

Supplementary Information

Eco-compatible Oxides Enabling Energy Storage via Li⁺/Mg²⁺ Co- intercalation

Sv. Veleva ¹, Sv. Ivanova ², P. Polrolniczak ³, K. Wasinski ³, D. Nihtianova ², A. E. Stoyanova ¹
and R. Stoyanova ^{2*}

¹ Institute of Electrochemistry and Energy Systems, Bulgarian Academy of Sciences, Sofia 1113,
Bulgaria

² Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Sofia 1113,
Bulgaria

³ Institute of Non-Ferrous Metals, Division in Poznań, Central Laboratory of Batteries and Cells,
61-362 Poznań, Poland

Figure S1 BF-STEM images and corresponding composition map of Mn K α 1, Mg K α 1 and O K α 1 for MgMn₂O₄ spinels annealed at 350 °C (a) and 550 °C (b).

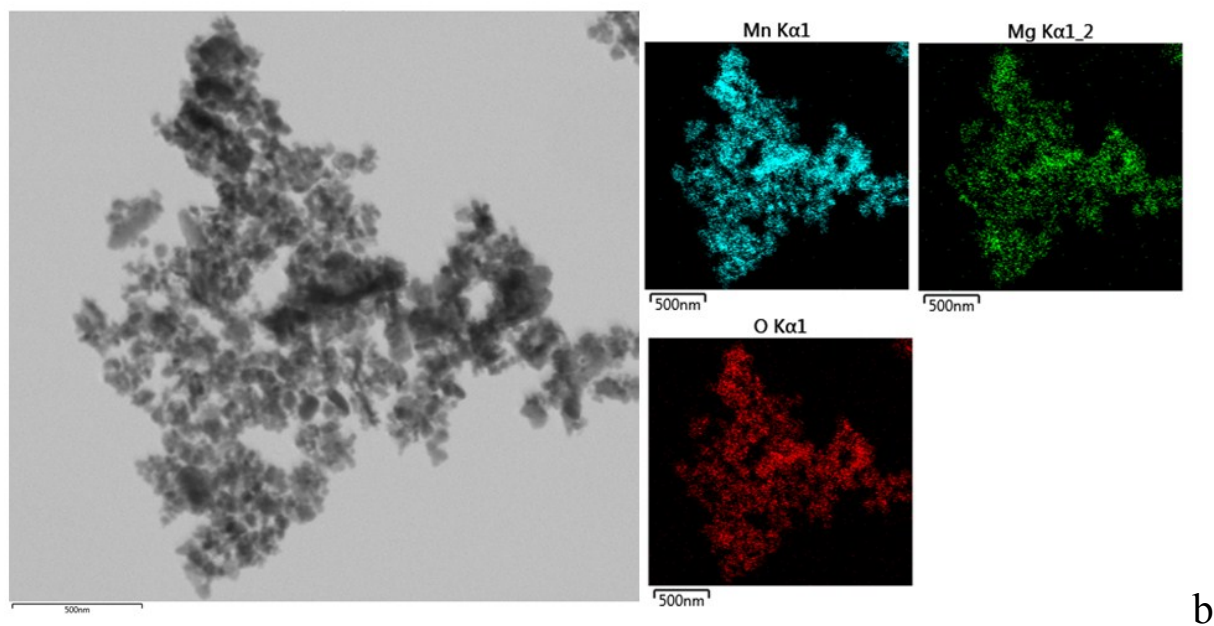
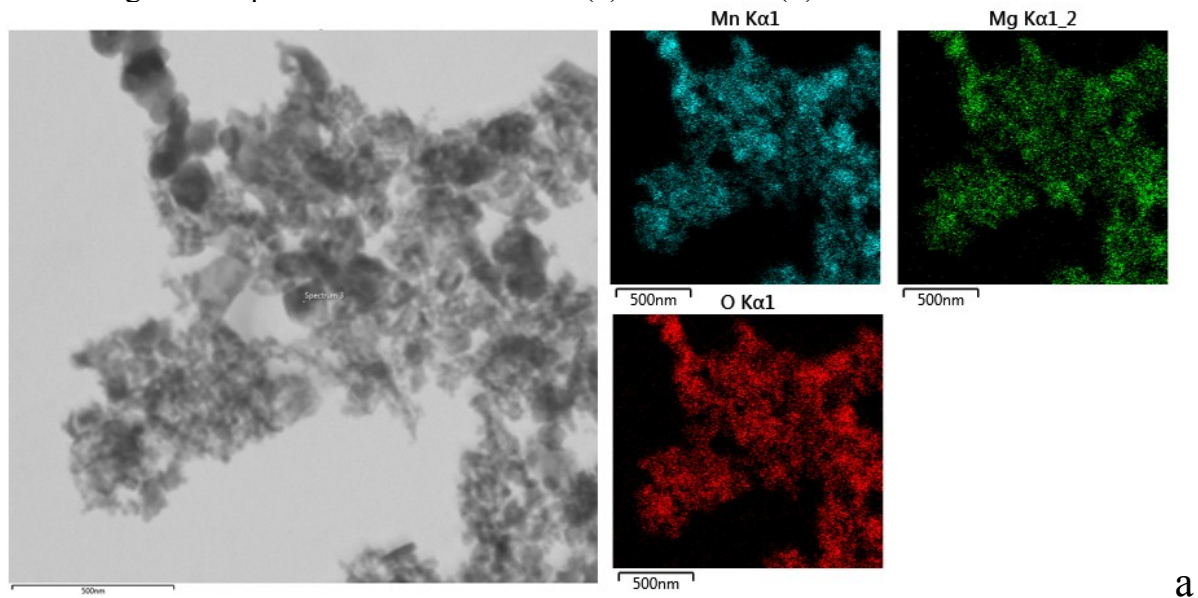
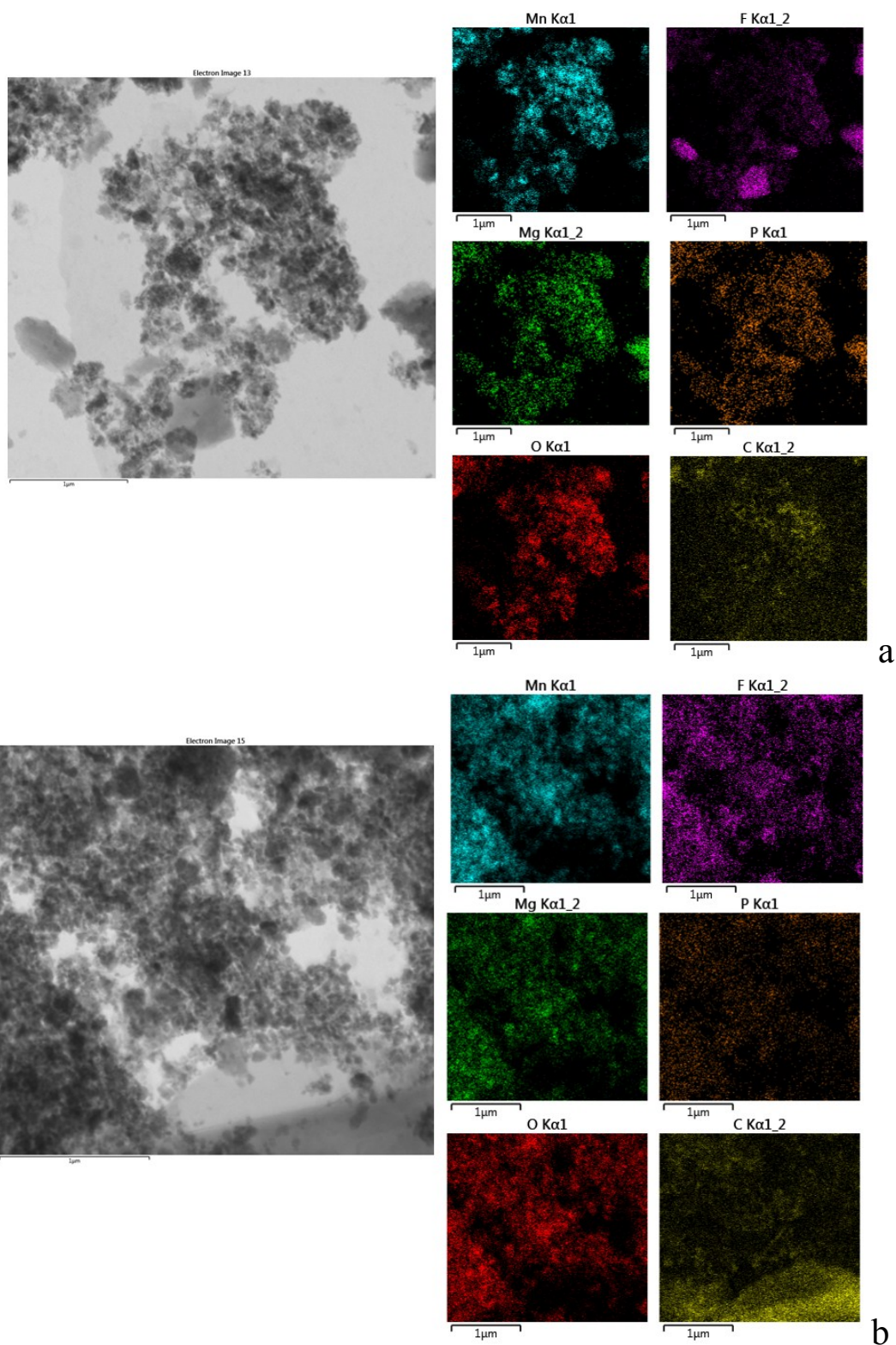
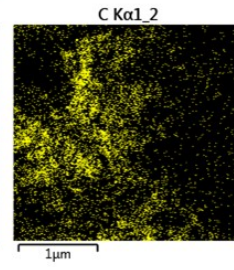
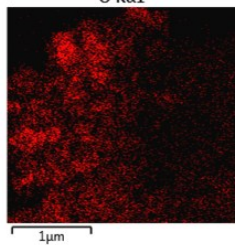
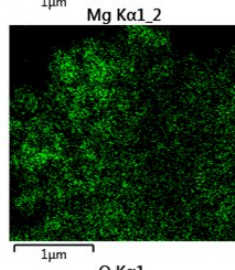
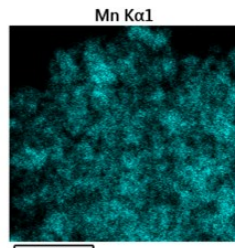
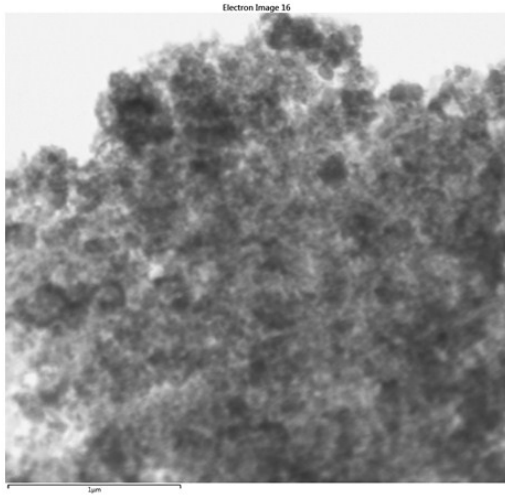


Figure S2 BF-STEM images and corresponding composition map of Mn K α 1, Mg K α 1 and O K α 1 for MgMn₂O₄ electrodes: (a) inverse MgMn₂O₄ cycled in lithium electrolyte; (b) normal MgMn₂O₄ cycled in lithium electrolyte, and (c) inverse MgMn₂O₄ cycled in lithium electrolyte.





C

Figure S3 SEM image of monoclinic Li_2TiO_3 .

