

Supporting information

High-surface-area plasmonic MoO_{3-x}: rational synthesis and enhanced ammonia borane dehydrogenation activity

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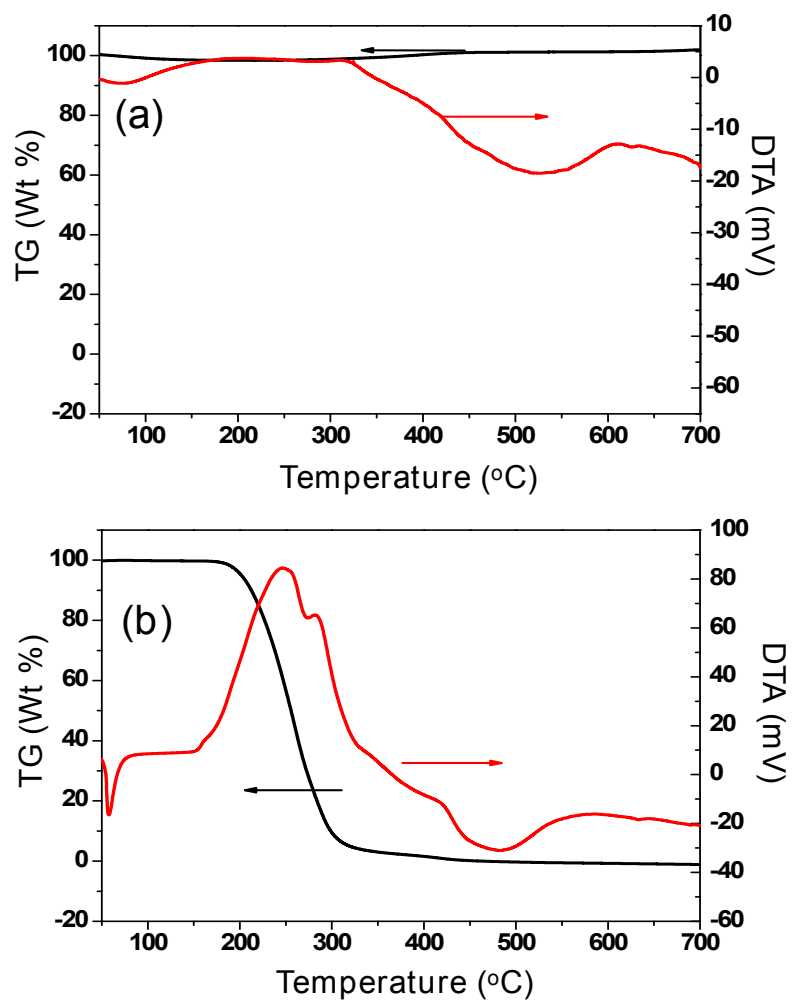


Figure S1. TG/DTA curves of $\text{MoO}_{3-x}-200\text{ }^\circ\text{C}$ (a) and F 127 (b) recorded in air.

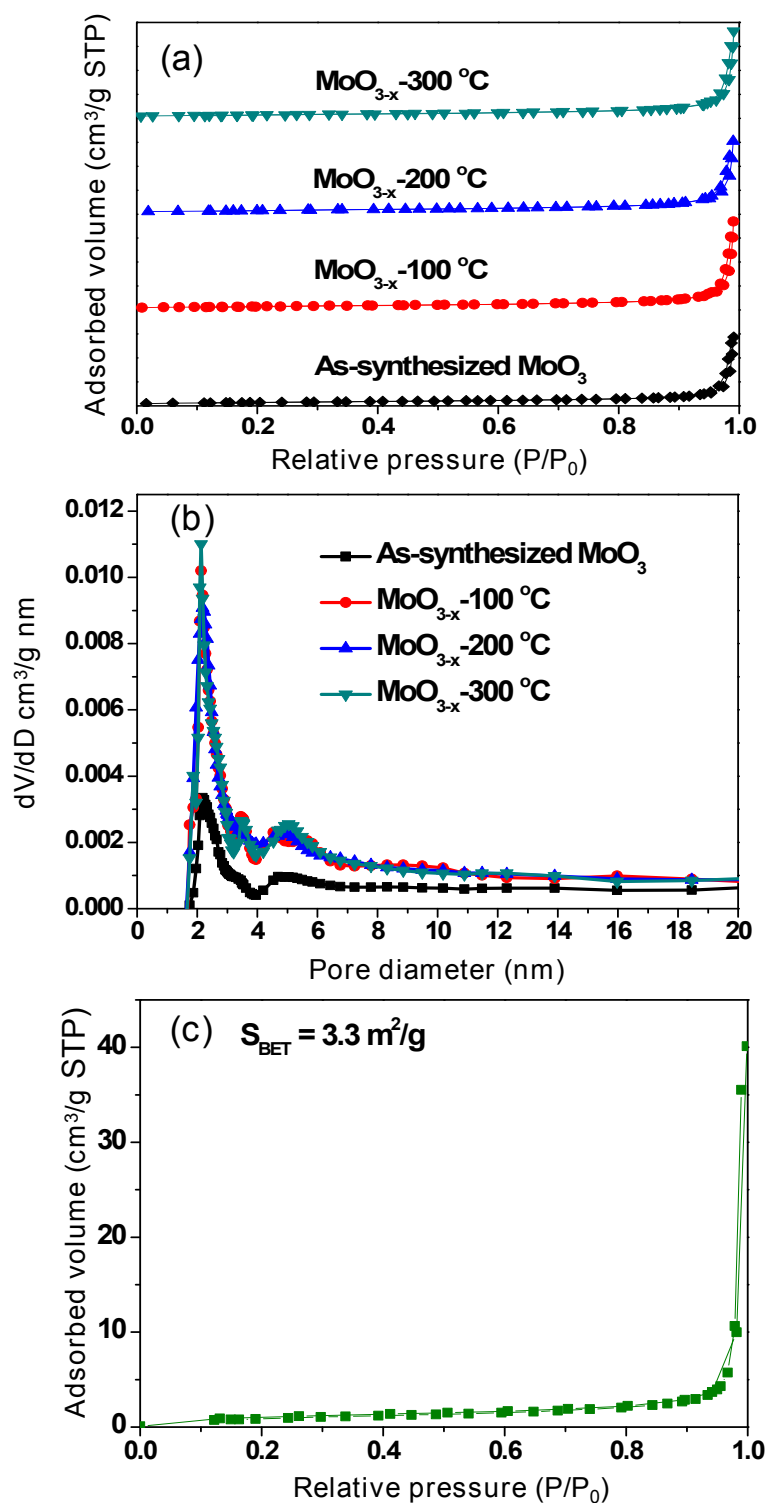


Figure S2. (a) N₂ adsorption-desorption isotherms, (b) the corresponding BJH pore size distribution curves of as-synthesized MoO₃ and MoO_{3-x}-T samples hydrogen-treated at different temperatures and (c) N₂ adsorption-desorption isotherms of MoO_{3-x} nanosheets (Route 1).

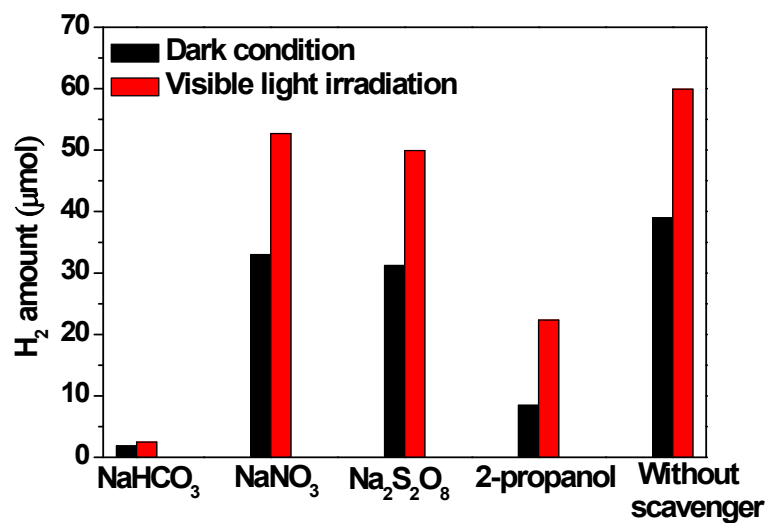


Figure S3. The comparison of H₂ production activity from AB solution with or without NaHCO₃ (100 μmol) as positive charge scavenger, 2-propanol (100 μmol) as .OH scavenger, NaNO₃ (100 μmol) and Na₂S₂O₈ (100 μmol) as negative charge scavenger over plasmonic MoO_{3-x}-200 °C sample.