Hydrothermal Fabrication of PbMoO$_4$ Microcrystals with Exposed (001) Facets and Its Enhanced Photocatalytic Properties

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**Fig. S1** XRD patterns of PbMoO$_4$ derived from different hydrothermal temperatures for 24 h in the absence of CTAB (a) and in the presence of CTAB (b).
Fig. S2 The structure model illustration of PbMoO$_4$ (3×3 lattices) (a) and the surface atomic configurations in the (100) (b), (010) (c) and (001) (d) facets.

Fig. S3 First-order plots for the photocatalytic degradation of RhB using various photocatalysts. (a): P25; (b): 0.0C-PbMoO$_4$; (c): 0.05C-PbMoO$_4$; (d): 0.1C-PbMoO$_4$; and (e): 0.5C-PbMoO$_4$. 