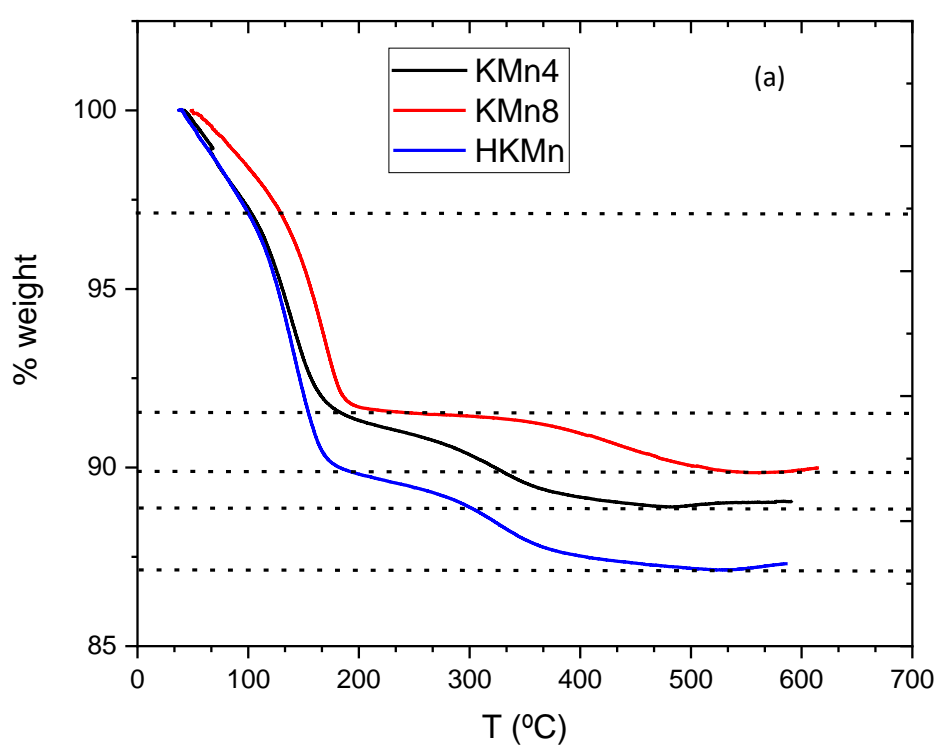


Supporting Information

Influence of MnO₂-birnessite microstructure on the electrochemical performance of Aqueous Zinc Ion Batteries.

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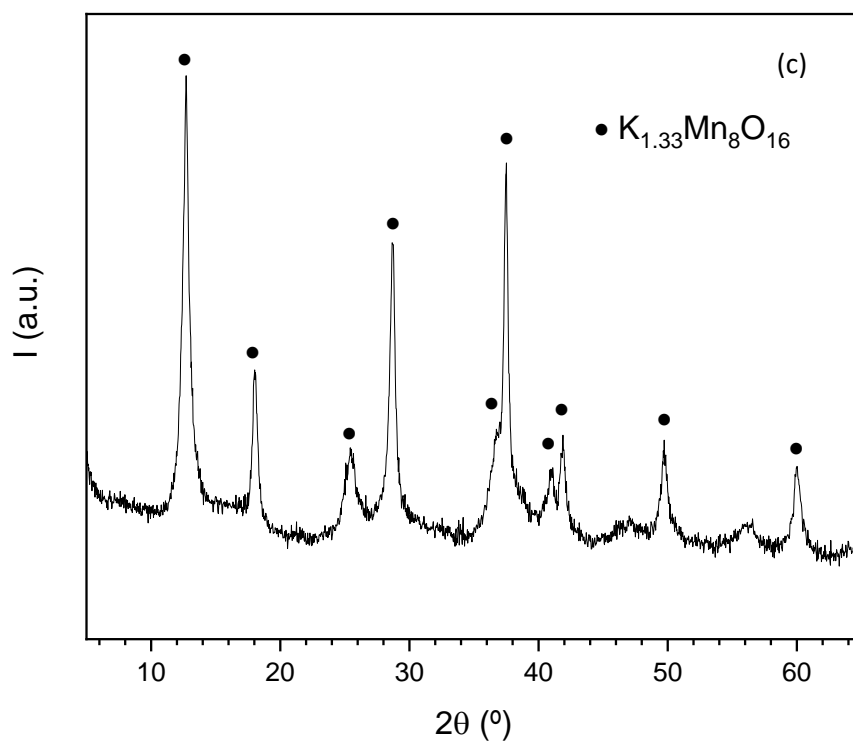
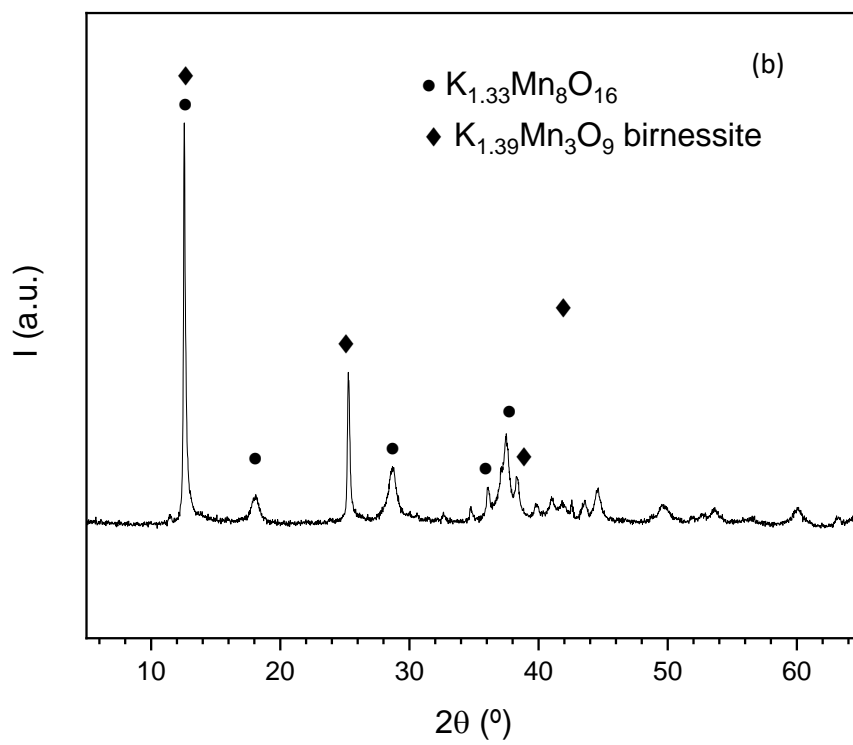


Figure S1.- a) Thermogravimetric analysis under N₂ for all samples. b) XRD profile of KMn8 residue, the maxima were assigned to a mixture of phases: birnessite and K_{1.33}Mn₈O₁₆ ; c) XRD profile of the HKMn residue, the maxima were indexed to K_{1.33}Mn₈O₁₆

Table S1. Weight loss from ATG data (%) and Structural formulas for birnessite-type material obtained from EDX and ATG data

Sample	RT-110°C	110-200°C	250-500°C	Formulae
KMn4	3.1	5.4	2.6	K _{0.3} MnO ₂ ·0.3H ₂ O
KMn8	2.1	6.2	1.5	K _{0.3} MnO ₂ ·0.4H ₂ O
HKMn	3.1	6.8	2.9	K _{0.1} MnO ₂ ·0.4H ₂ O