

Figures:

Fig. 1 The FTIR spectral of: CBF (1) and MCBF (2)

Fig. 2 Effect of MCBF dose and dosing sequence on: residual turbidity (a), UV_{254} removal (b), DOC removal (c) and zeta potential (d) for HA simulated water treatment

Fig. 3 Effect of MCBF dose and dosing sequence on: residual turbidity (a), UV_{278} removal (b), DOC removal (c) and zeta potential (d) for FA simulated water treatment

Fig. 4 Change in floc growth rate vs. coagulant dose with different coagulants for simulated water treatment: HA (a) and FA (b)

Fig. 5 Variation of floc size d_1 , d_2 and d_3 as a function of coagulant dose with different coagulants for simulated water treatment: HA (a) and FA (b)

Fig. 6 Change in S_f and R_f vs. coagulant dose with different coagulants for simulated water treatment: HA (a) and FA (b)