Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A.

Supporting information:

Direct support mixture painting, using Pd(0) organo-metallic compounds – an easy and environmentally sound approach to combine decoration and electrode preparation for fuel cells

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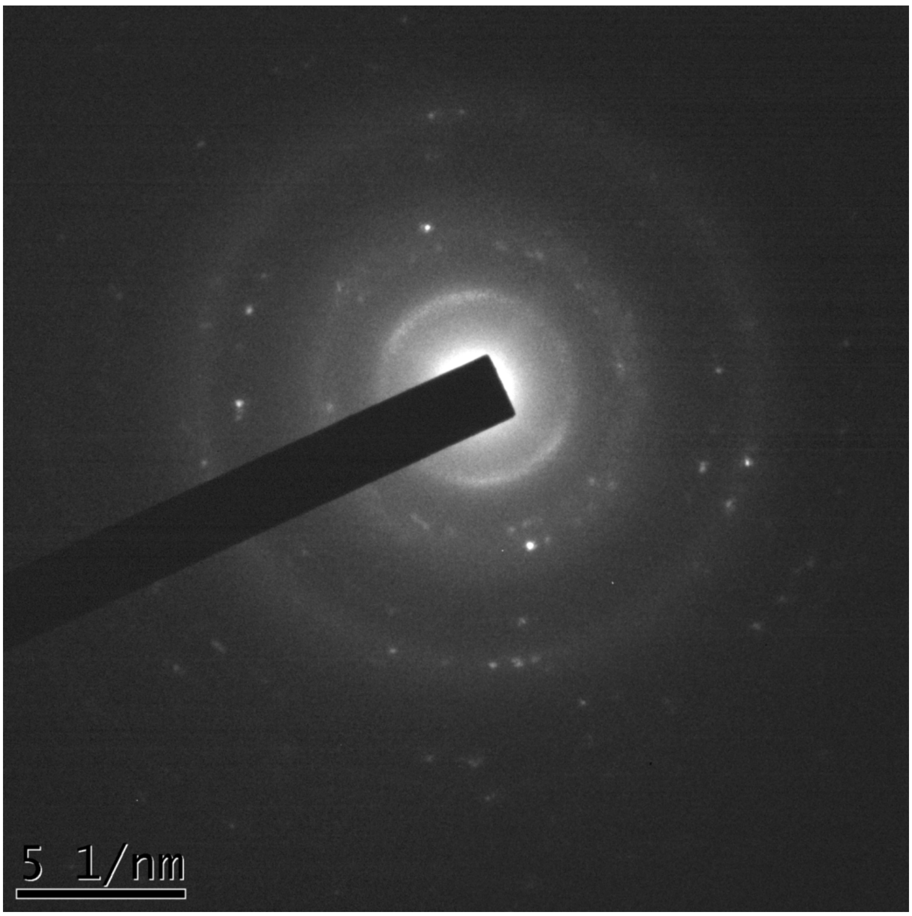
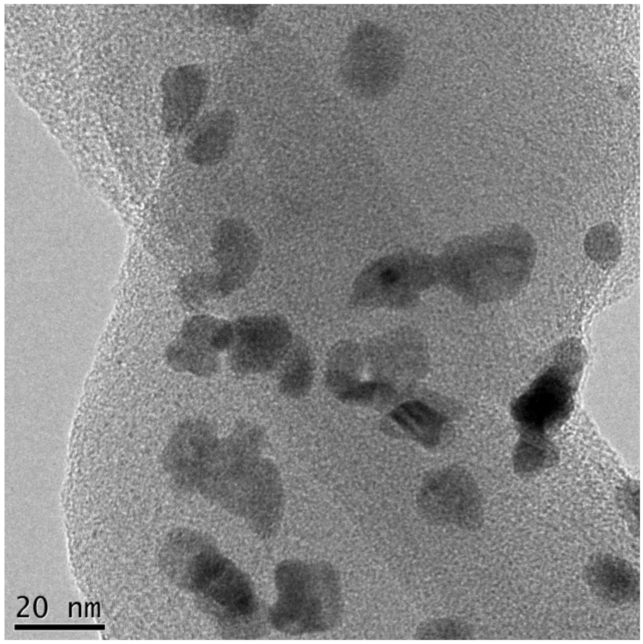
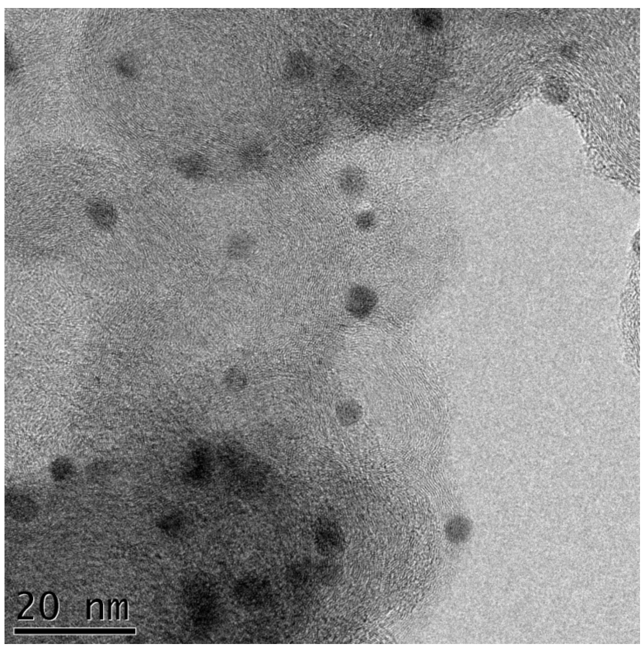


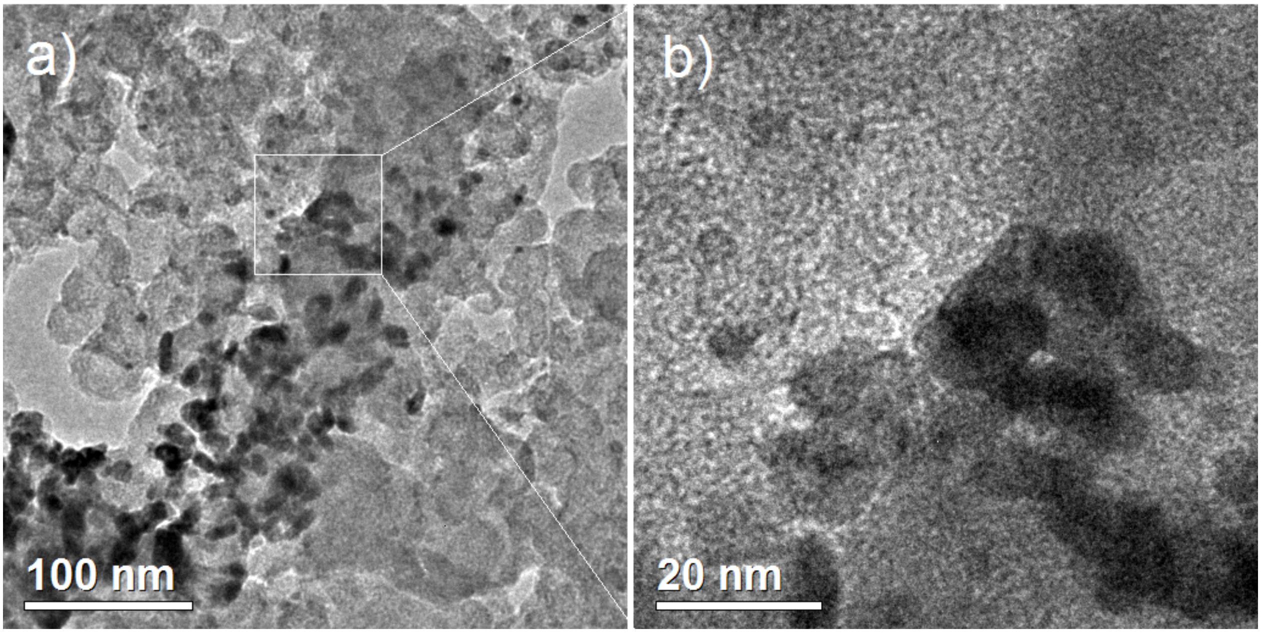
Supporting information Fig. 1: Selected area electron diffraction of Pd nanoparticle decorated helical carbon nanofibers. The ring-like diffraction pattern represents a multi-particle crystalline sample of fcc palladium



Supporting information Fig. 2: Pd on HCNFs after use as fuel cell catalyst. From TEM images we cannot identify any significant difference to the fresh catalyst.



Supporting information Fig. 3: Pd on Vulcan after use as fuel cell catalyst. From TEM images we cannot identify any significant difference to the fresh catalyst.



Supporting information Fig. 4: TEM images of Pd on Vulcan showing a region with larger particles a) and a close-up b) where the smaller NPs are also visible. The occurrence of such regions contributes to the larger average particle size derived from XRD for the Vulcan electrode.