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Sommario/riassunto	A high resolution electrochemical impedance spectroscopy study on anode supported single cells (ASC) is presented. The cells were characterised over a broad range of operating conditions, including different temperatures, current densities and various cathode and anode gas compositions. The analysis of the distribution of relaxation times combined with the numeric accuracy of a CNLS fit enabled the identification of five different processes contributing to the total polarisation loss of an ASC.