Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C.

Surporting Information

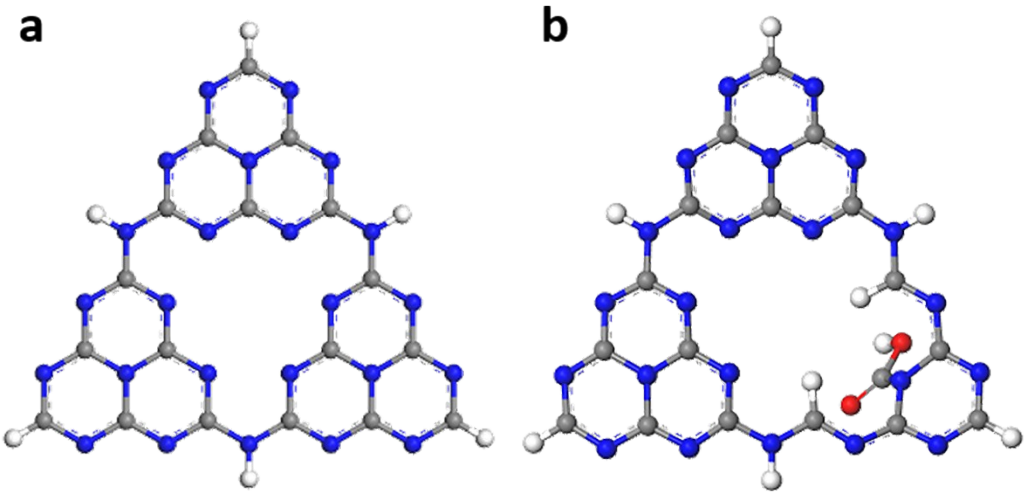

Figure S1. Structural models of (a) pristine g-C_3N_4 and (b) nano-CNO used in the theoretical calculations.

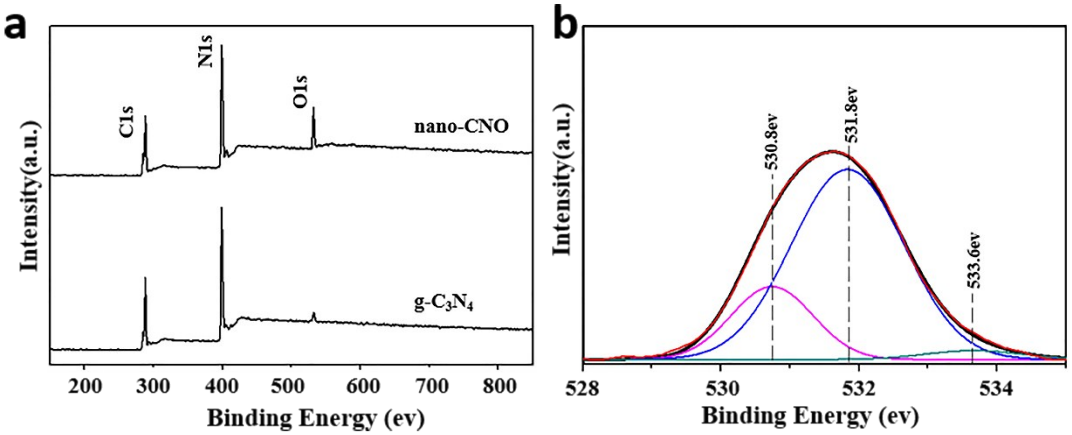

Figure S2. XPS spectra of (a) pristine g-C_3N_4 and nano-CNO, and (b) the O1s spectrum of nano-CNO, 530.8 eV (C=O), 531.8 eV (C-O), 533.6 eV (N-O).

Table S1. Values of fluorescence lifetime for nano-CNO with various concentrations of Cr(VI).

Concentration of Cr(VI) (μM)	τ_1(ns)	B_1	τ_2(ns)	B_2	τ_3(ns)	B_3	τ(ns)
0	8.6118	0.246	37.2836	0.3252	0.3742	0.4288	14.40359
10	2.9138	0.2567	13.323	0.2318	0.3098	0.5114	3.994676
20	2.2422	0.1953	11.032	0.2129	0.3011	0.5917	2.964775
35	1.3305	0.1514	9.3681	0.1301	0.2923	0.7185	1.630245
50	1.2646	0.0909	8.7087	0.0851	0.3569	0.8239	1.150112

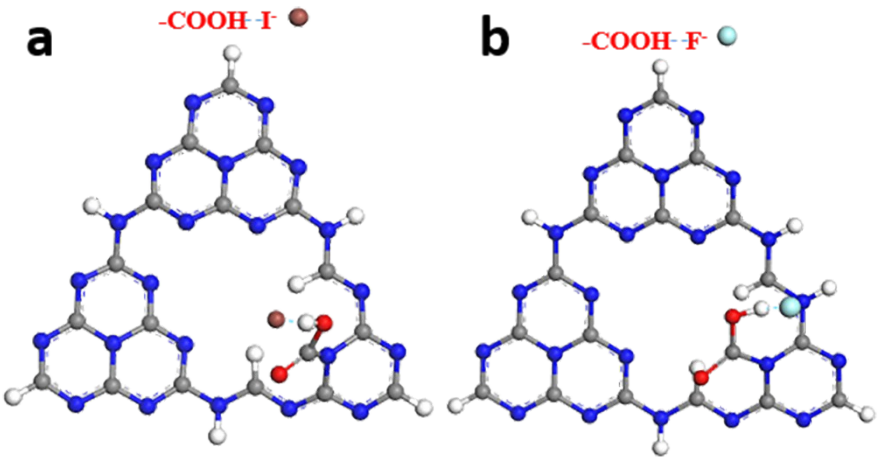

Figure S3. Structural models of nano-CNO bonded with (a) I^- and (b) F^-.