

Supporting information for:

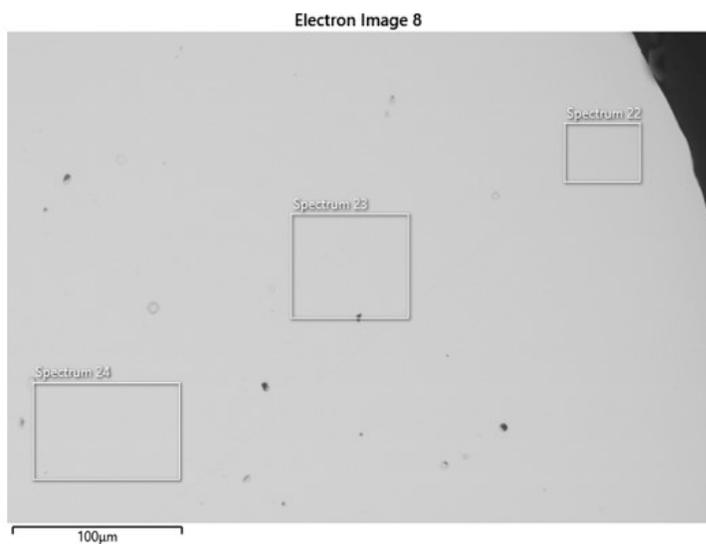
Electrochemistry in Flame Plasmas: Passive Films and Impedance Analysis

Bill Logan Riehl,^{1*} Craig E. Banks²

¹Owens Corning S&T, 2790 Columbus Ave, Granville OH 43023

*²Faculty of Science and Engineering, Manchester Metropolitan University, Dalton Building,
Chester Street, M1 5GD, Great Britain*

Platinum – clean and test sample (no oxidation layer)



Label	O	Pt	Total
Spectrum 22	2.24	97.76	100
Spectrum 23	1.45	98.55	100
Spectrum 24	1.3	98.7	100

Figure S1: Platinum post oxidation



Figure S2. Flame EIS Apparatus.

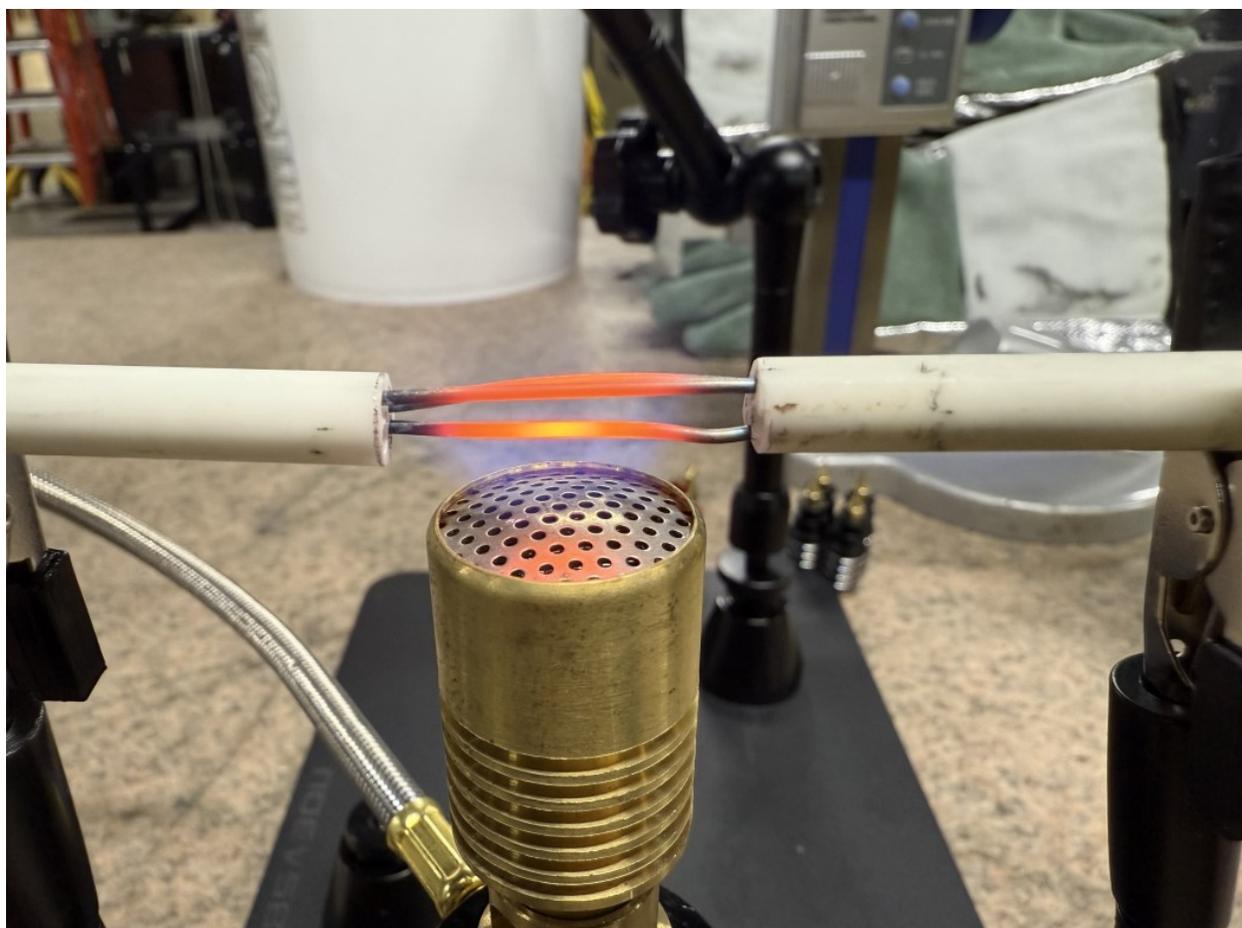


Figure S3. Electrodes exposed to flame plasma.

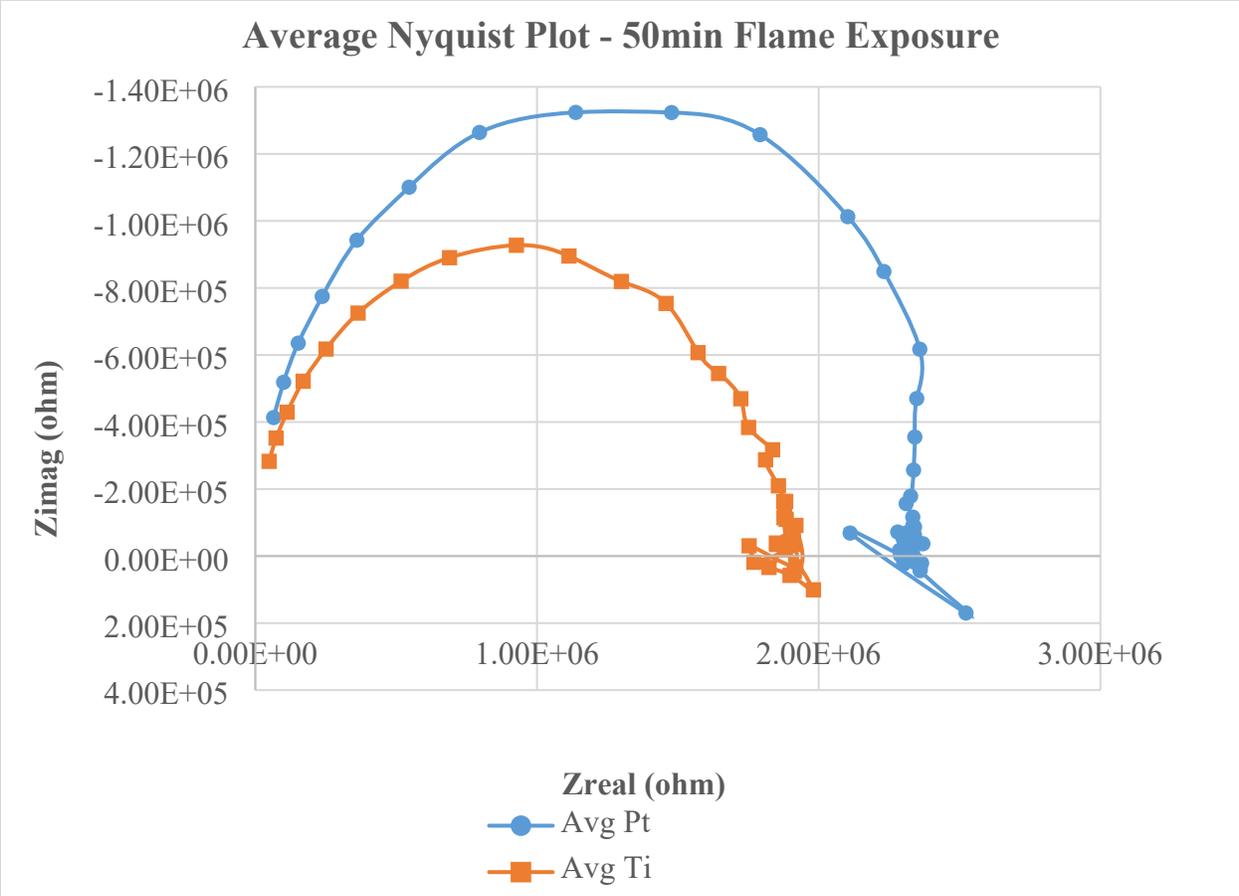


Figure S4: Average of 5 working electrodes at 50min of flame exposure.

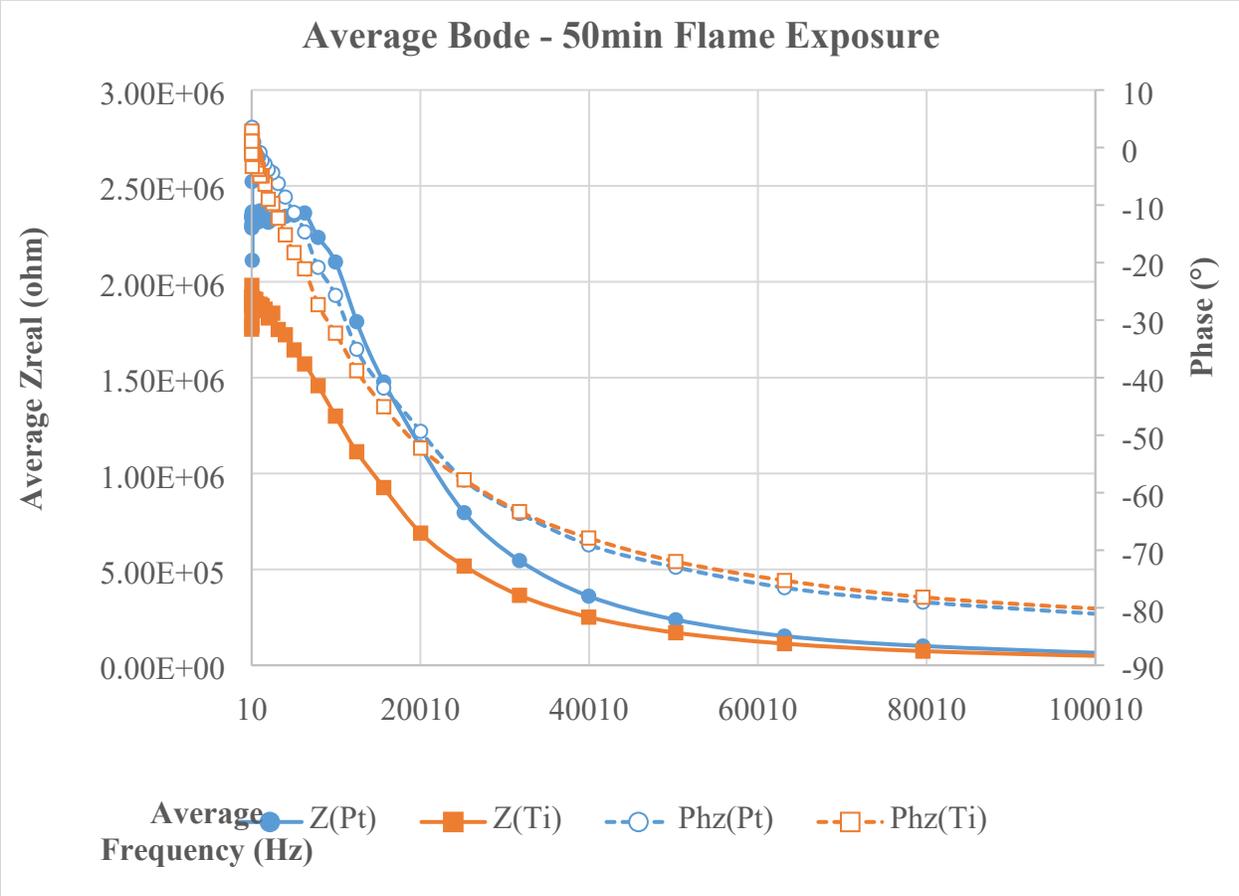


Figure S5: Average of 5 working electrodes at 50 min of flame exposure.