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Synthesis of sandwich-like molybdenum sulfide/mesoporous organosilica nanosheets for photo-thermal conversion and stimuli-responsive drug release

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Abstract: Sandwich-like molybdenum sulfide/mesoporous organosilica nanosheets (denoted as MoS₂@MOS) have been prepared for the first time via direct growth of ethane-bridged mesostructured organosilica on MoS₂ nanosheets by using cetyltrimethylammonium bromide (CTAB) as structure directing agent. The obtained MoS₂@MOS nanosheets possess well-defined sandwich-like structure, high surface

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