

# Enhancing the Water Resistance of Mn-MOF-74 by Modification in Low Temperature NH<sub>3</sub>-SCR

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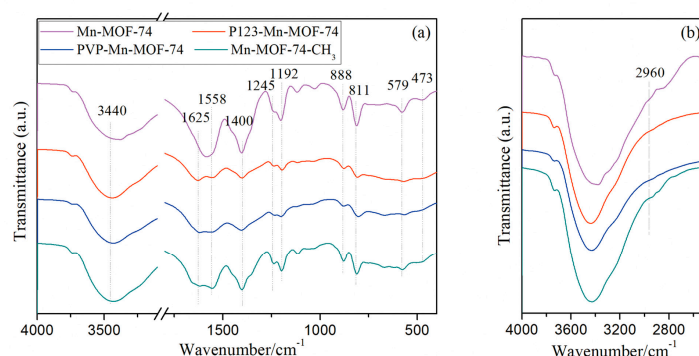


Figure S1. FT-IR spectra of P123/PVP-Mn-MOF-74 and Mn-MOF-74-CH<sub>3</sub> at (a) 4000~400 cm<sup>-1</sup>, (b) 4000-2500 cm<sup>-1</sup>

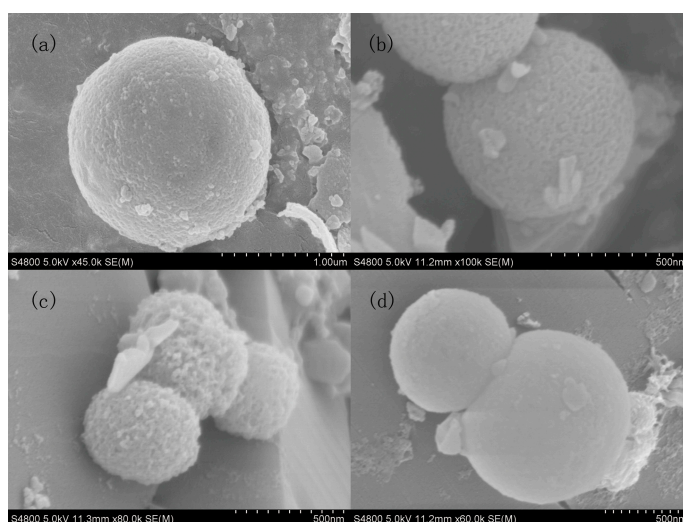


Figure S2. The SEM images of (a) Mn-MOF-74 (b) P123-Mn-MOF-74 (c) PVP-Mn-MOF-74 (d) Mn-MOF-74-CH<sub>3</sub>

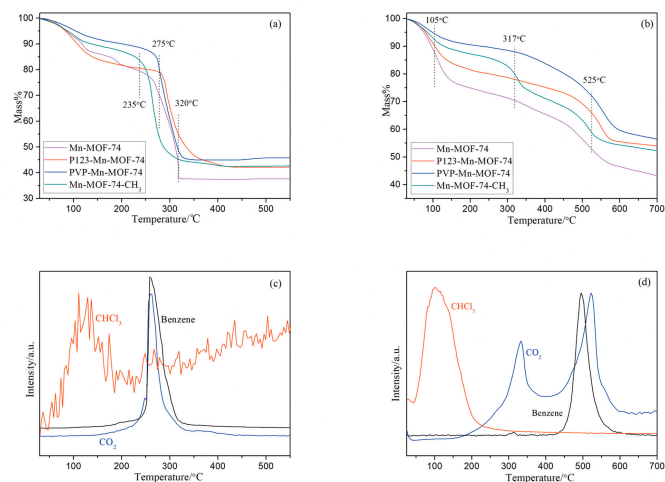


Figure S3. The TG curves of Mn-MOF-74, P123-Mn-MOF-74, PVP-Mn-MOF-74 and Mn-MOF-74-CH<sub>3</sub> at the atmosphere of (a) air and (b) N<sub>2</sub>; The MS results of Mn-MOF-74-CH<sub>3</sub> at the atmosphere of (c) air and (d) N<sub>2</sub>.