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Supporting Information

Figure S1. Raman Profiles of different MoO₃-SnO₂ catalysts.



Fig S2-1. HRTEM images of M1.



Fig S2-2. HRTEM images of M1 after reaction.



Fig S2-3. HRTEM images of M5 after reaction.



Figure S3. CO₂-TPD profiles of different MoO₃-SnO₂ catalysts.



Figure S4. NH₃-TPD profiles of different MoO₃-SnO₂ catalysts.



Figure S5-1. Mo K-edge XAFS $X(\kappa)^* \kappa^3$ of MoO₃-SnO₂ catalysts after reaction.



Figure S5-2. Mo K-edge FT($X(k)^* k^3$) of MoO₃-SnO₂ catalysts after reaction.



Figure S6-1. Sn K-edge XAFS spectra of MoO₃-SnO₂ catalysts.



Figure S6-2. Sn K-edge XAFS x(k) * k3 of MoO₃-SnO₂ catalysts.



Fig. S7 XPS spectra of different MoO₃-SnO₂ catalysts after reaction



Fig. S8 ESR spectra of different MoO₃-SnO₂ catalysts after reaction.