Electronic Supplementary Information

Nano-micelles Based on Rosin Derivative as Potent Sorbents and Sinking Agents with High Absorption Capability for Removal of Metal Ions

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Table S1. Assignment of main spectral peaks based on their energies (BE) and related content (RC) for original TEPA-MPA and TEPA-MPA after adsorption of metal ions.

Element	Original TEPA-MPA		TEPA-MPA after adsorption of Ni(Ⅱ)		TEPA-MPA after adsorption of Cu(Ⅱ)		TEPA-MPA after adsorption of Cr(Ⅲ)		assignments
	BE (eV)	RC (%)	BE (eV)	RC (%)	BE (eV)	RC (%)	BE (eV)	RC (%)	
N 1s	398.89	64.15	399.99	75.63	400.32	87.80	399.95	59.08	$-NH_2$,-NH
N 1s	400.95	35.85	401.05	24.37	401.72	12.20	401.75	40.92	$-NH_3^+$
C 1s	282.80	46.50	284.79	62.52	284.81	62.52	284.80	69.87	C-C
C 1s	285.61	43.78	285.80	28.87	286.03	22.90	286.16	18.78	C-N, C-O
C 1s	287.48	10.71	288.19	8.61	288.53	7.01	288.46	11.35	C=O
O 1s	530.78	45.95	532.24	64.22	532.21	59.00	532.20	66.32	C=O
O 1s	531.94	54.05	533.29	35.78	533.11	41.00	533.50	33.68	C-O