

Ni-free high-entropy rock salt oxides with Li superionic conductivity

Mattia Biesuz^{1,#}, Jixi Chen², Mauro Bortolotti¹, Giorgio Speranza^{1,3,4}, Vincenzo Esposito², Vincenzo M. Sglavo^{1,5}

¹ University of Trento, Department of Industrial Engineering, Via Sommarive 9, 38123, Trento, Italy

² Department of Energy Conversion and Storage, Technical University of Denmark, Fysikvej 8 309, 2800 Kgs. Lyngby, Denmark

³ Fondazione Bruno Kessler, Via Sommarive 18, 38123 Trento, Italy

⁴ IFN - CNR, CSMFO Lab, Via alla Cascata 56/C, 38123 Trento, Italy

⁵ INSTM, Via G. Giusti 9, 50121 Firenze, Italy

Corresponding author: MB mattia.biesuz@unitn.it

Supplementary information

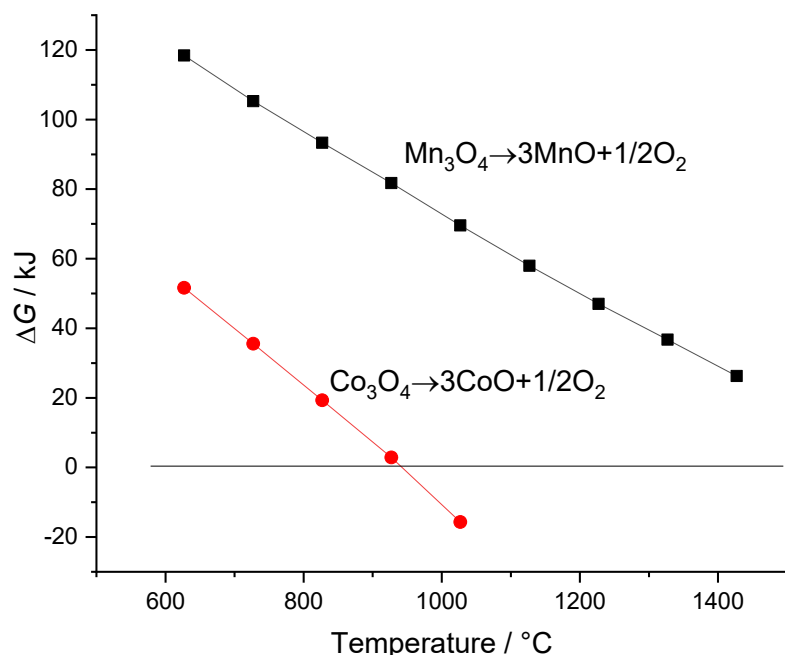


Figure S1. SEM micrographs of the external surface (left column) and fresh fracture surface (right column) for HEO powders sintered at 1200°C for 0.5h.

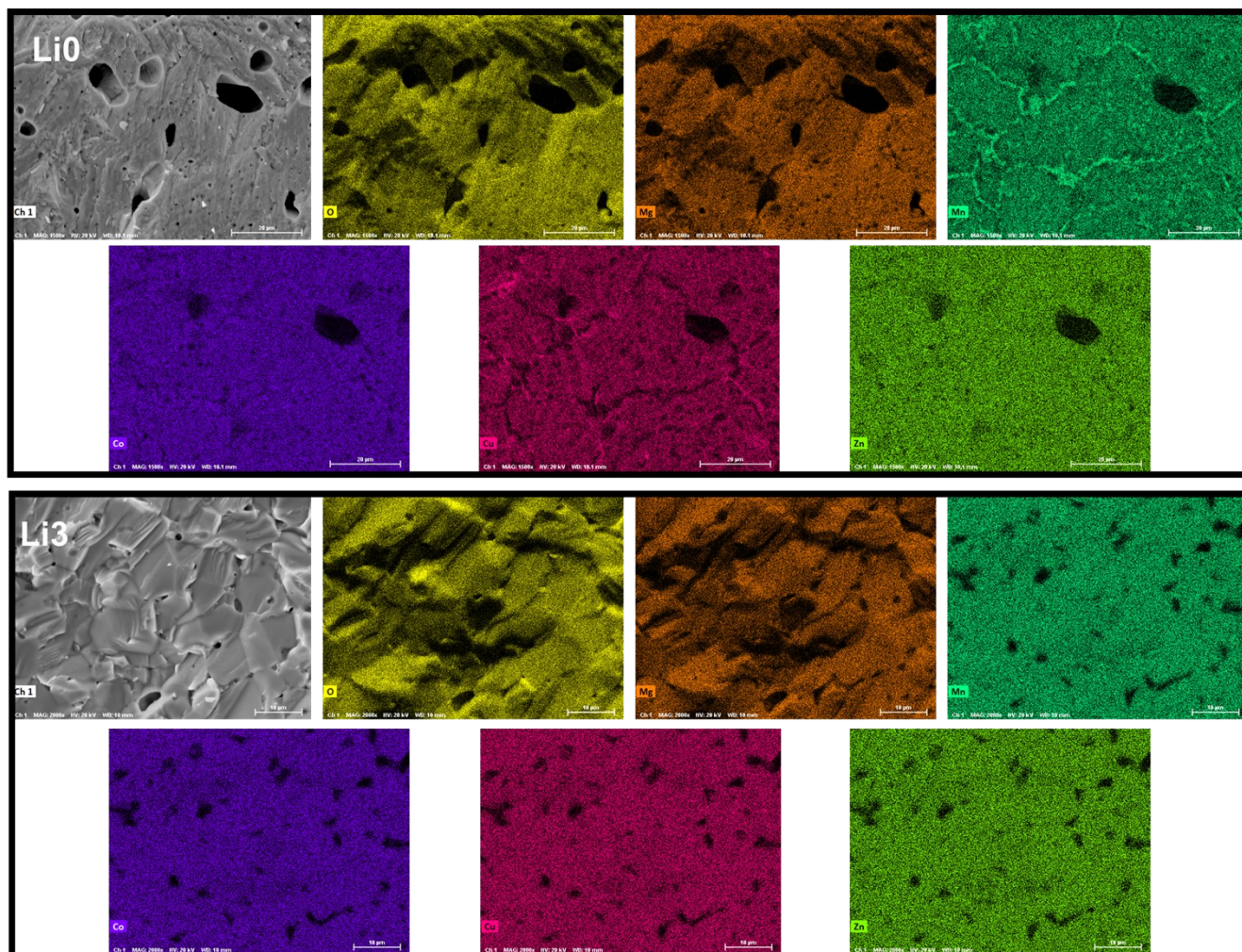


Figure S2. EDXS elemental maps obtained on the fresh fracture surface of Li0 and Li3 samples sintered at 1200°C for 0.5h.