CrystEngComm

COYAL SOCIETY OF CHEMISTRY

ARTICLE

Supporting Information: Synthesis of facetted Pt Nanoparticles on SnO_2 as Oxygen Reduction Catalyst

C. Gutsche*^a, M. Knipper^a, T. Plaggenborg^a, J. Parisi^a, J. Kolny-Olesiak^a

Received 00th January 20xx, Accepted 00th January 20xx

DOI: 10.1039/x0xx00000x

www.rsc.org/



Fig. S1: TEM images of SnO₂ nanoparticles as bought showing a rather wide size distribution.



samples shown in Fig. 3 reveals the change in the peak width and, thus the mean crystallite diameter.

^{a.} University of Oldenburg, Department of Physics, Energy and Semiconductor Research Laboratory, Carl-von-Ossietzky Str. 9-11, 26129 Oldenburg, Germany. E-Mail: christian.gutsche@uni-oldenburg.de,

ARTICLE





Fig. S4: Low potential range CVs of Ag200 with a scan rate of 0.1V/s in 0.5 M $\rm H_2SO_4$. The development of the Ag features is analog to observations in the literature. 20 One set of low potential cycles consists of eight cycles. The four sets of low potential cycles are separated by three sets of each five wide potential cycles as described in the experimental section. At the beginning of the fourth set of low potential CVs, the hydrogen adsorption and desorption features are clearly visible but decline during the following cycles due to Ag redeposition.

2 | J. Name., 2012, 00, 1-3