Photo-assisted oxidation of thiols to disulfides using cobalt “Nanorust” in visible light

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**Fig. S1** N$_2$ adsorption desorption isotherm and pore size distribution of a) CeO$_2$ b) CoPc@CeO$_2$ and c) CoO$_x$-C,N@CeO$_2$
Fig. S2: SEM image of a) meso-CeO$_2$; b) CoPc@CeO$_2$; c) CoOx-C,N@CeO$_2$; and EDX pattern of d) CeO$_2$; e) CoPc@CeO$_2$; and d) nanorust CoOx-C,N@CeO$_2$