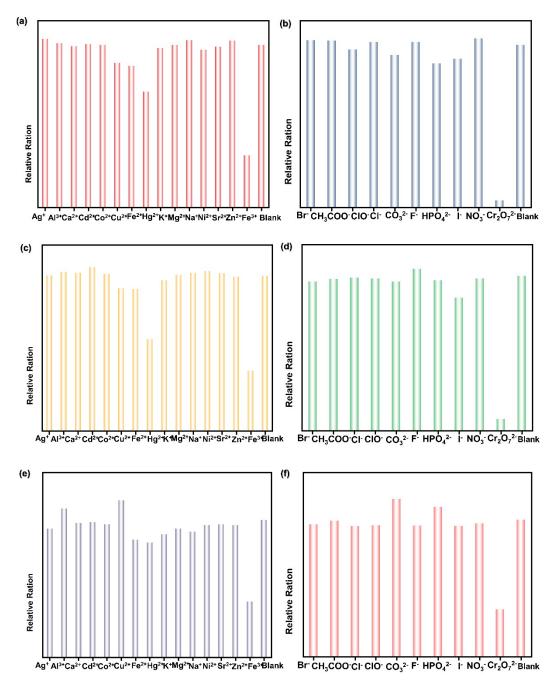
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**Figure S8.** Relative ratio of (a) DUT-52-COOH composite dispersed in aqueous solutions with different metal cations (1 mM). (b) DUT-52-COOH composite dispersed in aqueous solutions with different anions (1 mM). (c) DUT-52 composite dispersed in aqueous solutions with different metal cations (1 mM). (d) DUT-52 composite dispersed in aqueous solutions with different anions (1 mM). (e) H<sub>2</sub>NDC dispersed in aqueous solutions with different metal cations (1 mM). (f) H<sub>2</sub>NDC composite dispersed in aqueous solutions with different anions (1 mM).