

Supporting Information to

Gas-Phase Loading of $[\text{Zn}_4\text{O}(\text{btb})_2]$ (MOF-177) with Organometallic CVD-Precursors: Inclusion Compounds of the Type $[\text{L}_n\text{M}]_a@$ MOF-177 and the Formation of Cu and Pd Nanoparticles inside MOF-177.

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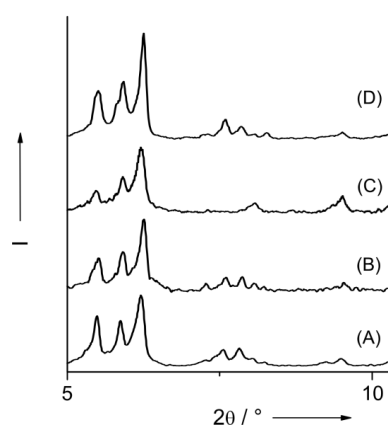


Figure S1 The diffractogramme shows a change in the intensities of the first three reflexes, in comparison between the unloaded and evacuated MOF-177 material and the precursor@MOF-177 material. This is due to the inclusion of guest molecules and can be observed for as-synthesized and fully evacuated MOF-177 material as well.

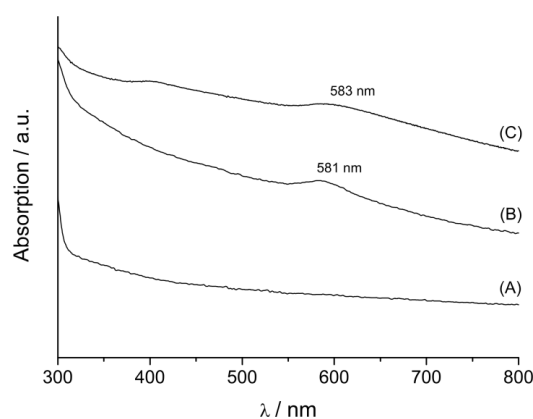


Figure S2 UV/VIS spectra of (A) MOF-177, (B) Cu@MOF-177 derived from $[\text{Cu}(\eta^5\text{-C}_5\text{H}_5)(\text{CN}^t\text{Bu})_2]@$ MOF-177 and (C) Cu@MOF-177 derived from $[\text{Cu}(\eta^5\text{-C}_5\text{H}_5)(\text{P}(\text{CH}_3)_3)_2]@$ MOF-177. The spectra shows a broad absorption band, which proves the presence of copper. It clearly indicates the existence of small copper particles due to the typical copper plasmon resonance feature.

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