

Supplementary Material for

A Facile Synthetic Approach Toward Obtaining N-doped Carbon Quantum Dots from Citric Acid and Amino Acids, and Their Application in Selective Detection of Fe(III) Ions

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Content of listed material

Figure S1. Integrated fluorescence intensity vs. absorbance of CQDs samples (recorded at $\lambda_{\text{EX}}=360$ nm); calculated quantum yields (QY) of synthesized samples of CQDs using quinine sulfate as reference standard ($\phi_{\text{QS}} = 54\%$).

Figure S2. TEM images of CQD@Leu; inset: size distribution diagram and HR-TEM image of CQD@Leu

Figure S3. TEM image of CQD@Leu showing amorphous structure of CQDs.

Figure S4. The proposed energy-level diagrams for (A) CQD@Blank and (B) CQD@Leu.

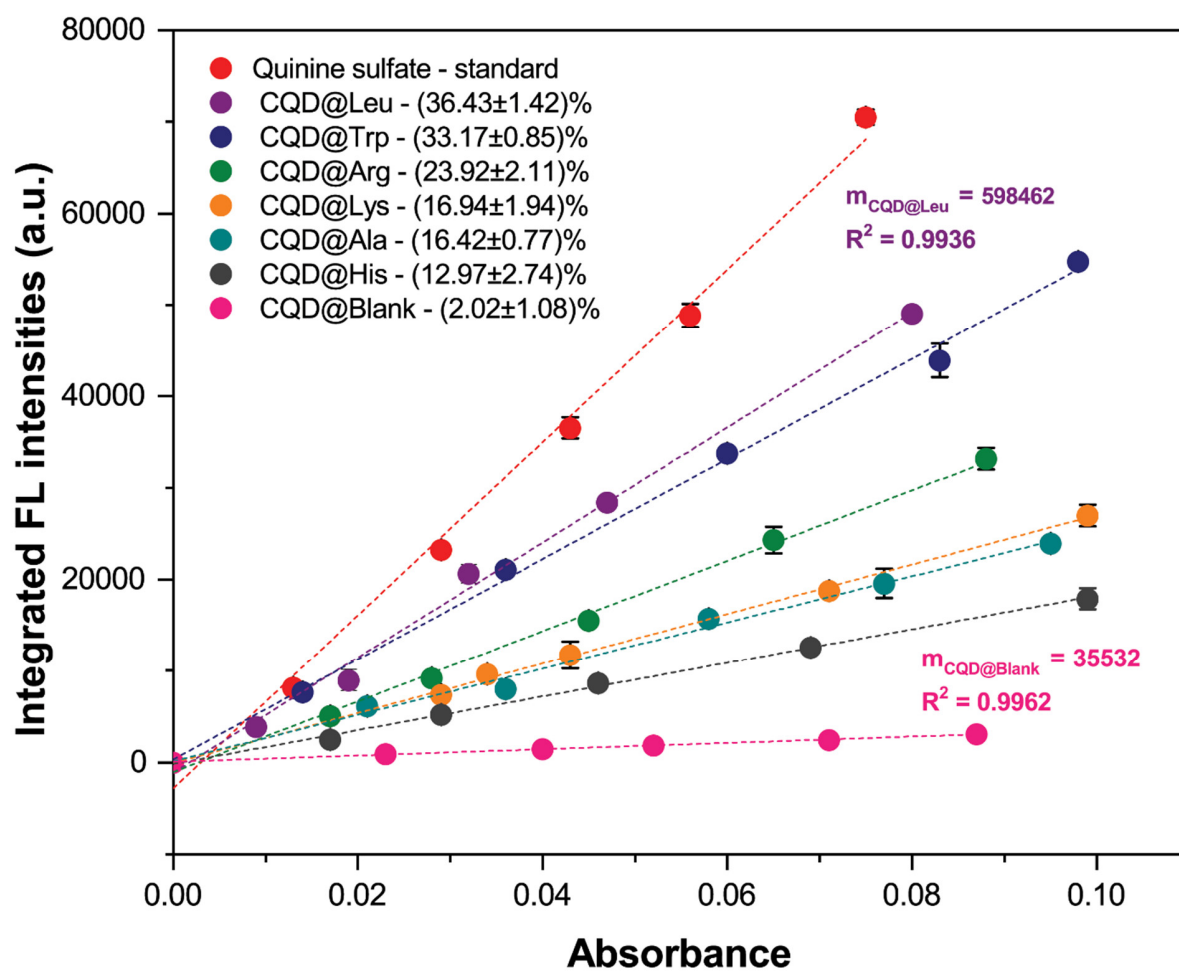


Figure S1

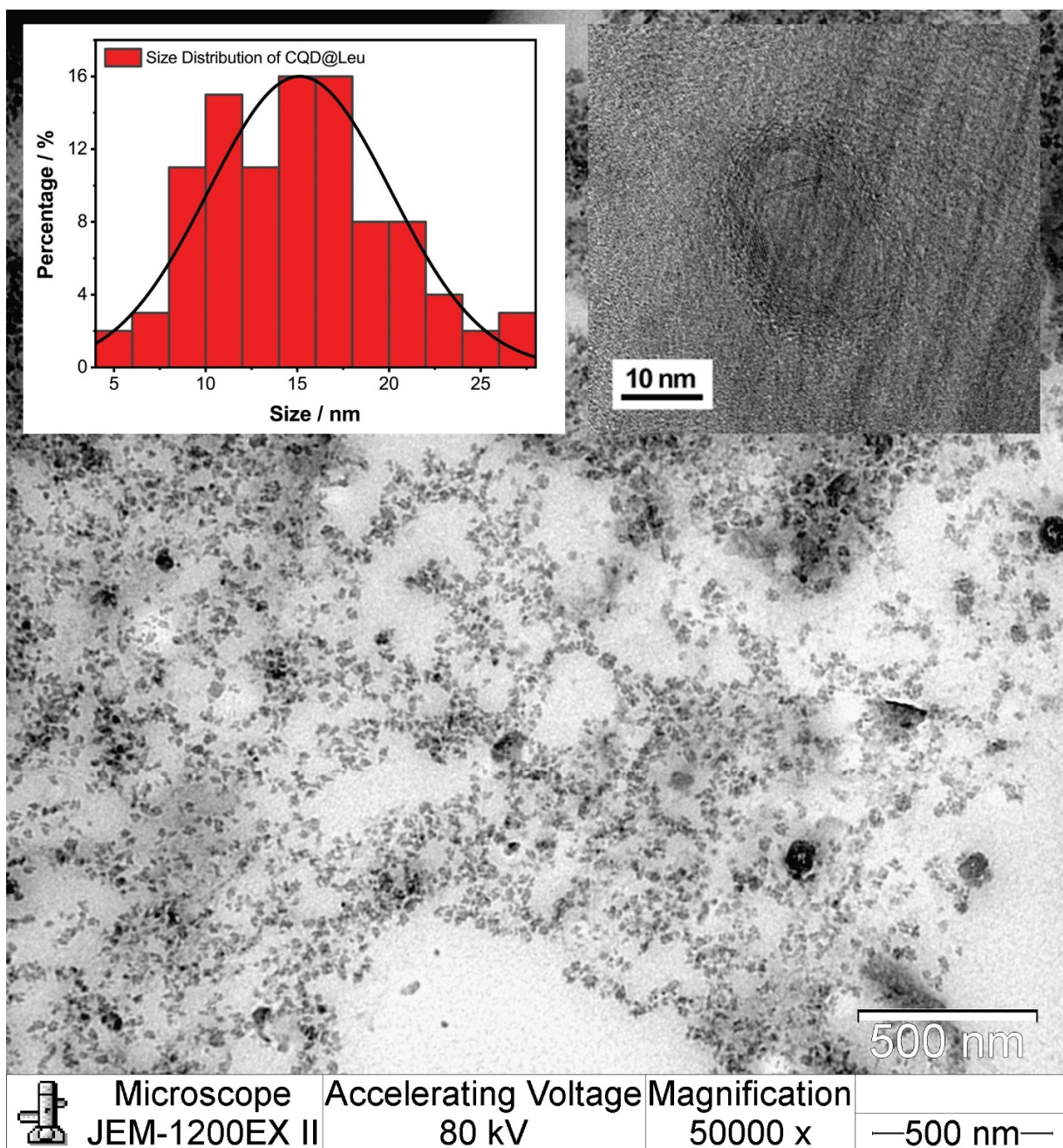


Figure S2

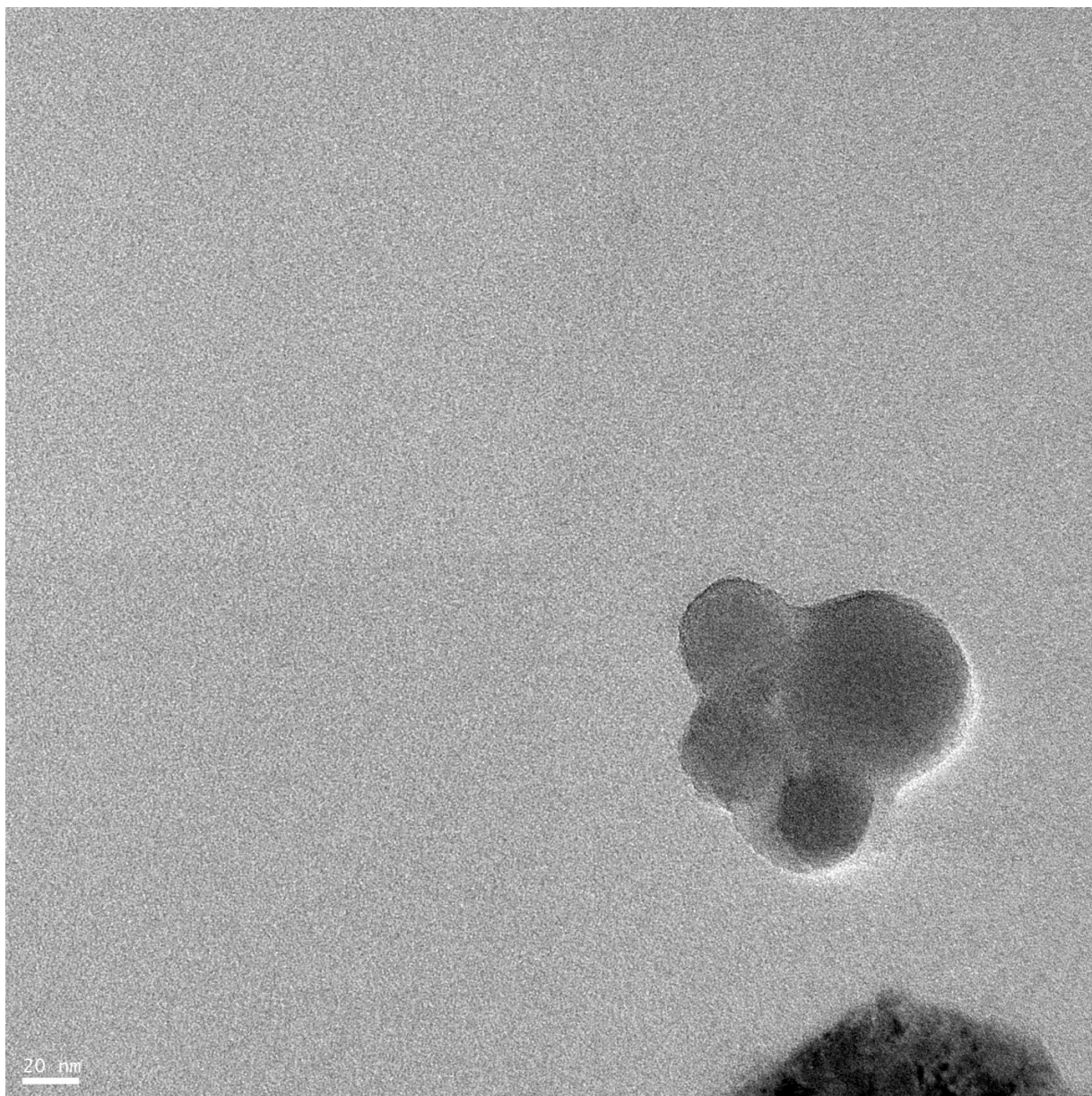


Figure S3

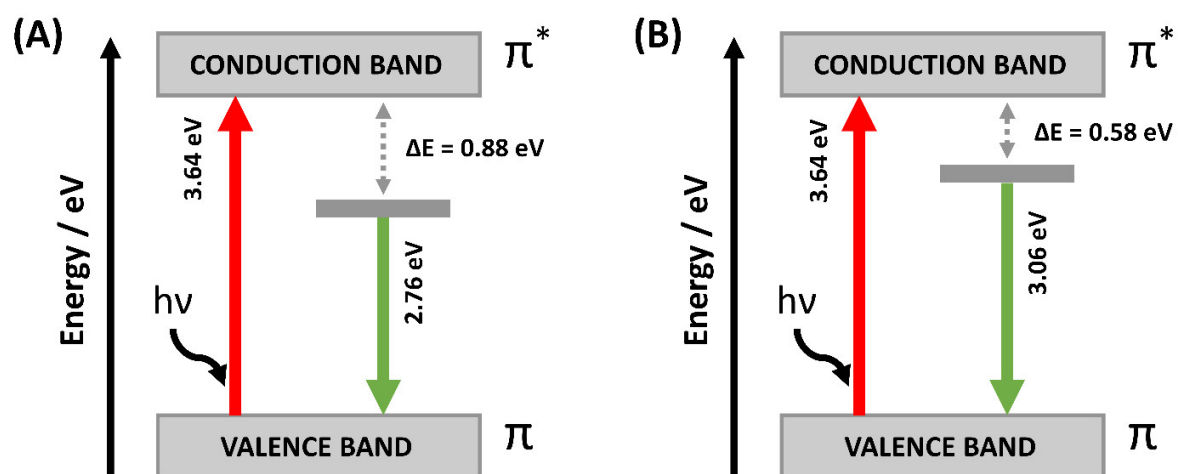


Figure S4