Role of the Potential Range During Stress Testing of Platinum-Containing Electrocatalysts at Elevated Temperature

Irina Gerasimova [1]*, Sergey Belenov [1,4], Nikolai Lyanguzov [2], Ilya Pankov [3], Mikhail Tolstunov [1] and Angelina Pavlets [1]

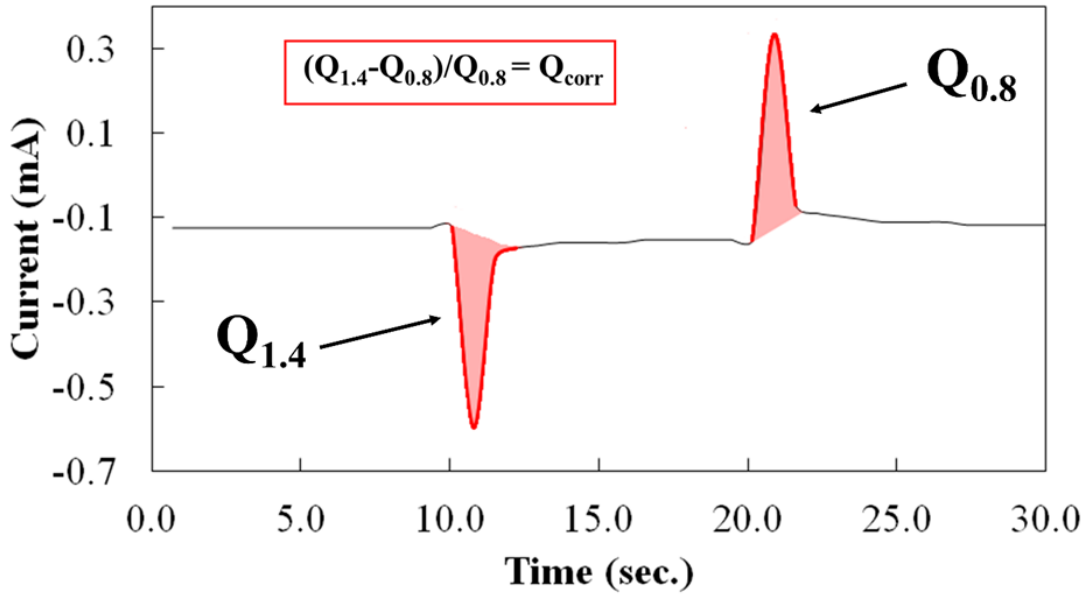


Figure S1. Determination of the amount of electricity passed at the upper (1.4 V) and lower (0.8 V) potentials.

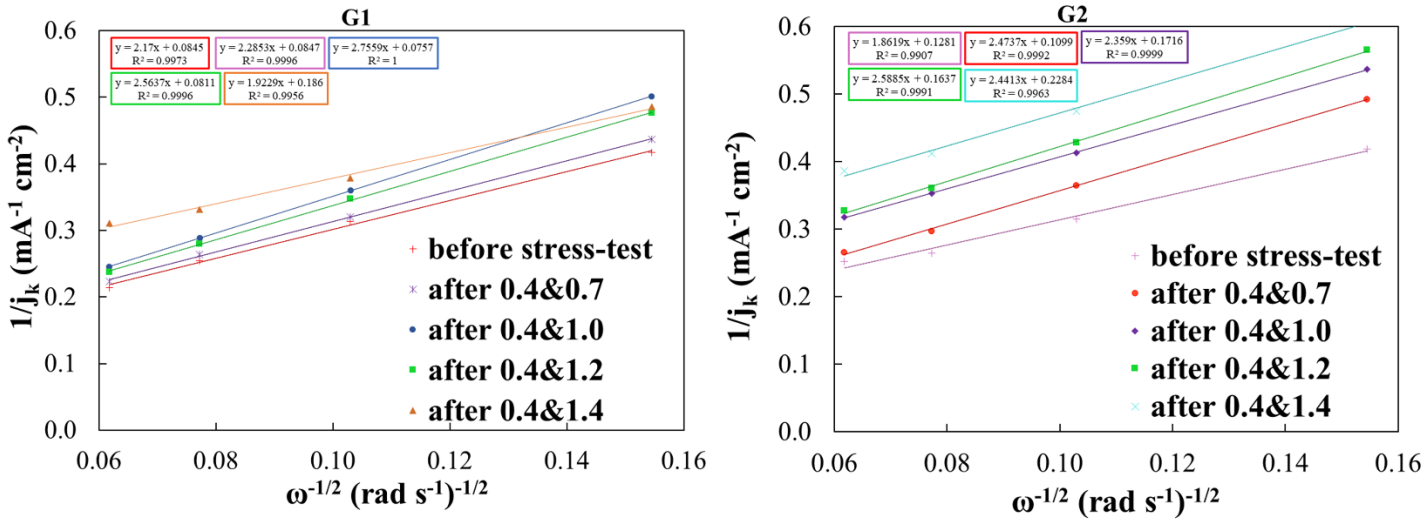


Figure S2. A dependence of the current density on the rotation speed of the RDE in the Koutetskiy – Levich coordinates.

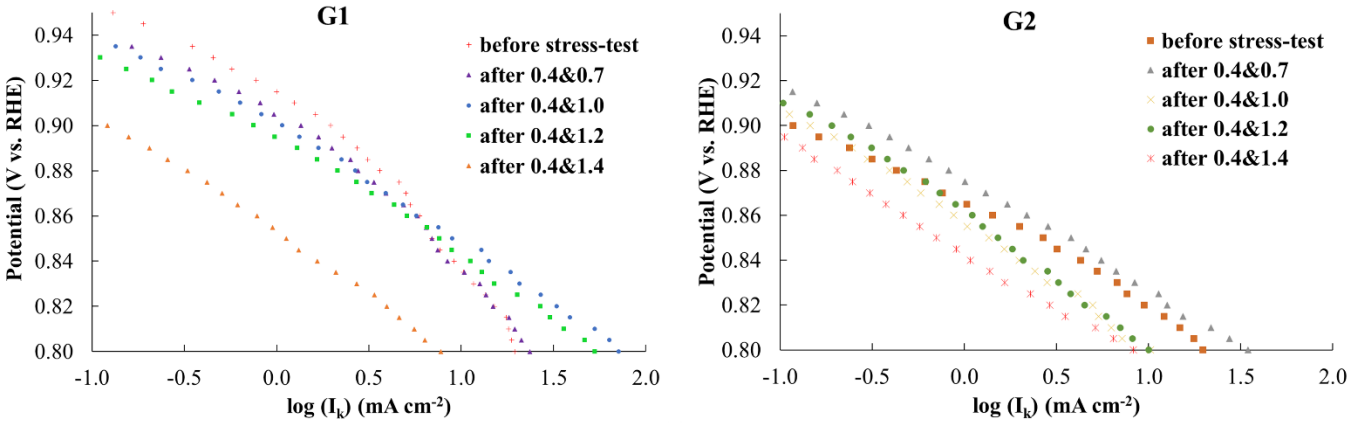


Figure S3. Tafel plots for ORR of Pt/C catalysts G1 and G2 before and after different ADT protocols.

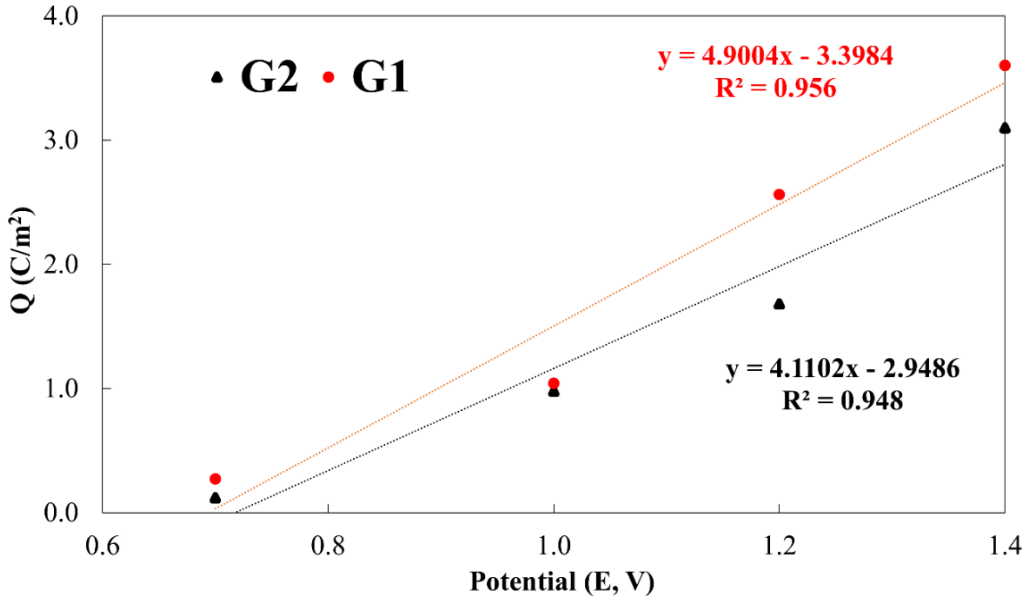


Figure S4. Dependence of the amount of electricity passed during the stress test normalized to 1 coulomb on the change in the value of the upper potential.

Table S1. Comparison electrochemical characteristics for prepared Pt/C catalysts and literature date.

Sample	**ESA, $m^2 g^{-1}$ (Pt)**	**$E_{1/2}$, V**	**Number of $\bar{e}$** (E=0.85 V)	**I_{mass}, Ag^{-1} (Pt)** (E=0.85 V)	**I_{sp}, Am^{-2} (Pt)** (E=0.85 V)	**Tafel slope, mV/dec**	**Reference**
G1	130	0.90	4.0	479	3.7	63.6	This work
G2	50	0.88	3.8	279	5.6	42.2	This work
Pt/C	53	0.89	-	-	-	69.1	[44]
Pt/CIC-15	45	-	-	-	-	70	[45]
Pt/CIC-26	55	-	-	-	-	85	[45]
Pt/CIC-50	55	-	-	-	-	70	[45]
Pt/CIC-80	45	-	-	-	-	70	[45]
Pt/75BP	69.7	-	-	-	-	61	[46]
Pt/75F-BP	70.9	-	-	-	-	56	[46]
Pt/75V	78.3	-	-	-	-	60	[46]
Pt/C	87.2	-	-	-	-	55	[46]
Pt/C (E-TEK)	36.2	0.864	3.7	401	11.1	60	[47]
Pt/C (JM)	79	0.889	-	210 (E=0.9 V)	2.6 (E=0.9 V)	-	[48]
Pt/C	39.6	-	4.0	-	-	63	[49]
Pt/C	67	-	-	76 (E=0.8 V)	1.1 (E=0.8 V)	57	[50]

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