Electronic Supplementary Informations:

Post-synthesis functionalization of MIL-101 using diethylenetriamine: A study on adsorption and catalysis

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Fig. S1 Powder XRD patterns of (a) MIL-101, (b) DETA-MIL-101, (c) Pd$_{3.1}$-DETA-MIL-101 and (d) Pd$_{0.9}$-DETA-MIL-101.

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**Fig. S2** $\text{N}_2$ adsorption-desorption isotherms of (a) MIL-101 and (b) DETA-MIL-101; filled mark represents the adsorption and blank mark is the desorption.
Fig. S3 TEM-EDX mapping images of Pd$_{3.1}$-DETA-MIL-101: (a) HR-TEM image, (b) N content and (c) Pd content mapping images, and (d) TEM-EDX spectra.
**Fig. S4** TEM-EDX mapping images of Pd_{1.0}-DETA-MIL-101: (a) HR-TEM image, (b) N content and (c) Pd content mapping images, and (d) TEM-EDX spectra.
Fig. S5 TEM-EDX mapping images of Pd$_{0.5}$-DETA-MIL-101: (a) HR-TEM image, (b) N content and (c) Pd content mapping images, and (d) TEM-EDX spectra.