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AREA OF SPECIALIZATION:

- Bioprocess Engineering
- Advanced Oxidation Process
- Chemical Reaction Engineering
- Environmental Engineering

PUBLICATIONS:

1. V Dhanya, **D Balaji**, A Swetha, S Shri Vigneshwar,"A Comprehensive Review of Effective Adsorbents Used for the Removal of Dyes from Wastewater",Current Analytical Chemistry 2020
2. V Dhanya, **D Balaji**,"A Review on the Synergetic Effect of Plant Extracts on Nanomaterials for the Removal of Metals in Industrial Effluents",Current Analytical Chemistry2020
3. V Dhanya, G Kannappan Panchamoorthy, **D Balaji**," Biosorption of Metal Ions Present in Industrial Wastewater",Green Adsorbents to Remove Metals, Dyes and Boron from Polluted Water 49,2020
4. R Gnanasekaran, B Dhandapani, A Saravanan," Biosorption of methylene blue dye by chemically modified Aspergillus japonicus MG183814: kinetics, thermodynamic and equilibrium studies",DESALINATION AND WATER TREATMENT 122, 132-145,2018

5. **B Dhandapani**, S Mahadevan, M Shanmugavel,” Conversion of Agro By-Products to an Alkaline Protease by *Aspergillus tamarii* and the Usefulness of Its Metabolic Heat for Better Process Understanding”,Waste and Biomass Valorization,2019
6. V Dhanya, **D Balaji**, R Shankar Ram, P Prasanna Kumar,”Fabrication of surface-engineered superparamagnetic nanocomposites (Co/Fe/Mn) with biochar from groundnut waste residues for the elimination of copper and lead metal ions”,Journal of Nanostructure in Chemistry,2020
7. R Gnanasekaran, **B Dhandapani**, J Iyyappan,” Improved itaconic acid production by *Aspergillus niveus* using blended algal biomass hydrolysate and glycerol as substrates”,Bioresource technology 283, 297-302,2019
8. D Vishnu, **B Dhandapani**,”Integration of *Cynodon dactylon* and *Muraya koenigii* plant extracts in amino-functionalised silica-coated magnetic nanoparticle as an effective sorbent for the removal of ...IET nanobiotechnology 14 (6), 449-456,2020
9. MN kumar, K Senthilkumar, **B Dhandapani**, B Bharathiraja, JJ Joyal, .” Microbial Fuel Cell (MFC)-A review of Design components, Selection of Substrate and Microbes, Parameters affecting the Design and Applications”,GEDRAG & ORGANISATIE REVIEW 33 (02-2020), 2288-2317,2020
10. R Gnanasekaran, **B Dhandapani**, K Santhosh, D Venkateswaran, P Hari,” Next-generation itaconic acid production using novel *Aspergillus japonicas* from *Citrullus lanatus* rind through solid-state fermentation”,Bioresource Technology Reports,2020