

Supplementary Information: Thermal Post-Treatments to Enhance Water Stability of NH₂-MIL-125(Ti)

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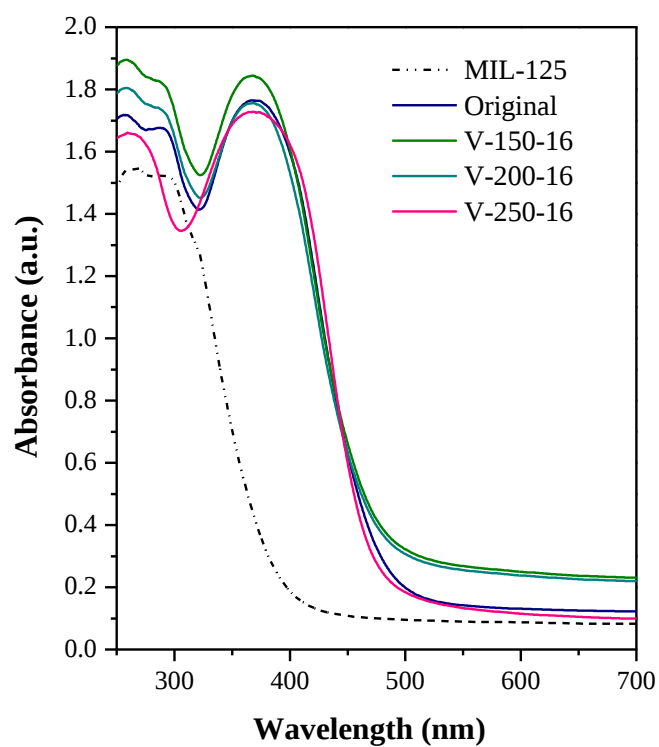


Figure 1. UV-vis diffuse absorbance spectra of NH₂-MIL-125(Ti) treated under vacuum at different temperatures for 16 h. Original NH₂-MIL-125(Ti) and MIL-125(Ti) spectra are included as reference.

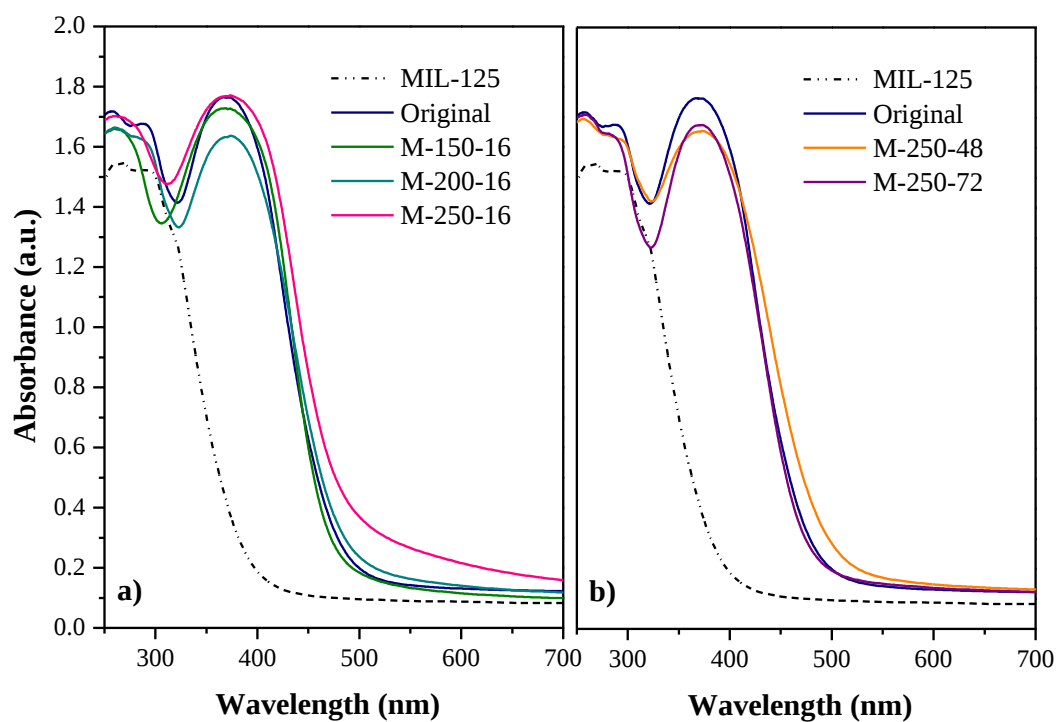


Figure 2. UV-vis diffuse absorbance spectra of $\text{NH}_2\text{-MIL-125(Ti)}$ heated in air at different temperatures for 16 h (a) and at 250 °C for 48 and 72 h (b). Original $\text{NH}_2\text{-MIL-125(Ti)}$ and MIL-125(Ti) spectra are included as reference.

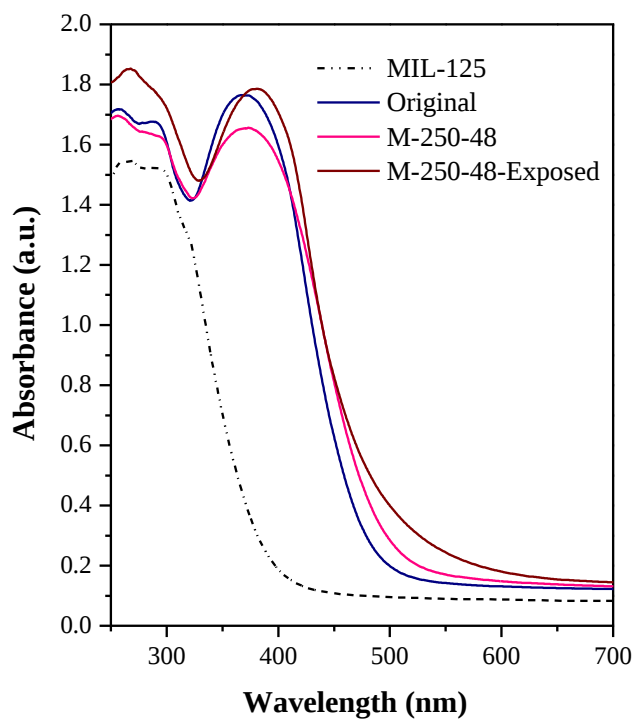


Figure 3. UV-vis diffuse absorbance spectra of M-250-48 before and after contact with water for 24 h. Original $\text{NH}_2\text{-MIL-125(Ti)}$ and MIL-125(Ti) spectra are included as reference.

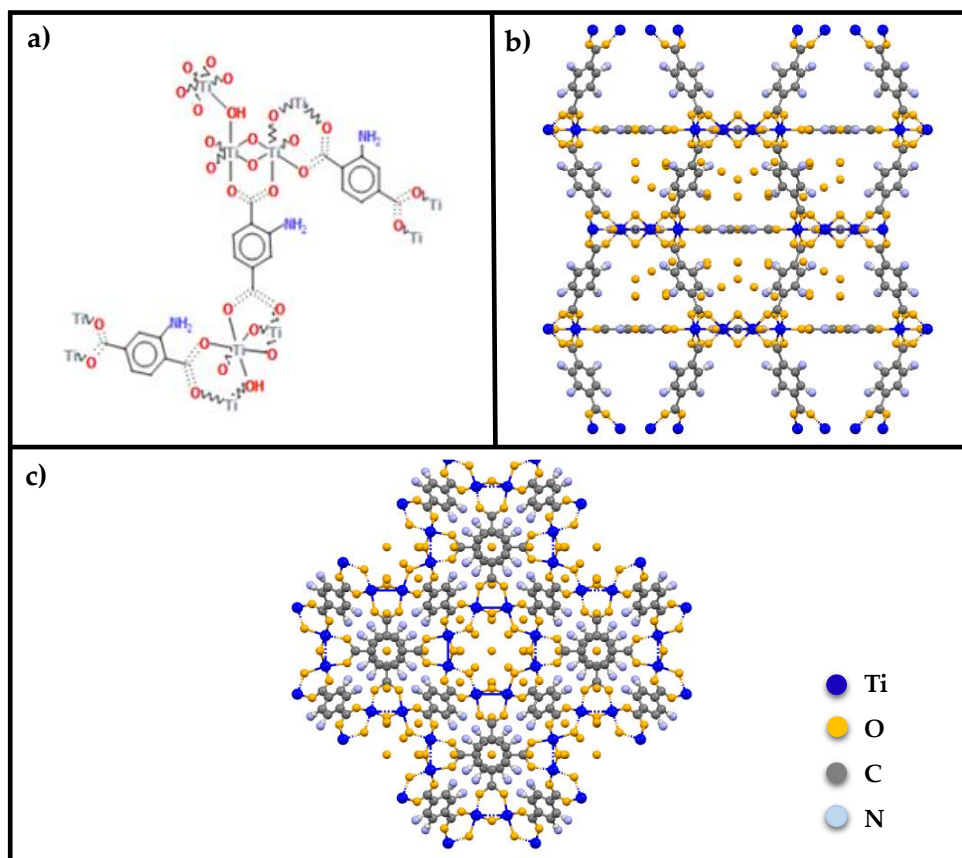


Figure 4. (a) Chemical structure of Ti-oxo clusters linked to NH₂-BDC ligands, from the Cambridge Structural Database (CSD). Chemical structure of NH₂-MIL-125(Ti) viewed from a-axis (b) and c-axis (c), from cif data of Crystallography Open Database.