

Supporting information

Design and Application of a Gas Diffusion Electrode (GDE) Cell for Operando and *In Situ* Studies

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Table S1. Refined values obtained from Rietveld refinement of the XRD patterns, the SAXS fit with polydispersity (PD) and the PDF fits, performed for scattering data collected for the Pt/C commercial catalysts at 0.9 V vs RHE and during ORR at 0.4 V vs RHE.

Potenti al vs RHE	XRD					SAXS			PDF			
	Lattice constant a (\AA)	domain size (\AA)	Micro strain ($\Delta d/d \cdot 10^6$)	U_{iso} (\AA^2)	R_w	A_1	Radius (median) (\AA)	PD	a (\AA)	Sp diameter (\AA) r	U_{iso} (\AA^2)	R_w
0.4 V	3.924(1)	49(7)	2285(80)	0.007(1)	0.02	8.74E-5	21.8	0.24	3.915	47	0.007	0.15
0.9 V	3.927(1)	49(5)	1700(35)	0.007(1)	0.02	8.01E-5	21.9	0.24	3.918	48	0.006	0.14

Below the technical drawings of the cell components are presented. The files are available upon request.





