**PUBLICATIONS**

* Nanoscale Zero Valent Iron Supported on MontmorrilloniteClay for the Removal Cu (II)FROM Aqueous Solution - K.Jayaraj, A. Rajeswari, E.Jackcinastobel Christy, G.Aruna Devi and Anitha Pius, Journal of Advanced Microscopy Research 13 (2018) 143-151.
* Application of Bio-waste materials in the Green Synthesis of Composites for Water Purification, K. Jayaraj, M. Suriya, Anitha Pius, Journal of Critical Reviews 7 (2020) 282- 288.
* Utilization of Pineapple Leaves for Production of Nanocellulose and its application along with Magnetic Chitosan for Efficient Dye Adsorption and Antibacterial Acticity, K. Jayaraj and Anitha Pius,Plant Cell Biotechnology and Molecular Biology 21(57&58) (2020) 56-72.
* Green Composite Film for Food Packaging Applications - K.Jayaraj, E.Jackcinastobel Christy and Anitha Pius, Advances and Applications in Mathematical Sciences 20 (2) (2020) 245-260.
* Adsorption Behaviour of Arsenic (V) by Cellulose / Magnetic Chitosan Composite, K.Jayaraj, E.Jackcinastobel and Anitha Pius, International Journal of Research Culture Society 4 (2020) 11-22.
* Assessment of impact of swachh bharat abhiyan on the quality of soil and water sources in and around Dindigul, Tamil Nadu, K.Jayaraj, Anitha Pius, 6(11) (2017) 514-526.
* Water Quality Analysis Using Multivariate Techniques, K.Jayaraj, M.Muthu kumaran, Anitha Pius, IJRAR, 6 (1) (2019) 242 – 256.
* Potability Studies of Ground Water Samples Of Dindigul City, Tamil Nadu, India, K.Jayaraj, M.Muthu kumar and Anitha pius, IJRAR, 6 (2) (2019) 172 – 182.
* Cellulose acetate based biopolymeric mixed matrix membranes with various nanoparticles for environmental remediation-A comparative study, Rajeswari, E Jackcina Stobel Christy, GIC Mary, K. Jayaraj, Anitha Pius, Journal of Environmental Chemical Engineering, 7(4) (2019) 103278.
* 3D Hydrogel derived from bio-waste for environmental applications, E. Jackcina Stobel Christy,K. Jayaraj, A. Rajeswari and Anitha Pius, International Journal of Research and Analytical Reviews 6 (2019) 49-58.

**BOOK CHAPTERS**

* Metallic based biomaterials for dental implant systems - A review, K. Jayaraj and Anitha Pius, Fundamental Biomaterials: Metals, (2018), Elsevier.
* Microscopic Studies on Chitin and Chitosan based IPNs, Gels, Blends, Composites and Nano composites.,K. Jayaraj, Sreerag Gopi, A. Rajeswari, E. Jackcina stobel Christy and Anitha Pius, Handbook of Chitin and Chitosan Volume : 2 (2020), Elsevier.
* Characterization studies of polymer - based composites related to functionalized filler - matrix interface; A. Rajeswari,E. Jackcina Stobel Christy, Sreerag Gopi, K. Jayaraj and Anitha Pius; Book Name: Interfaces in Particle and Fibre Reinforced Composites, Woodhead publishing (2019)Elsevier.
* Current research on the blends of chitosan as new biomaterials; A. Rajeswari, Sreerag Gopi, E.Jackcina Stobel Christy, K. Jayaraj and Anitha Pius; Handbook of Chitin and Chitosan; (2019), Elsevier

**HONORS AND AWARDS**

* **Aqua Foundation’s Excellence Award- 2018,** under the category of Protection of the quality and supply of Fresh water Resources.
* **Best Senior Researcher Award** from Global Education and Corporate Leadership Award (**GECL-2019**) for his outstanding performance in research and teaching.

**ACHIEVEMENTS**

* Best teacher guide award by petroleum conservation research association in 2004.
* Best paper award in EGHD International conference at Bharatiar University Coimbatore in 2017.
* Best paper award in EGHD International conference at Bharatiar University Coimbatore in 2017.
* Best paper award in MINTSEM international conference at Annamalai University, Chidambaram in 2018.
* Awarded Ph. D in Chemistry under Dr.Anitha Pius, department of Chemistry,Gandhigram rural institute, Gandhigram, Dindigul,Tamilnādu, India.