Electronic Supplementary Material (ESI) for Nanoscale

Sacrificial template-directed synthesis of mesoporous manganese oxide architectures with superior performance for organic dye adsorption

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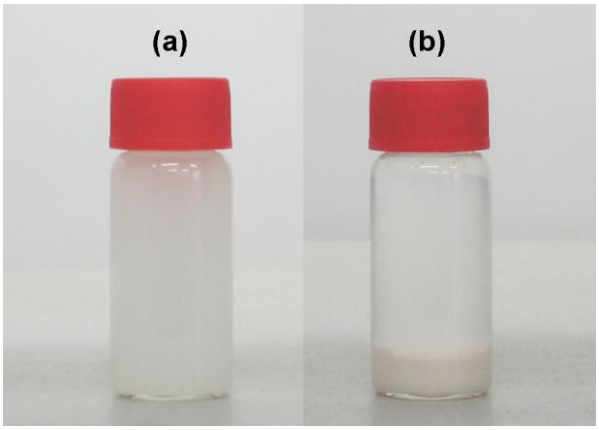

Fig. S1 Natural settlement of the MgO architectures suspended in water for 10 min

Table S1. Kinetic parameters for the adsorption of CR on the MgO architectures

		Pseudo-first-order			Pseudo-second-order		
C_0 (mg L^{-1})	$q_{e,exp}$ (mg g^{-1})	k_1 (min^{-1})	$q_{e,cal}$ (mg g^{-1})	R^2	k_2 (g mg^{-1} min^{-1})	$q_{e,cal}$ (mg g^{-1})	R^2
160	395.6	0.0684	11.36	0.9036	0.0188	396.8	1
200	492.2	0.0594	51.28	0.9728	0.0036	495.1	1
250	586.0	0.0221	67.94	0.9672	0.0011	595.2	0.9997

Table S2. Isotherm parameters for the adsorption of CR on the MgO architectures

Langmuir			Freundlich		
b (L mg^{-1})	q_m (mg g^{-1})	R^2	K_f	n	R^2
2.221	689.7	0.9954	353.8	6.706	0.8327