

Supporting Information

Highly efficient removal for methylene blue and Cu²⁺ onto UiO-66 MOF/carboxylated graphene oxide incorporated sodium alginate beads

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Table S1 Adsorption thermodynamic parameters of the adsorption of both MB and Cu²⁺ onto UiO-66 /GOCOOH @SA composite beads

Pollutant	Temperature (K)	ΔG° (kJ/mol)	ΔH° (kJ/mol)	ΔS° (J/mol. K)
MB	298	-6.386		
	308	-7.172		
	318	-7.959	17.046	78.631
	328	-8.745		
Cu²⁺	298	-2.222		
	308	-2.741		
	318	-3.260	13.234	51.868
	328	-3.778		

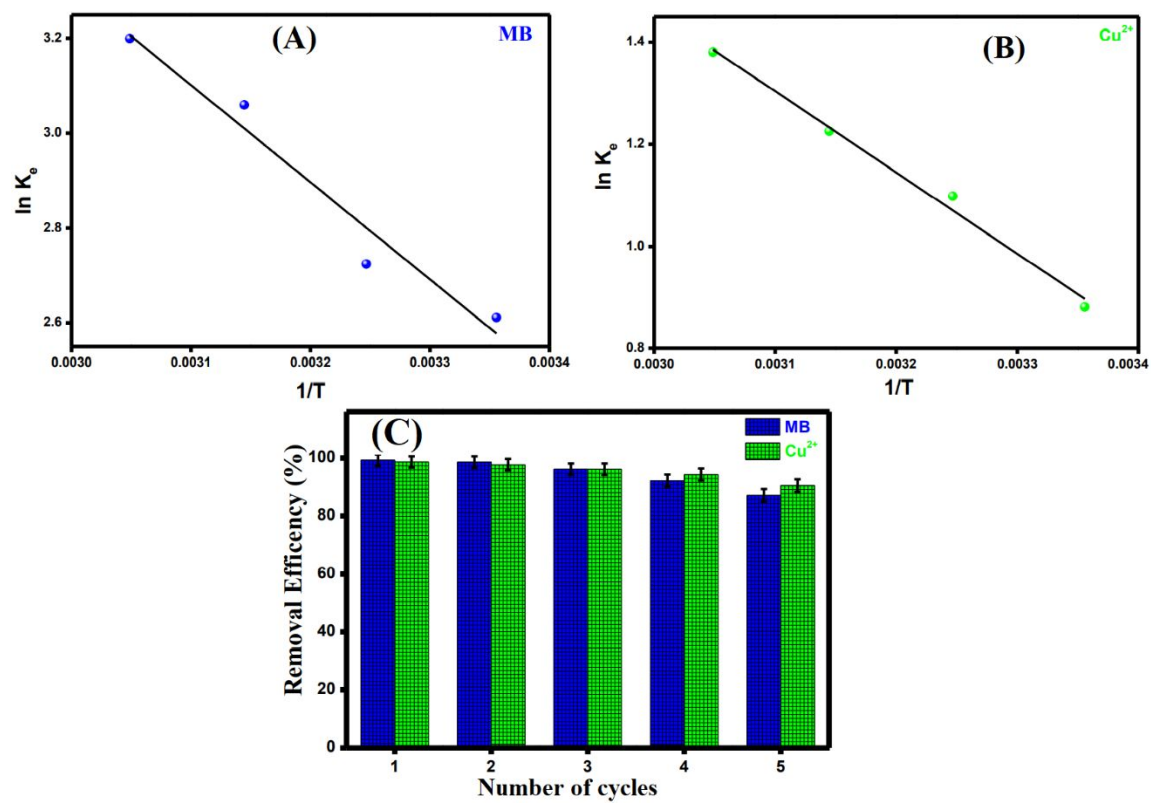


Figure S1 Van't Hoff plots (A, B) and the reusability (C) for the adsorption of MB and Cu^{2+} onto UiO-66/GOCOOH@SA composite beads.