K Tamilarasan**, M Rajesh, Purification, biochemical, and thermal properties of fibrinolytic enzyme secreted by *Bacillus cereus* SRM-001. *Preparative Biochemistry and Biotechnology*. 48, 34, 2017. (IF-1.36)
10. Praveenkumar J, C Muthukumaran, **K Tamilarasan**. A sequential pretreatment of lignocelluloses in bamboo biomass to fermentable sugars by acid/enzymatic hydrolysis. *3Biotech*. 7, 260, 2017. (IF-1.7)
11. Felicia K R, C Muthukumaran, G Sharmila, N Manojkumar, **K Tamilarasan**, R Jaiganesh, Xanthan gum production using jackfruit-seed-powder-based medium: optimization and characterization. *3 Biotech*. 7, 248, 2017. (IF-1.7)
12. Mukund S, K.C Pratap, A Ayushi, L.G Ramesh, **K Tamilarasan**, M Rajesh. Protic Ionic Liquid-Assisted Cell Disruption and Lipid Extraction from Fresh Water *Chlorella* and *Chlorococcum* Microalgae. *Algal Research*. 25, 228-236, 2017. (IF-4.4)
13. Baskar G, A Gurugulladevi, T Nishanthini, R Aiswarya, **K Tamilarasan**. Optimization and kinetics of biodiesel production from Mahua oil using manganese doped zinc oxide nanocatalyst. *Renewable Energy*. 103, 641-646, 2017. (IF-5.2)
14. Maria S, J Manisha, P Radha, S Kiruthika, **K Tamilarasan**. Immobilized lipase catalyzing glucose stearate synthesis and their surfactant properties analysis. *3 Biotech*. 6, 184, 2016. (IF-1.7)
15. Padmanaban S, N Balaji, C Muthukumaran, **K Tamilarasan**. Statistical optimization of process parameters for exopolysaccharide production by *Aureobasidium pullulans* using sweet potato based medium. *3 Biotech*. 5, 1067-1073, 2015. (IF-1.7)