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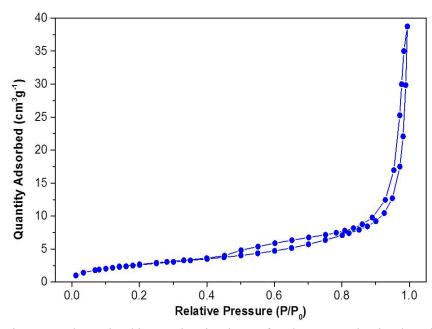


Figure S1: Nitrogen adsorption/desorption isotherm for the as-synthesized pyrite FeS_2 after solvothermal reaction at 180 °C for 18 h.

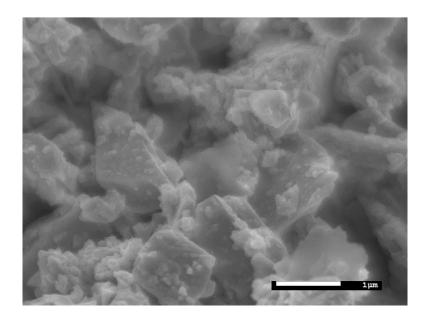


Figure S2: FESEM of the grinded commercial iron pyrite mineral.

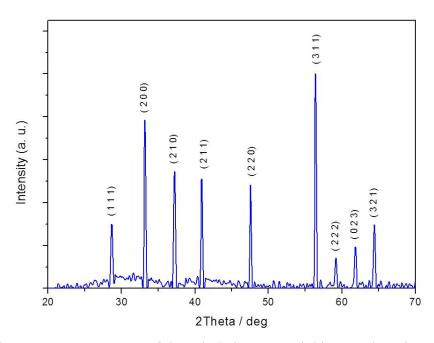


Figure S3: XRD pattern of the grinded commercial iron pyrite mineral.