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Preparation and Study of a Composite Flocculant for Papermaking Wastewater Treatment

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Author(s)

Defang Zeng, Dan Hu, Jie Cheng

ABSTRACT

A high flocculation performance composite flocculant was prepared with sodium alginate, polyaluminium ferric chloride and cationic polyacrylamide. And the composite flocculant was used in papermaking wastewater treatment. Results indicated that it achieve the best flocculation performance when the raw material mass ratio was 2:1:1, the dosage of the composite flocculant was 20 mg/L, and the removal efficiency of COD and turbidity with this composite flocculant reached 89.6% and 99.2%, respectively.

KEYWORDS

Sodium Alginate, Polyaluminium Ferric Chloride, Cationic Polyacrylamide, Flocculation

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