

Supporting Information

Crystal structure and microstructure changes of molybdenum nitrides traced during catalytic reaction by in situ X-ray diffraction studies.

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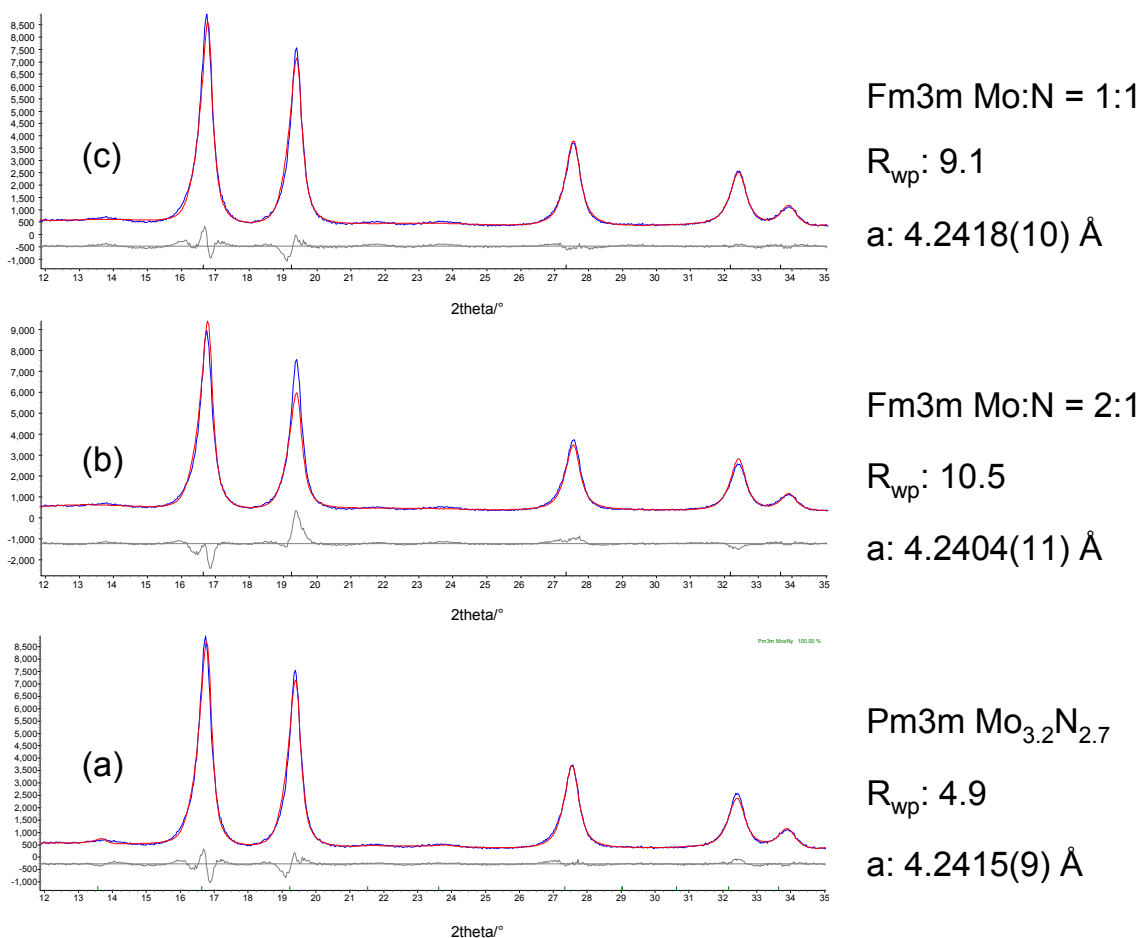


Fig. S1: ex situ diffraction pattern collected after ammonolysis at 800°C, Rietveld refinement plots based on different symmetries and stoichiometries.

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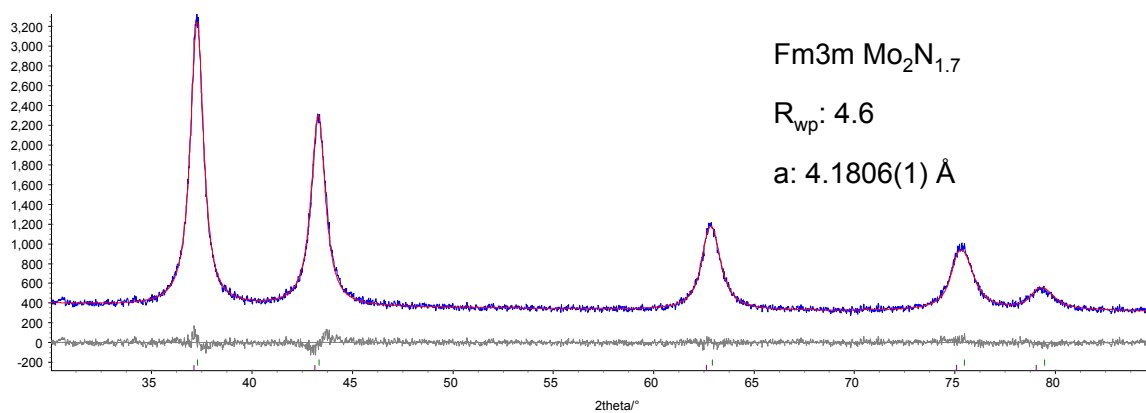


Fig. S2: in situ diffraction pattern collected during ammonia decomposition at 650°C after the 5th ammonia decomposition cycle using MoN-650 as catalyst.

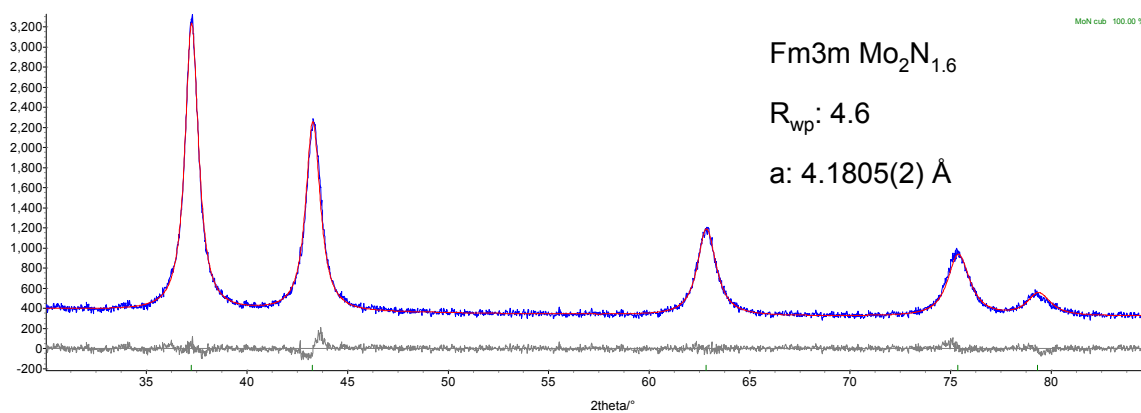


Fig. S3: in situ diffraction pattern collected during ammonia decomposition at 650°C after the 5th ammonia decomposition cycle using MoN-8000 as catalyst.