

# Visible Light–Near-Infrared Photodetection on Cys-MoO<sub>3-x</sub> Nanoparticles for Photothermal Therapy against Papillary Thyroid Carcinoma

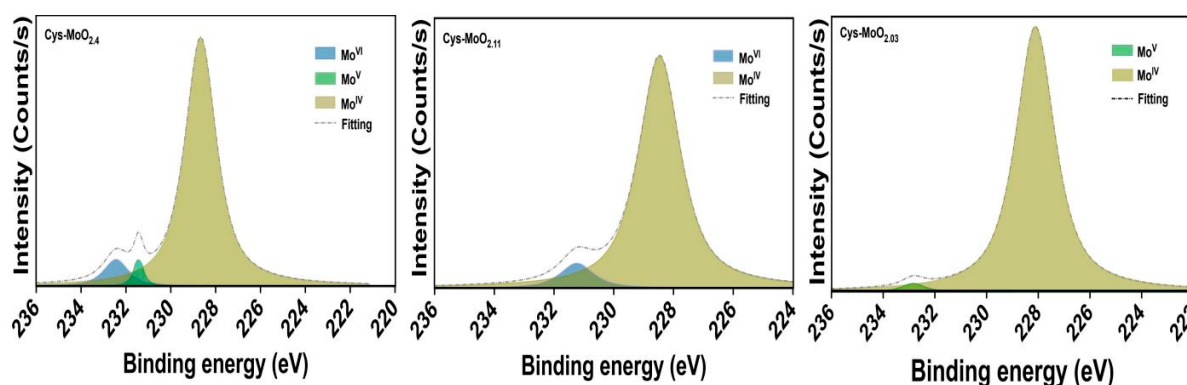
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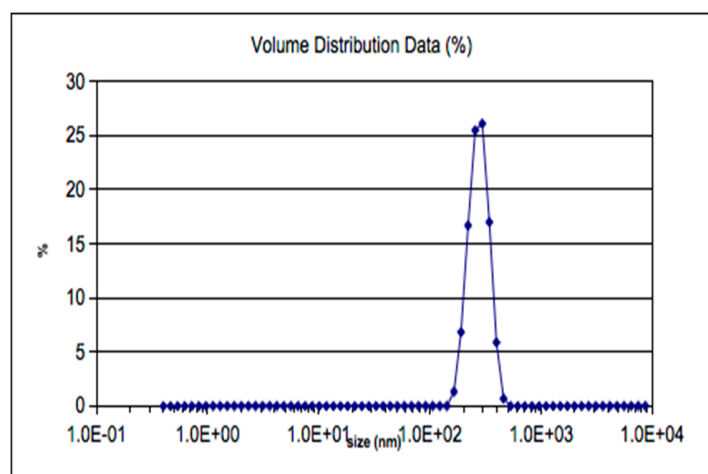
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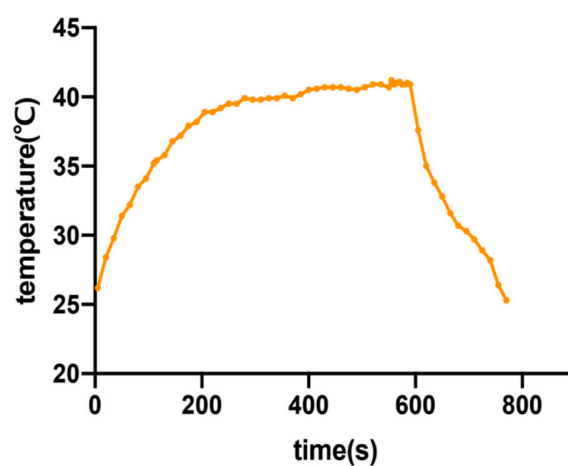
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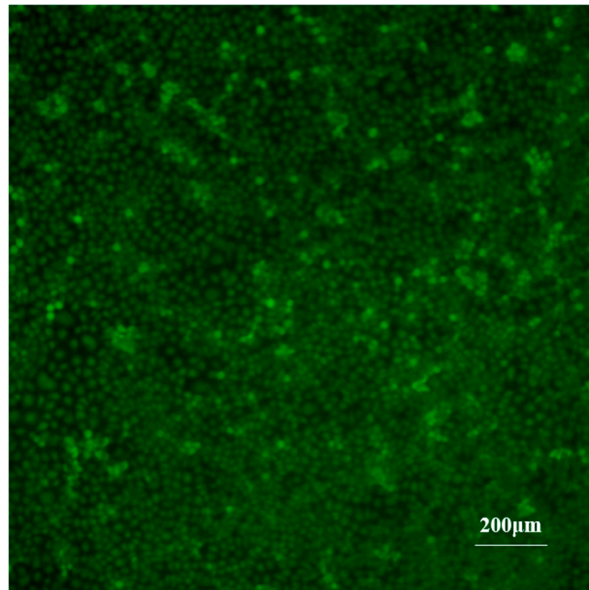
**Figure S1.** Typical XPS measurements of Cys-MoO<sub>3-x</sub> of the blue sample respectively 10 mg, 20 mg and 40 mg cysteine, the actual solutions of NPs mixture are Cys-MoO<sub>2.4</sub>, Cys-MoO<sub>2.11</sub> and Cys-MoO<sub>2.03</sub>



**Figure S2.** Hydrodynamic diameters of MoO<sub>3</sub> solution without cysteine reduction, the smallest is 268.9 nm.



**Figure S3.** Temperature versus time curves of Cys-MoO<sub>2</sub> under 808 nm radiation and its relaxation behaviors after turning off the laser on 600 (s) point.



**Figure S4.** Cell cultured with original medium but no NPs medicine and laser irradiation.