Preparation of h-MoO$_3$ and α-MoO$_3$ nanocrystals: Comparative study on photo catalytic degradation of methylene blue under visible light irradiation

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(ESI†) S1 XRD pattern of as-synthesized h-MoO$_3$ NCs
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(ESI†) S2 XRD pattern of (a) as-synthesized h-MoO$_3$ NCs and samples annealed at (b) 150 °C, (c) 250 °C, (d) 350 °C, and (e) 450 °C for 1h.
Preparation of h-MoO₃ and α-MoO₃ nanocrystals: Comparative study on photo catalytic degradation of methylene blue under visible light irradiation

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10 (ESI†) S3 FT-IR spectra of (a) as-synthesized h-MoO₃ NCs and samples annealed (b) 150 °C, (c) 250 °C, (d) 350 °C, and (e) 450 °C for 1h
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10 (ESI†) S4 FESEM images of h-MoO$_3$ sample annealed (b) 150 °C, (c) 250 °C, (d) 350 °C, and (e) 450 °C for 1h
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UV-Vis spectra of MB without catalyst in H$_2$O under (a) dark, (b) visible and (c) UV irradiation
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(ESI†) S6 Spectral evaluation of the effect of catalyst concentration (a) 50; (b) 100 and (c) 200 mgL$^{-1}$ of h-MoO$_3$ NCs on MB degradation
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ESI† S7 Spectral evaluation of the effect of dye concentration (a) 8; (b) 12 and (c) 16 mgL$^{-1}$ of MB on MB degradation
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Spectral evaluation of the effect of visible light intensity (a) 150; (b) 250 and (c) 350 mWcm$^{-2}$ on MB degradation
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Spectral evaluation of the effect of operating temperature (a) room temperature (RT); (b) 45 °C and (c) 65 °C on MB degradation