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Recent Publications (last 5 years)

Rathankumar, A. K., **Vaithyanathan, V. K.**, Saikia, K., Anand, S. S., Kumar V.V., & Cabana, H. (2022) “Effect of alkaline treatment on the removal of contaminants of emerging concern from municipal biosolids: Modelling and optimization of process parameters using RSM and ANN coupled GA”, Chemosphere, 286, 131847. **(IF – 7.08)**

Vaithyanathan V.K., Kumar V.V., Cabana H., (2021) “Laccase-driven transformation of pesticides: towards bioremediation of biosolids & contaminated wastewaters”, Frontiers in Bioengineering and Biotechnology 9:770435. **(IF – 5.89)**

Vaithyanathan V.K., Kumar V.V., Cabana H., (2021) “Remediation of trace organic contaminants from biosolids: Influence of different pretreatment methodologies prior to Bacillus subtilis aerobic digestion”, Chemical Engineering Journal,419,129966. **(IF – 13.2)**

Vaithyanathan V.K., Savary O., Cabana H, (2021) “Performance evaluation of biocatalytic and biostimulation approaches for the remediation of trace organic contaminants in municipal biosolids”, Waste Management, 120, 373-381. **(IF – 7.1)**

Saikia K., Kumar A.K.R., Kumar V.V., Cabana H., **Vaithyanathan V.K.**, (2021) “Preparation of highly diffusible porous cross-linked lipase B from Candida antarctica conjugates: Advances in mass transfer and application in transesterification of 5-Hydroxymethylfurfural”, Journal of Biological Macromolecules, 170, 583 – 592. **(IF –6.9)**

Vaithyanathan V.K and Cabana H, (2021) Integrated Biotechnology Management of Biosolids: Sustainable Ways to Produce Value—Added Products, Book Title - Decentralized Wastewater Treatment and Resources Recovery, Frontiers. Water 3:729679

Vaithyanathan V.K., Ravi S., Kumar V.V., Cabana H, (2020) “Utilization of biosolids for glucose oxidase production: A potential bio-Fenton reagent for advanced oxidation process for removal of pharmaceutically active compounds”, *Journal of Environmental Management*, 271, 110995. **(IF – 6.7)**

Vaithyanathan V.K., Kumar A.K.R., Cabana H., (2020) Immobilized Laccase: A Promising Bioremediation Tool for the Removal of Organic Contaminants in Wastewater, Book Title - Laccases in Bioremediation and Waste Valorisation, *Microbiology Monographs*, 33, ISBN: 978-3-030-47905.

Kumar A.K.R., Saikia K., **Vaithyanathan V.K.**, Cabana H., Kumar V.V., (2020) “Development of efficient and sustainable added-value products from municipal biosolids through an industrially feasible process”, *Journal of Cleaner Production*, 266, 121749. **(IF – 9.2)**

Ariste A, Batista-García R.A., **Vaithyanathan V.K.**, Raman N., Kumar V.V., Folch-Mallol J.L., Jackson S. A., Dobson A. D.W., Cabana H, (2020) “Mycoremediation of phenols and polycyclic aromatic hydrocarbons from a biorefinery wastewater and concomitant production of lignin modifying enzymes”, *Journal of Cleaner Production*, 253, 119810. **(IF – 9.2)**