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## Asymmetric configuration of pseudocapacitive composite electrodes for enhanced capacitive deionization

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Figure S1 Water contact angle images of A: MFO-rGO; B: MnO<sub>2</sub>-rGO



Figure S2 TEM images A: TEM images for MFO-rGO nanocomposite and B: TEM image for  $MnO_2$ -rGO nanocomposite



Figure S3 Raman spectra for GO and rGO



Figure S4 Performance tradeoff relationships for different electrode pairs: MFO-rGO / rGO; MnO<sub>2</sub>-rGO / rGO; and MFO-rGO / MnO<sub>2</sub>-rGO. With no energy recovery. The separation conditions are identical for every data point:  $\langle \Delta c \rangle = 12.5 \text{ mg/L}$ ,  $c_{\text{feed}} = 50 \text{ mg/L}$ , WR = 50 %.