

**Supporting Information**  
**for**  
**Impact of Covalent Functionalization on the Aqueous Processability, Catalytic Activity**  
**and Biocompatibility of Chemically Exfoliated MoS<sub>2</sub> Nanosheets**

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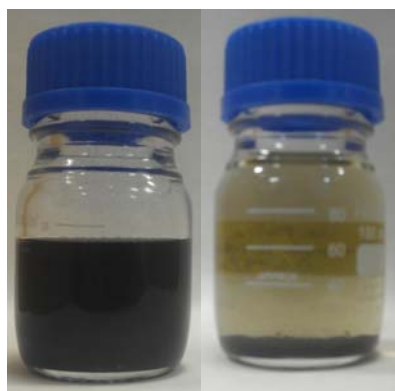
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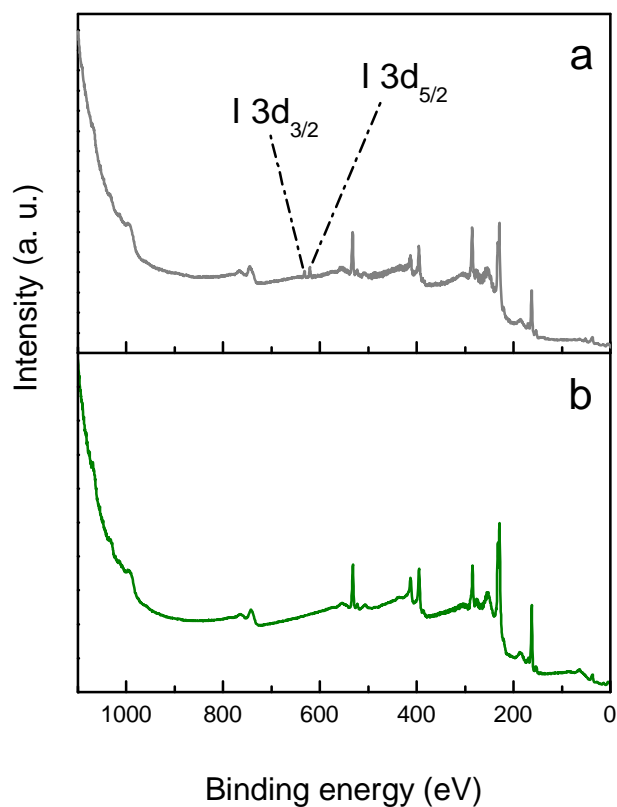
- S1. Evidence for the limited colloidal stability of as-prepared aqueous dispersions of ce-MoS<sub>2</sub>
- S2. Survey XPS spectra of ce-MoS<sub>2</sub> treated with iodomethanesulfonic and iodoacetic acid

**S1. Evidence for the limited colloidal stability of as-prepared aqueous dispersions of ce-MoS<sub>2</sub>**



**Figure S1.** Digital photographs of an aqueous dispersion of ce-MoS<sub>2</sub> at a concentration of  $\sim 0.8 \text{ mg mL}^{-1}$  just prepared (left) and 3 weeks after its preparation (right).

**S2. Survey XPS spectra of ce-MoS<sub>2</sub> treated with iodomethanesulfonic and iodoacetic acid**



**Figure S2.** XPS survey spectra of ce-MoS<sub>2</sub> treated with (a) iodomethanesulfonic acid and with (b) iodoacetic acid.