



Supplementary figure OM1: Impedance spectra for all experiments on the second heating or cooling cycle from 500–1023K. Negative impedance curves (inductance) shown in MQ050 and MQ061 are commonly associated with the interaction of the current between the sample and electrode (Wang and Karato, 2013). Elongated and misshapen arcs (MQ026 and MQ049), are associated with distributive capacitance, as described by Karato and Wang (2013).