

Fig. S1: Graphite based anode single-serpentine flow-field plate. Dimensions - $80 \text{ mm } \times 80 \text{ mm} \times 8 \text{ mm}$.

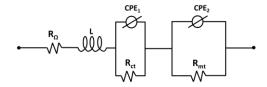


Fig. S2: Equivalent circuit used for the EIS measurements of the PEFC. L – the pseudo inductance, R_{Ω} - Ohmic resistance (HFR), R_{ct} - charge transfer resistance, R_{mt} – mass transfer resistance, CPE_1 – constant phase element 1 and CPE_2 – constant phase element 2.

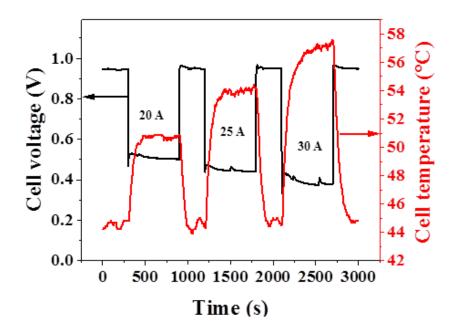


Figure S31: Cell temperatures measured during galvanostatic tests at 20 A (0.8 A cm-2), 25 A (1 A cm-2), and 30 A (1.2 A cm-2).