

Electronic Supporting Information:

**Exploration of defined 2-dimensional working electrode shapes
through additive manufacturing**

Alejandro Garcia-Miranda Ferrari, Nicholas J. Hurst, Elena Bernalte, Robert D. Crapnell,
Matthew J. Whittingham, Dale A.C. Brownson and Craig E. Banks*

*Faculty of Science and Engineering, Manchester Metropolitan University, Chester Street,
M1 5GD, United Kingdom.*

*To whom correspondence should be addressed.

E-mail: c.banks@mmu.ac.uk; Tel: +44(0)1612471196

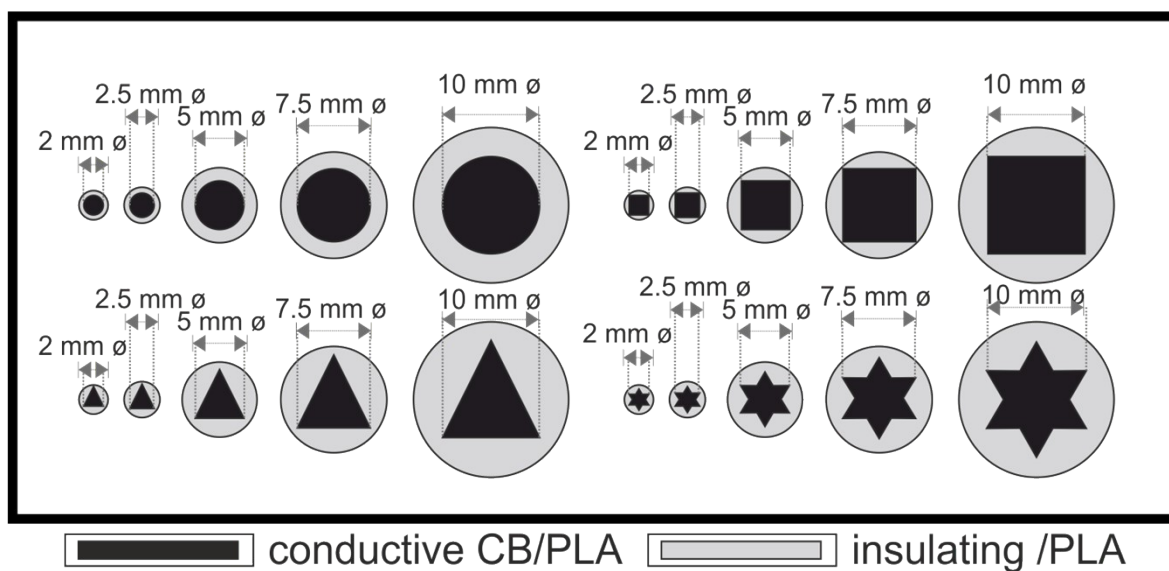


Figure S1. Schematic representation of the AMEs with 2, 2.5, 5, 7.5 and 10 mm working electrodes, with their respective shapes in the form of a disc, square, equilateral triangle or a six-point star.

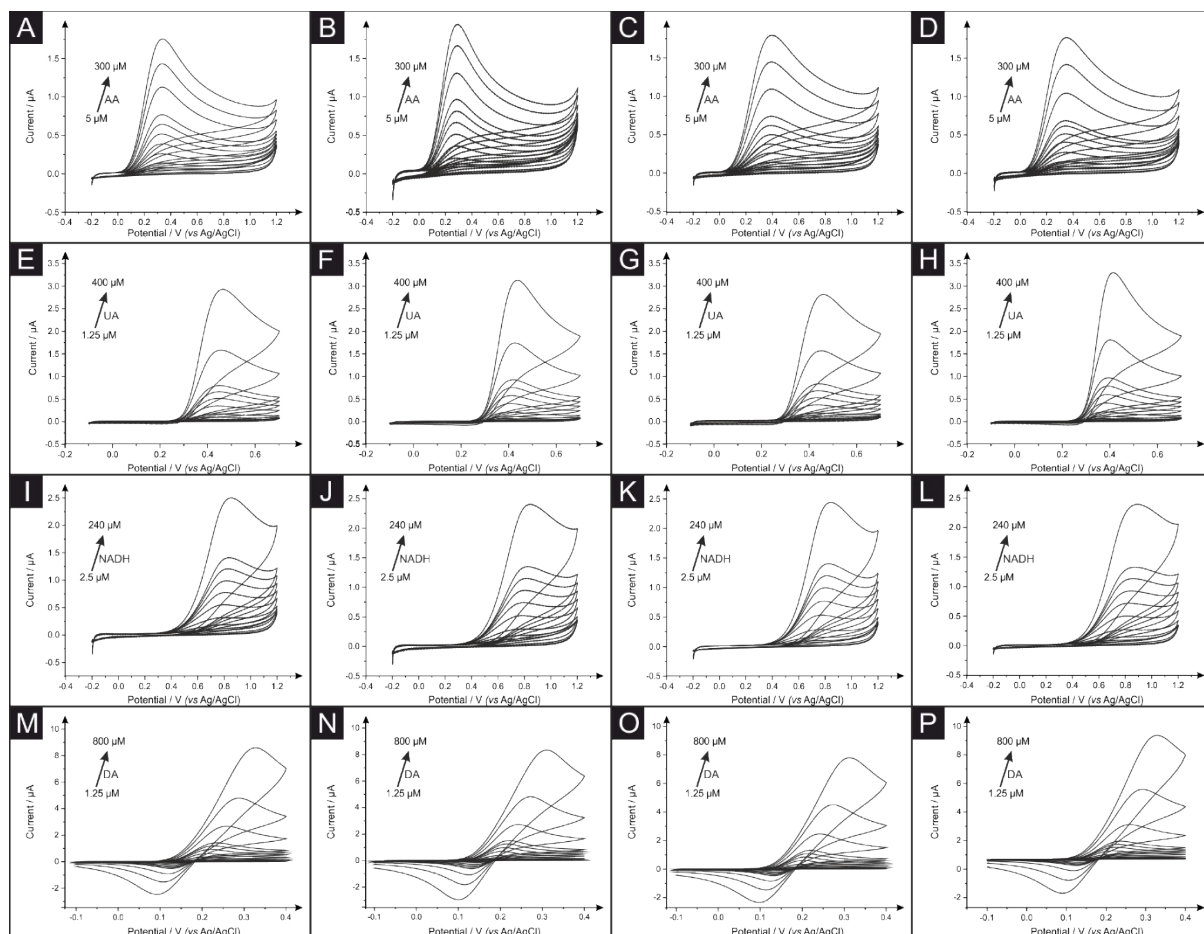


Figure S2. Voltammograms from the calibration plots included in Figure 3. A to D shows the respectively responses for the disc, square, triangle and star (A to D) electrodes for AA. E to F depicts the responses for the disc, square, triangle and star (E to F) for UA. NADH responses are included from I to L for the disc, square, triangle and star electrodes respectively. DA responses are shown in M to P for the disc, square, triangle and star electrodes. Scan rate: 50 mV s^{-1} (vs. Ag/AgCl).