

Also, at alkaline pH, the efficiency of MPCAC was better in LAS removal than PCAC. Based on the results, almost complete removal LAS was achieved under the optimum conditions. The LAS removal percentage increases with improving ozonation time in COP (O_3 /MPCAC and O_3 /PCAC) and SOP (O_3). The findings evidently showed that compared to the PCAC, COP could enhance the degradability and decrease the initial dosage using MPCAC. Concluding, this nanocomposite is an effective active catalyst for mineralization and degradation of LAS in COP. Based on our results, a mechanism was suggested for removal of LAS.

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