Supplementary Materials

Communication

Anion Dependent Particle Size Control of Platinum Nanoparticles Synthesized in Ethylene Glycol

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Table S1. Overview of the averaged particle sizes and standard deviations determined from TEM images reducing different precursors in presence of the bases NaOH and Na(acac) depending on the ratio of the anion of the base to Pt. * When the precursor contains the same anion as the base the amount is considered in the anion/Pt ratio. # Some base anion/Pt ratios led to instable particles.

Precursor		**$H_2Pt(OH)_6$**			**H_2PtCl_6**	**$Pt(acac)_2$**
Base		**NaOH** *		**Na(acac)**	**Na(acac)**	**Na(acac)** *
Reduction time		10 min	90 min	90 min	10 min	150 min
base anion/Pt molar ratio *	48.8	-	-	1.7 ± 0.5	1.4 ± 0.3	- #
	24.4	- #	1.6 ± 0.4	1.7 ± 0.4	1.5 ± 0.3	3.1 ± 0.6
	12.2	1.2 ± 0.4	2.0 ± 0.7	1.8 ± 0.6	1.7 ± 0.4	3.0 ± 0.4
	9.2	1.4 ± 0.3	2.5 ± 0.6	1.9 ± 0.5	1.6 ± 0.3	3.5 ± 0.9
	7.6	1.4 ± 0.3	2.4 ± 0.3	-	-	-
	6.1	-	-	2.0 ± 0.6	1.4 ± 0.4	3.7 ± 0.7
	5.4	-	-	2.2 ± 0.7	-	2.9 ± 0.4
	4.6	-	-	- #	1.9 ± 0.4	3.0 ± 0.4
	2.4	-	-	- #	-	-