

Dr. K. SATHISH KUMAR
List of Publications

- 1) M. Seenuvasan, Prabhakaran Kalai Selvi, M. Anilkumar, J. Iyyapan, **K. Sathish Kumar**, "Standardization of non-edible pongamia pinnata oil methyl ethyl ester conversion using hydroxyl content and GC-MC analysis", Journal of Taiwan Institute of Chemical Engineers vol.45, 1485-1489, 2014.
- 2) T. Anitha, P. Senthil Kumar and **K. Sathish Kumar**, "Binding of Zn(II) ions to Chitosan-PVA blend in aqueous environment: Adsorption Kinetics and equilibrium studies" American Institute of Chemical Engineers, DOI 10.1002/ep.11943, 2014.
- 3) Muthulingam Seenuvasan, **K. Sathish Kumar**, Carlin Geor Malar, Sridhar Preethi, Nagarajan Balaji, Madhava Anil Kumar, "Characterization, Analysis and Application of Fabricated Fe₃O₄-Chitosan-Pectinase nanobiocatalyst", Applied Biochemistry and Biotechnology 172, pp.2706-2719, 2014.
- 4) P. Shekar, **K. Sathish Kumar**, S. Anuradha, M. Radhakrishnan, M. Balagurunathan, "Optimization of medium components for antibacterial metabolite production from Marine Streptomyces SP.PUA2 using Response Surface Methodology, International Journal of Pharmacy and Pharmaceutical sciences, Vol.6(7), 475-480, 2014.
- 5) Muthulingam Seenuvasan, **K. Sathish Kumar**, Madhava Anil Kumar, Jeyaraj Iyyapan, John rini Gnana Suganthi, "Response surface estimation and canonical quantification for pectin degrading Fe₃O₄-SiO₂ nanobiocatalyst fabrication", International Journal of ChemTech Research, 7, pp.3618-3627, Vol.6, 2014.
- 6) Monica Thukkaram, Soundarya Sitaram, Sathish Kumar Kannaiyan, and Guruprakash Subbiahdoss, "Antibacterial efficacy of Iron oxide nanoparticles against biofilms on different biomaterial surfaces" International journal of biomaterials, Volume 2014, Article ID 716080, <http://dx.doi.org/10.1155/2014/716080>.
- 7) T. Anitha, P S Kumar, K Sathish Kumar, K Sriram, J Feroz Ahmed, "Biosorption of Lead (II) ions onto nanosized chitosan particle blended Poly vinyl alcohol : adsorption isotherms, kinetics and Equilibrium studies", Desalination and Water Treatment, pp.1.-11, 2015.
- 8) T. Anitha, P S Kumar, K Sathish Kumar, B Ramkumar S Ramalingam, Adsorptive removal of Pb(II) ions from polluted water by new synthesized chitosan-polyacrylonitrile blend : Equilibrium, kinetic, mechanism and thermodynamic approach" Process safety and Environmental Protection, vol.98, pp.187-197, 2015.
- 9) Shekar P, K Sathish Kumar, Gopikrishnan V and Radhakrishnan M, "Antiproliferative activity of yellow pigment from forest soil streptomyces species SFA5 against breast cancer cell line MCF-7, Bangladesh Journal of pharmacology, vol.10, pp.65-653, 2015.
- 10) C. Kumaresan and Sathish Kumar K, "Development of Inhaled sustained release Dry powder formulation of Salbutamol sulphate - an antiasthmatic drug", Indian Journal of Pharmaceutical sciences, Vol.78, Issue 1, pp.136-142, 2016.
- 11) G Karthiga, Sathish Kumar K and P Senthil Kumar, "Green synthesis of novel silver nanocomposite hydrogel based on sodium alginate as an efficient biosorbent for the dye wastewater treatment: Prediction of isotherm and kinetic parameters" Desalination & Water treatment pp.1-14, 2016.
- 12) G Karthiga, Sathish Kumar K, "Synthesis of gold and silver nanoparticles using Mukia maderaspatna plant extract and its anticancer activity", IET nanobiotechnology, doi: 10.1049/iet-nbt.2015.0054, 2016.

- 13) B. Chitra & K. Sathish Kumar "Heat transfer enhancement using single and double base fluids", *Journal of Molecular Liquids*, Vol.221, 1128-1132, 2016.
- 14) T. Anitha, P S Kumar, K Sathish Kumar, "Synthesis of nanosized blended polyvinyl alcohol for the removal of Eosin yellow dye from aqueous solution" *Journal of water process engineering*, vol.13, pp.127-136, 2016.
- 15) Shekar P, K Sathish Kumar, Gopikrishnan V and Radhakrishnan M, "HPTLC fingerprint profile of antibacterial compound produced from forest soil streptomyces SFA5" *Bangladesh Journal of pharmacology*, Vol.11, pp.295-300, 2016.
- 16) N. Balaji, K. Sathish Kumar, M. Seenuvasan, Govinda Vinodhini, Madava Anilkumar, "Immobilization of laccase onto microemulsified magnetic nanoparticles for enhanced degradation of a textile wastewater" *Journal of Environmental Biology*, Vol.37, 1489-1496, 2016.
- 17) G Karthiga, Sathish Kumar K, R. Parthiban, K. Kalishwarlal "An Insight Study on HPLC fingerprinting of Mukia Madraspetna: Mechanism of bioactive constituents in metal nanoparticle synthesis and its activity against human pathogens", *Microbial Pathogenesis*, Vol.102, pp.120-132, 2017.
- 18) M Seenuvasan, G Vinodhini, Carlin geor Malar, N Balaji, K Sathish Kumar, "Magnetic nanoparticles a versatile carrier for enzymes in bioprocessing sectors" *IET nanobiotechnology*, doi: 10.1049/iet-nbt.2017.0041, 2017.
- 19) B. Chitra, K. Sathish Kumar, "Sonication effects and Thermal properties of silica-parafflu nanofluids" *Iranian Journal of Chemistry and Chemical Engineering*, Vol.36, No.3, pp.153-159, 2017.
- 20) K. Sathish kumar, S. Subhashini, "Physio-Chemical Characteristics of calcium oxalate crystals in spinacia oleracea L.", *Indian Journal of Biophysics & Biochemistry*, "Vol.54, pp.156-163, 2017.
- 21) B. Chitra, K. Sathish Kumar, Avinash U, Abhaiguru R, Sneha S, Tiju Thomas "Comparison of experimental and calculated thermophysical properties of alumina/cupric oxide hybrid nanofluids" *Journal of Molecular liquids*, Vol.244, pp.469-477, 2017
- 22) K. Sathish Kumar, KR Rohit Narayanan, S Sidarth, R Pawan kumar, R Badri Narayanan, R Goutham, V samynathan, "Synthesis of MgO/TiO₂ nanocomposite and its application in photocatalytic degradation", *International Journal of Chemical Reactor Engineering*, DOI: 10.1515/ijcre-2017-0136, pp.1-14.2018.
- 23) Carlin Geor Malar, K Sathish Kumar, M S Seenuvasan, "Prominent studies on surface properties and diffusion coefficient of Urease conjugated Magnetic Nanoparticles", *Appl.Biochem Biotechnol*, <https://doi.org/10.1007/s12010-018-2719-1>, 2018.
- 24) Carlin Geor Malar, M Seenuvasan & K. Sathish Kumar, "Basic study on lipase immobilized nanoparticles", *Nanotechnology in environmental engineering*, <https://doi.org/10.1007/s41204-018-0048-9>, 2019.
- 25) M. Irshad Ahmed & K. Sathish Kumar, "Modelling of electronic and Optical properties of Cu₂SnS₃ quantum dots for optoelectronic applications" *Material Science-Poland*, DOI: 10.2478/msp-2018-0103, 2019.
- 26) Sathish Kumar K, Chitra B, Fedal castro Nagarajan, Srinivas sivaraman, "Modelling of thermal conductivity and density of alumina/silica in water hybrid nanocolloid by the application of artificial neural networks" *Chinese Journal of Chemical Engineering*, 2018.
- 27) Subhashini. S, Sathish Kumar K, "Isolation and characterization of biogenic calcium oxalate crystals from *Amorphophallus paeoniifolius*", *Journal of Plant Biochemistry and Biotechnology*, DOI 10.1007/s13562-019-00493-4, 2019.

- 28) M. Irshad Ahmed & K. Sathish Kumar, "Studies on Cu_2SnS_3 quantum dots for O-Band Wavelength detection" Material Science-Poland, DOI: 10.2478/msp-2019-0022
- 29) Carlin Geor Malar, M Seenuvasan & K. Sathish Kumar, "Improvisation of diffusion coefficient in surface modified magnetite nanoparticles a novel perspective" Material science and Engineering C, Vol.103,109832-, 2019.