Supporting Information

Enhanced electroanalysis in lithium potassium eutectic (LKE) using microfabricated square microelectrodes.

Damion K Corrigan[1], Ewen Blair[2], Jonathan G. Terry[2], Anthony J. Walton[2] and Andrew R. Mount[1].

[1] School of Chemistry, The University of Edinburgh, Joseph Black Building, The King's Buildings, West Mains Road, Edinburgh, EH9 3JJ, Scotland (UK)

[2] Institute for Integrated Micro and Nano Systems, School of Engineering, The University of Edinburgh, The King's Buildings, West Mains Road, Edinburgh EH9 3JF, Scotland (UK)

Corresponding author – Prof A R Mount. Email - a.mount@ed.ac.uk Tel – 0131 650 4747

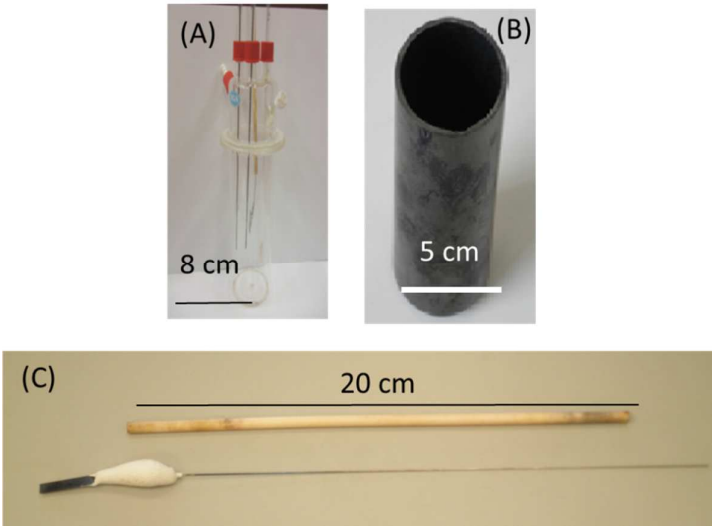

Figure S1. Images of the high temperature setup. (A) Quartz cell and electrodes. (B) Vitreous carbon crucible. (C) Connected microelectrode and ceramic tube.

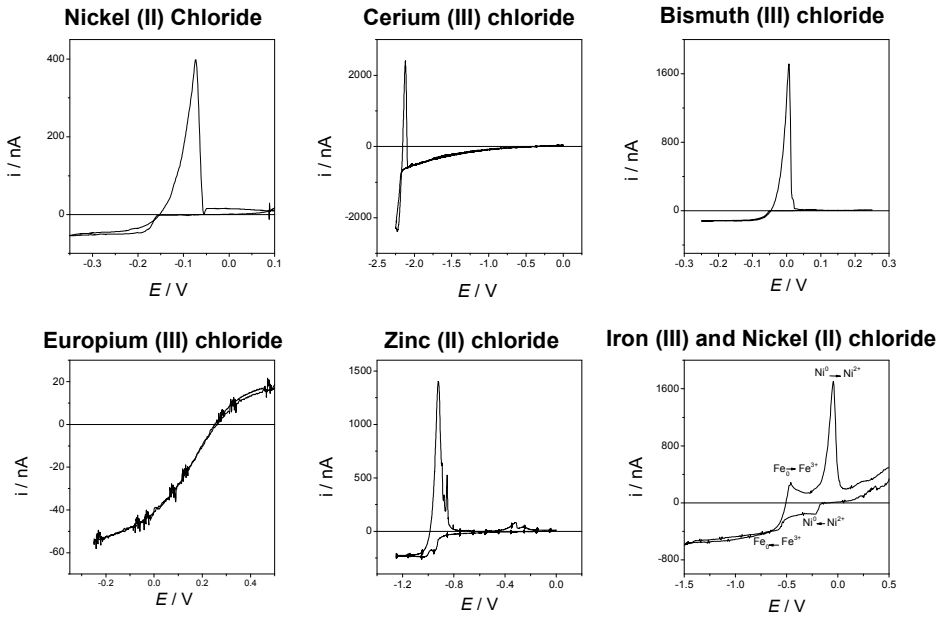

Figure S2. Typical cyclic voltammograms recorded at 723 K at a sweep rate of 100 mVs^{-1} for nickel (II) chloride, cerium (III) chloride, bismuth (III) chloride, europium (III) chloride, zinc (II) chloride and iron (III) and nickel (II) chloride in LKE.