

- development of a suitable biosorbent. *World Journal of Microbiology and Biotechnology*. DOI 10.1007/s11274-016-2069-5. 2016.
- [32] E. Fosso-Kankeu, H. Mittal, S. Marx and S.S. Ray, Hydrogel-based biofloculants for the removal of organic pollutants from biodiesel wastewater. *Journal of Polymer and Environment*. DOI 10.1007/s10924-016-0870-8. 2016.
- [33] E. Fosso-Kankeu, H. Mittal, F. Waanders, S.S. Ray, Thermodynamic properties and adsorption behaviour of hydrogel nanocomposites for cadmium removal from mine effluents. *Journal of Industrial and Engineering Chemistry*. Vol. 48, pp. 151-161, 2017. <https://doi.org/10.1016/j.jiec.2016.12.033>
- [34] E. Fosso-Kankeu, F.B. Waanders, F.W. Steyn, Removal of Cr(VI) and Zn(II) from an aqueous solution using an organic-inorganic composite of bentonite-biochar-hematite. *Desalination and Water Treatment*. Vol. 59, pp. 144-153, 2017.
- [35] E. Fosso-Kankeu, 2018. Synthesized af-PFCl and GG-g-P(AN)/TEOS hydrogel composite used in hybridized technique applied for AMD treatment. *Journal of Physics and Chemistry of the Earth*. 2018.
- [36] A. Leudjo Taka, E. Fosso-Kankeu, K. Pillay, X. Yangkou Mbianda, Removal of cobalt and lead ions from wastewater samples using an insoluble nanosponge biopolymer composite: Adsorption isotherms, kinetics, thermodynamics and regeneration studies. *Environmental Science and Pollution Research*. 2018.



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