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Supplementary Materials

Asymmetric Supercapacitors Using Porous Carbons and Iron Oxide Electrodes Derived From a Single Fe Metal-Organic Framework

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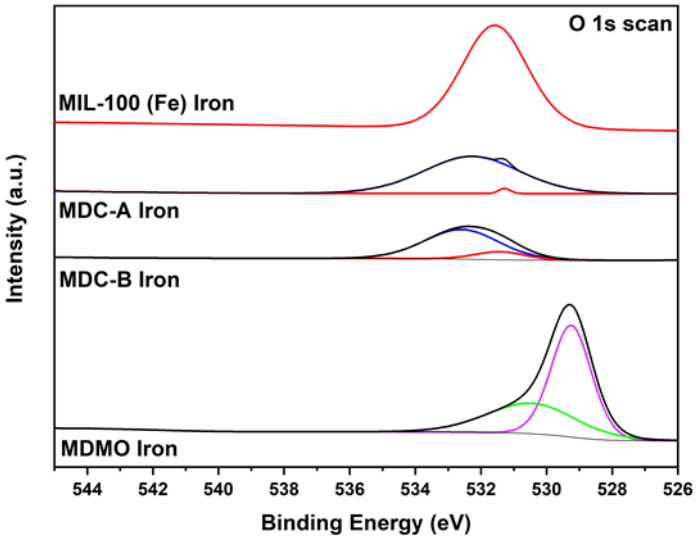

Figure S1. O 1s spectra of MIL-100(Fe) iron, MDC-A, MDC-B and MDMO.

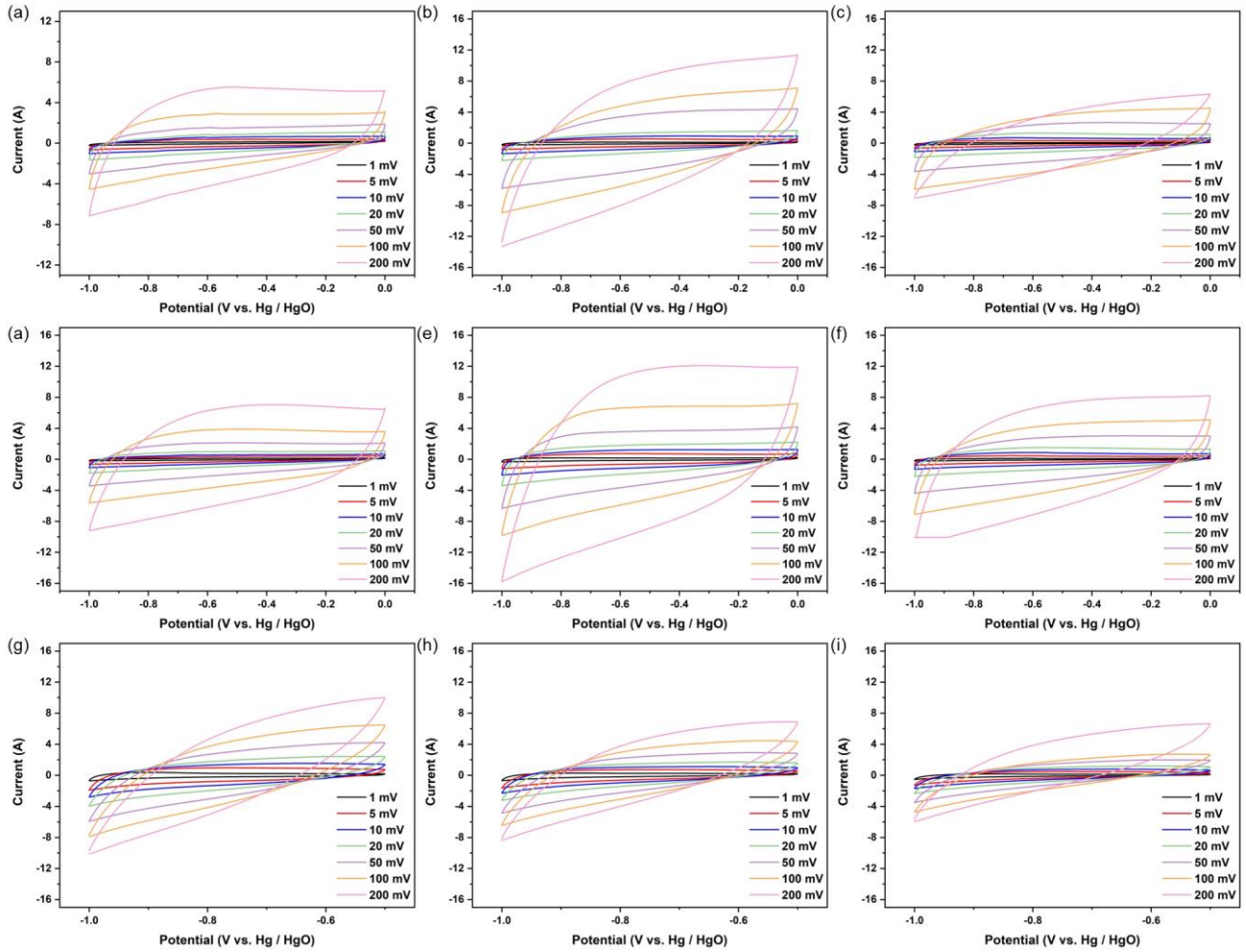

Figure S2. The three-electrode electrochemical performances of MIL-100 (Fe) derivatives: CV curves at different scan rates (1-200 mVs^{-1}) : (a) MDC-A iron; (b) MDC-A nitrate (c) MDC-A chloride; (d) MDC-B iron; (e) MDC-B nitrate; (f) MDC-B chloride; (g) MDMO iron; (h) MDMO nitrate; (i) MDMO chloride.

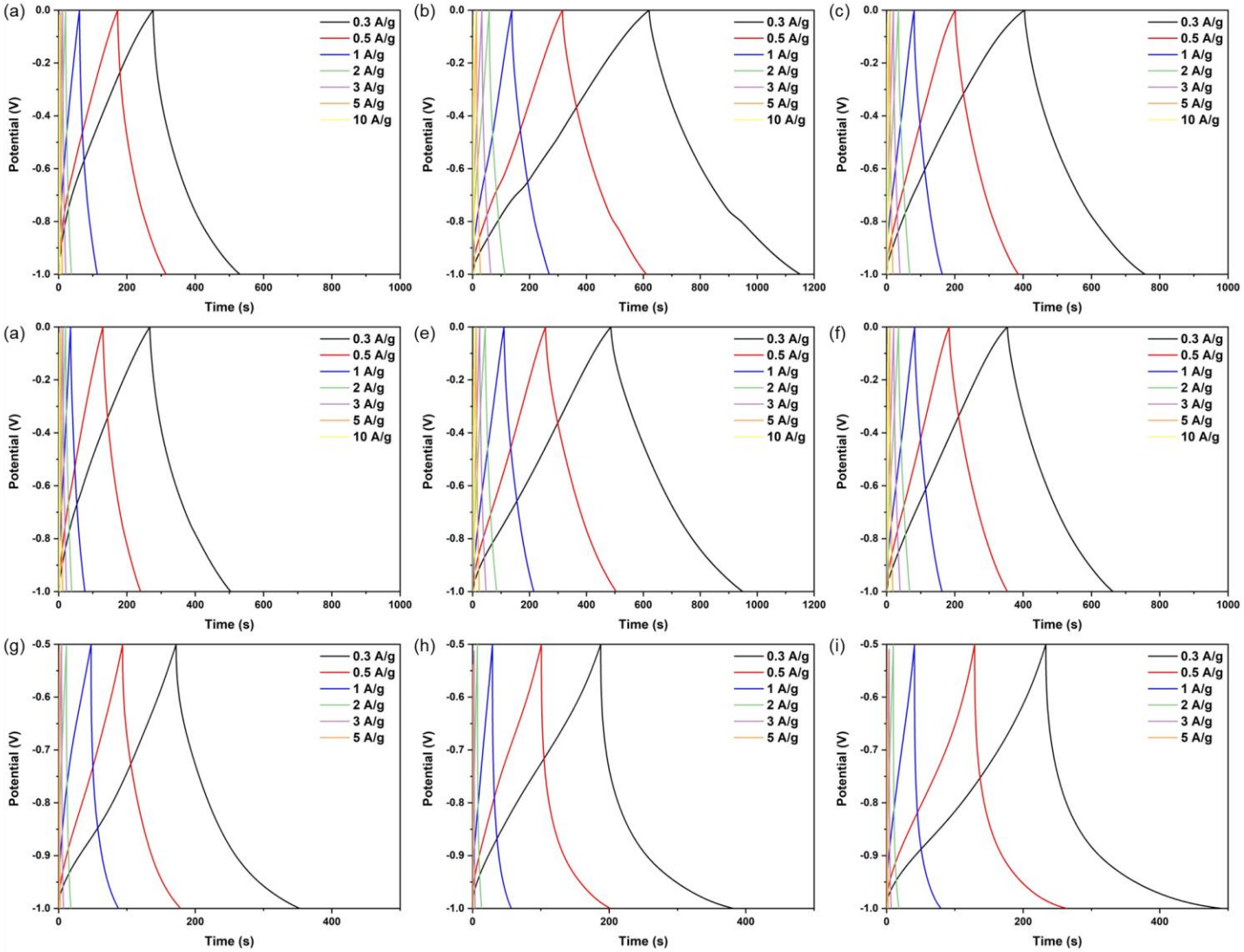

Figure S3. The three-electrode electrochemical performances of MIL-100 (Fe) derivatives: GCD curves at different current densities (0.3-5 Ag^{-1}) : (a) MDC-A iron; (b) MDC-A nitrate (c) MDC-A chloride; (d) MDC-B iron; (e) MDC-B nitrate; (f) MDC-B chloride; (g) MDMO iron; (h) MDMO nitrate; (i) MDMO chloride.

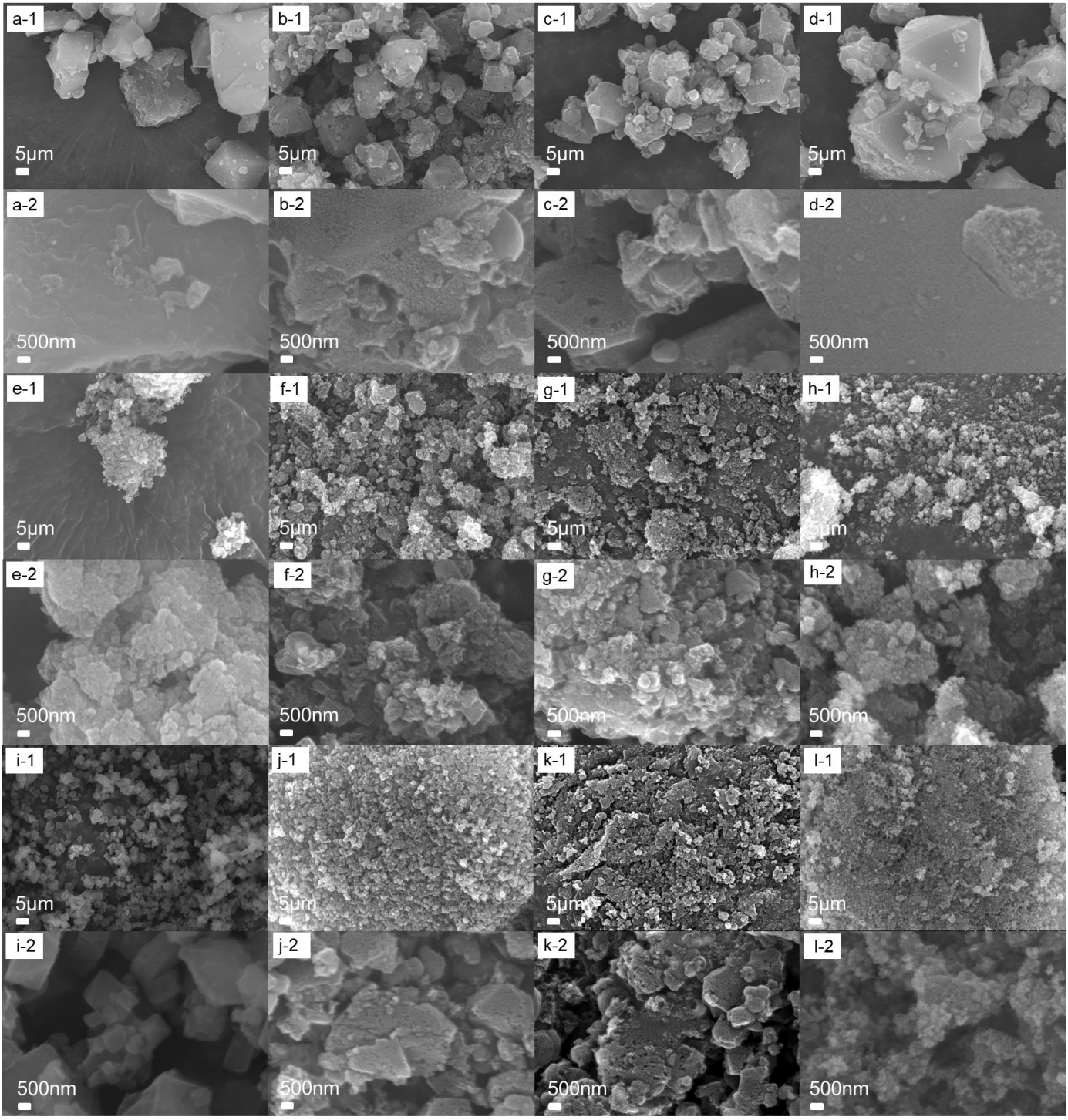

Figure S4. SEM images of low (-1) and high magnification (-2): (a) MIL-100 (Fe) iron; (b) MDC-A iron; (c) MDC-B iron; (d) MDMO iron; (e) MIL-100(Fe) nitrate; (f) MDC-A nitrate; (g) MDC-B nitrate; (h) MDMO nitrate; (i) MIL-100 (Fe) chloride; (j) MDC-A chloride; (k) MDC-B chloride; (l) MDMO chloride.

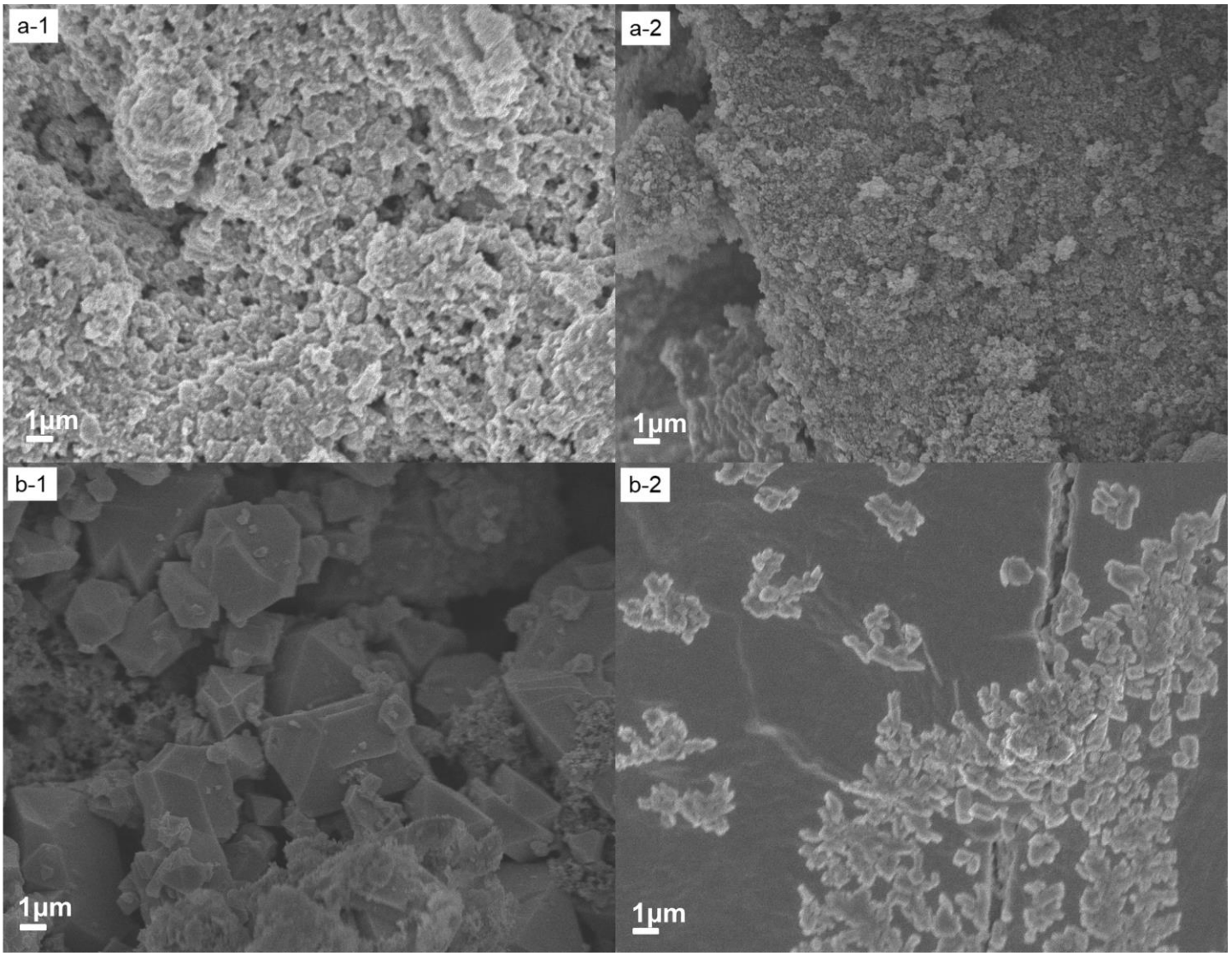

Figure S5. SEM images of before cycling test (-1) and after cycling test (-2): (a) MDC-A nitrate; (b) MDMO iron.

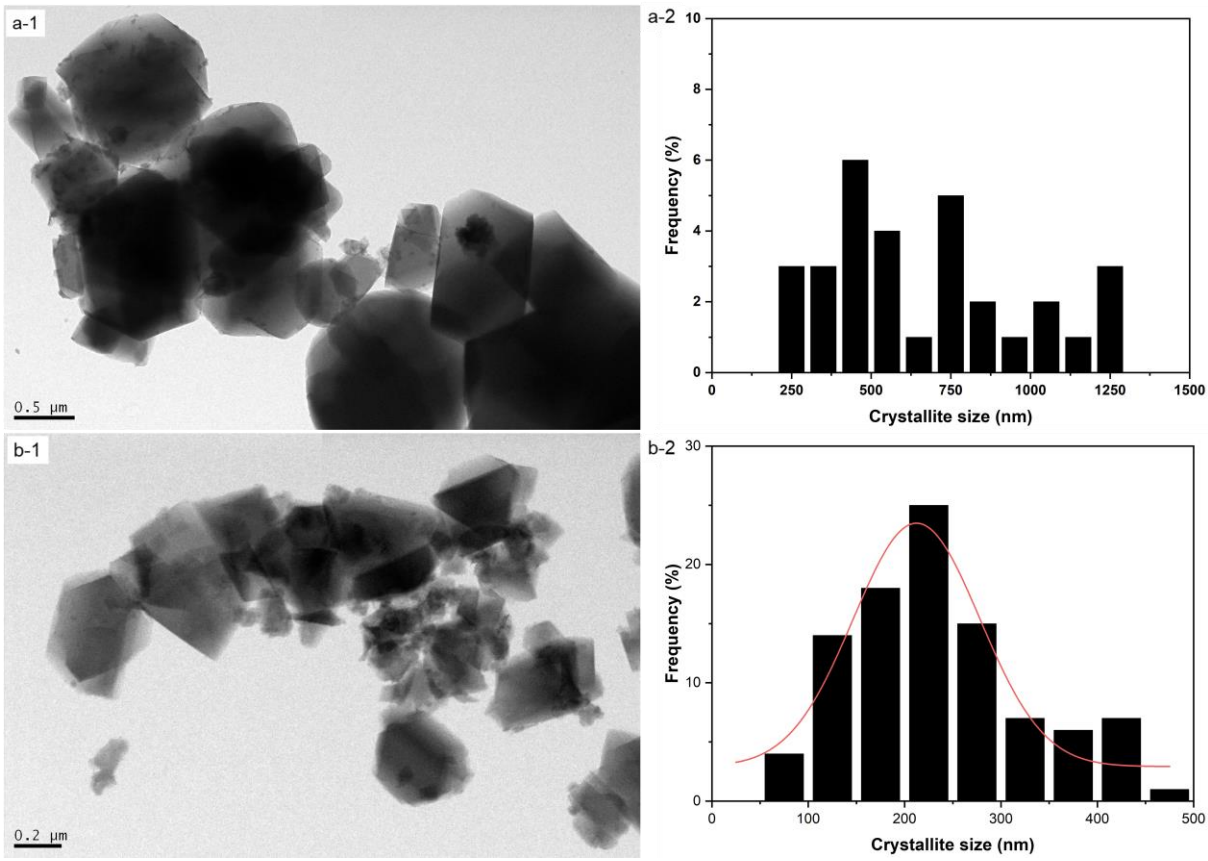

Figure S6. TEM images (-1) and crystallite size distribution (-2): (a) MIL-100 (Fe) iron; (b) MIL-100 (Fe) chloride.