

Supporting Information

Table S1. Polydispersity index (PDI) of ACs

Aminoclay	PDI
FeAC	0.253
CuAC	0.247
CoAC	0.231
ZnAC	0.344
NiAC	0.381
CeAC	0.336
MnAC	0.444

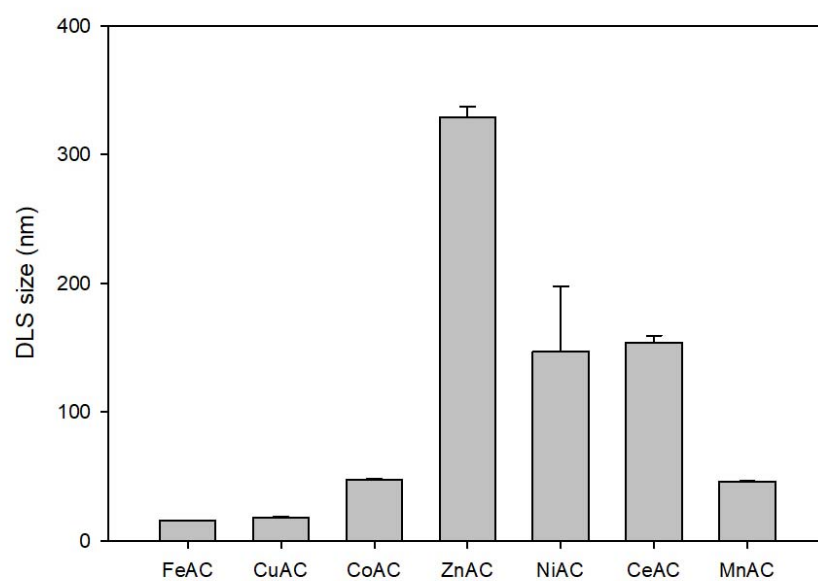
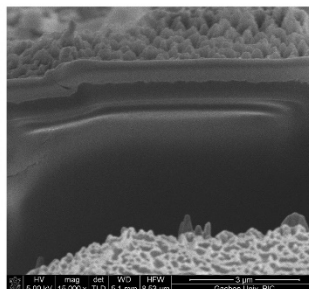
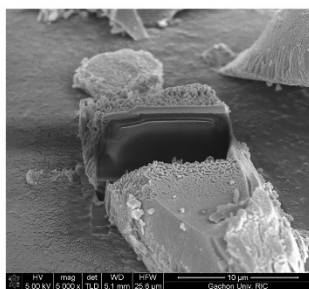
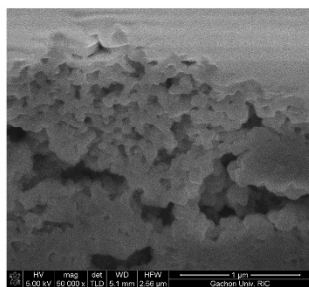
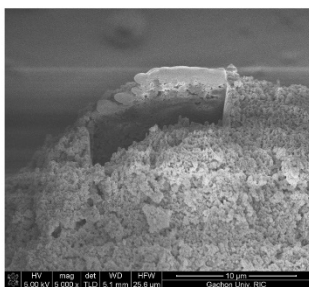


Figure S1. The size distribution of ACs

CoAC



CeAC



MnAC

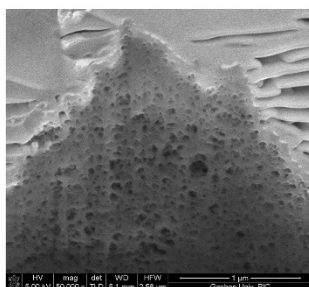
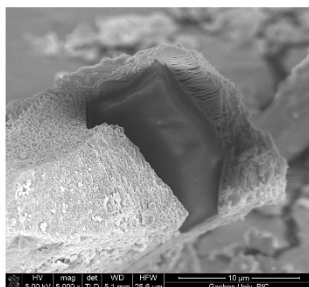


Figure S2. Focus ion beam scanning electron microscope (FIB-SEM) images of ACs

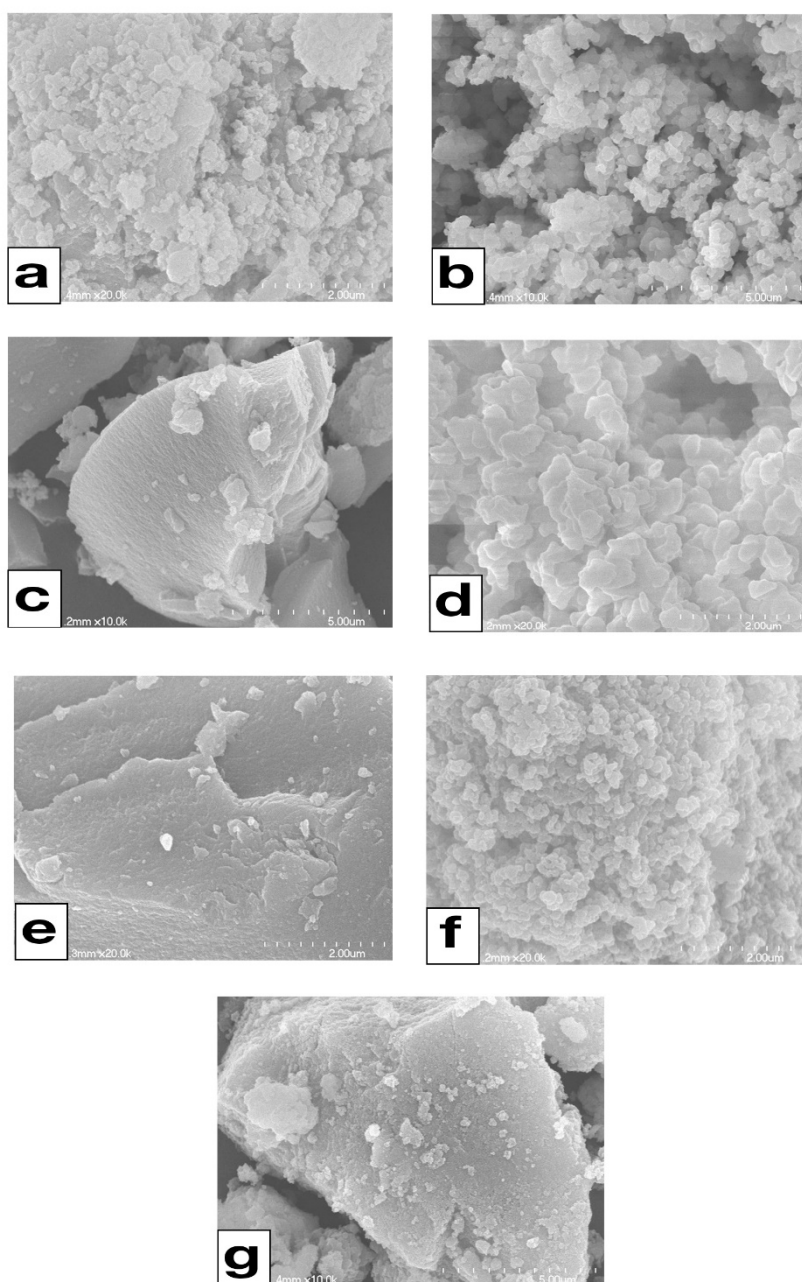
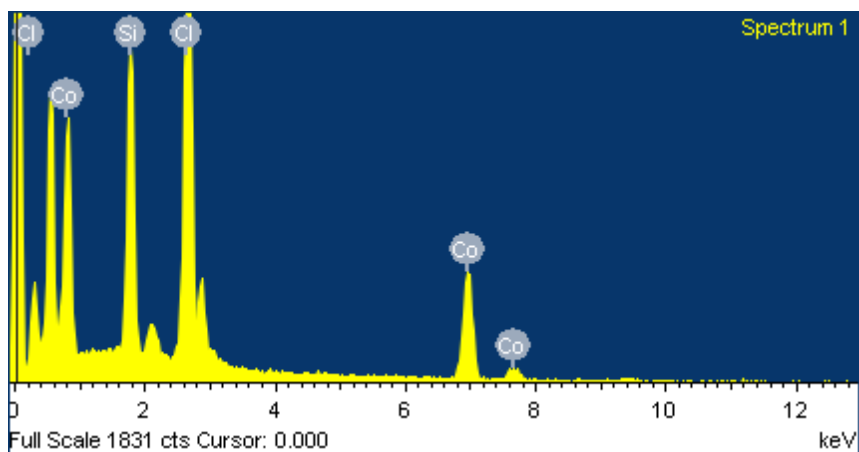


Figure S3. Scanning electron microscope (SEM) images of FeAC (a), CuAC (b), CoAC (c), ZnAC (d), NiAC (e), CeAC (f), and MnAC (g).



Element	Weight%	Atomic%
Si K	18.10	26.48
Cl K	35.52	41.17
Co K	46.39	32.35
Totals	100.00	

Figure S4. Energy-dispersive X-ray (EDX) data of CoAC

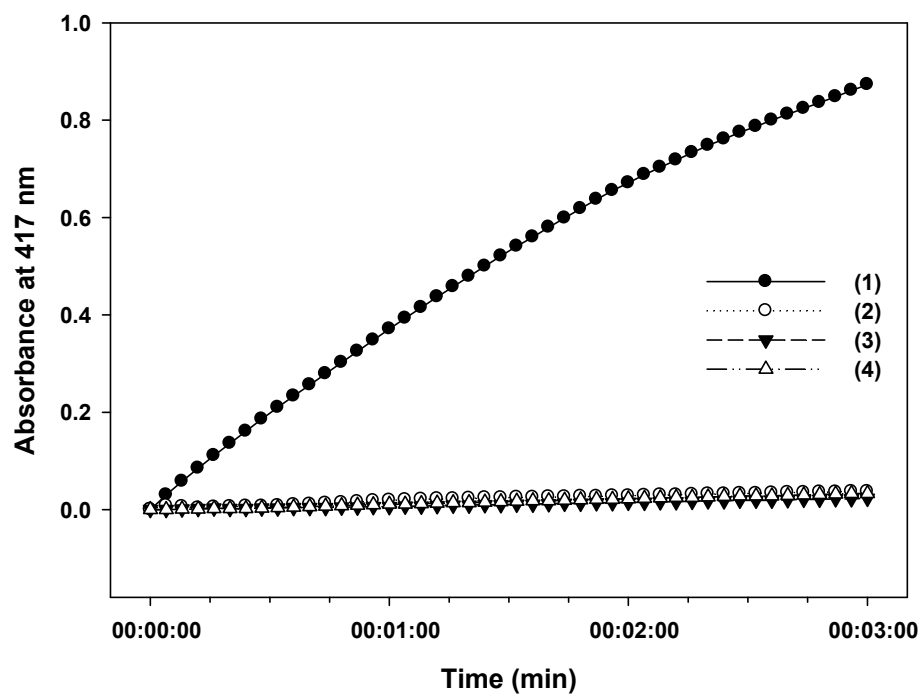


Figure S5. Time-dependent absorbance changes at 417nm. Sample specifications are as follows. 1) CoAC with H_2O_2 , 2), 3), and 4) represent the reactions containing CoCl_2 (10%, 20%, and 30% compared to the concentration of CoAC, respectively) with H_2O_2 .

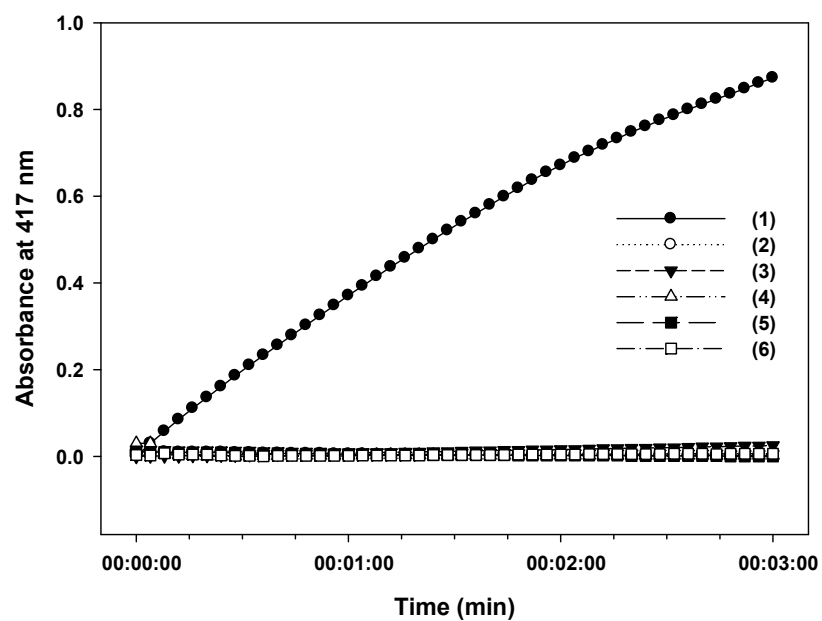


Figure S6. Time-dependent absorbance changes at 417 nm. Sample specifications are as follows. 1) CoAC with H_2O_2 , 2), 3), 4), 5), and 6) represent the reactions containing supernatant solutions after incubating CoAC for 1 hour in five different buffers (pH 2, 4, 6, 8, and 10 with 0.1 M Tris-acetate, respectively) with H_2O_2 .