

## SUPPLEMENTARY MATERIAL

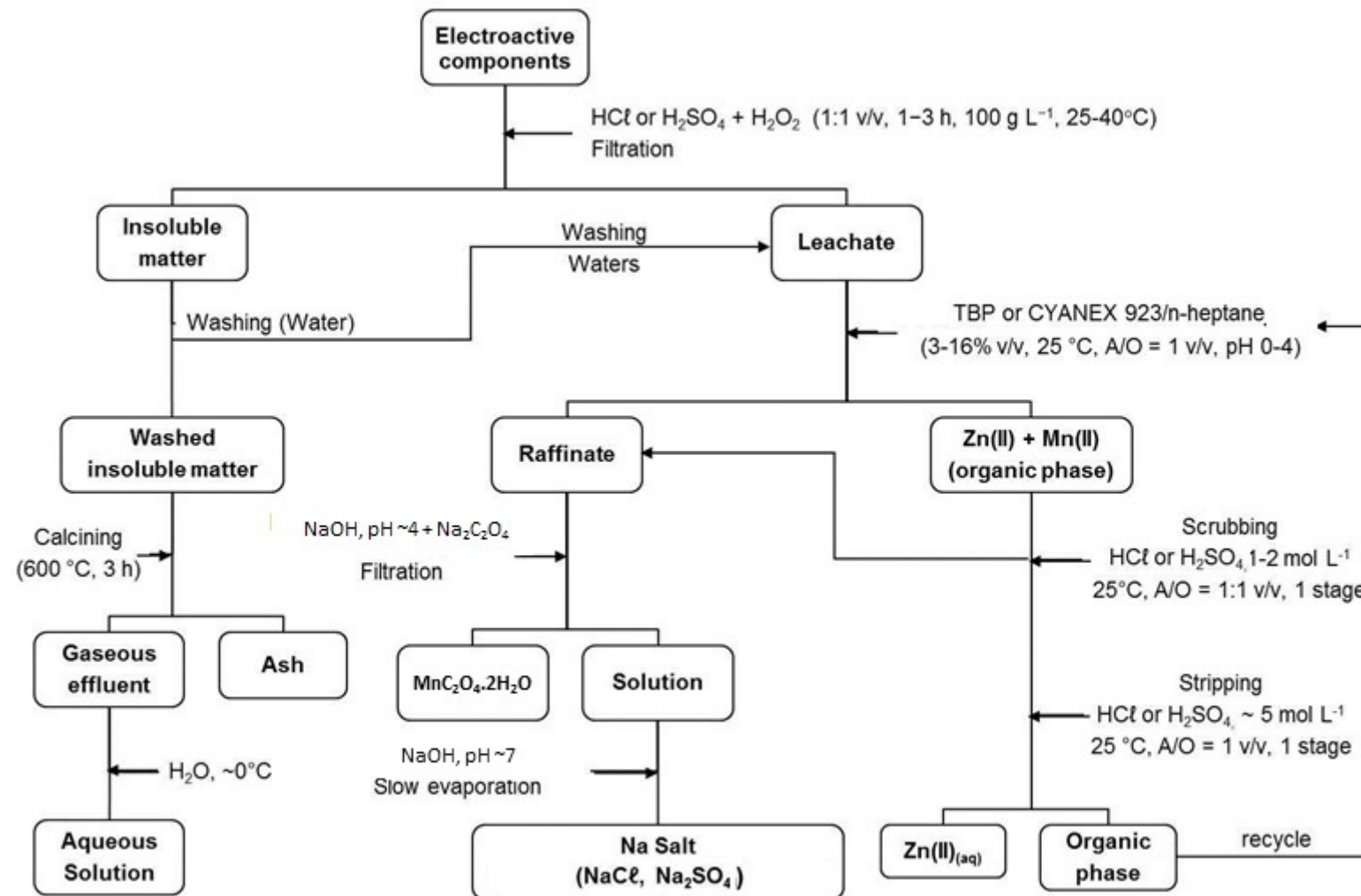
**Separation of zinc from manganese by solvent extraction from acidic leachates of spent zinc-MnO<sub>2</sub> dry cells using neutral organophosphorus extractants**

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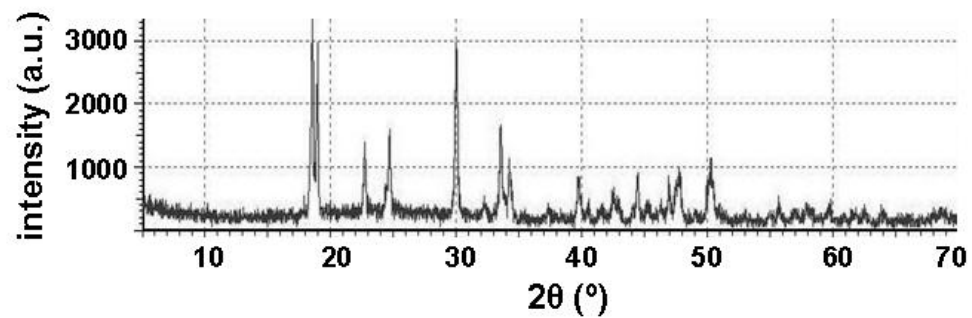
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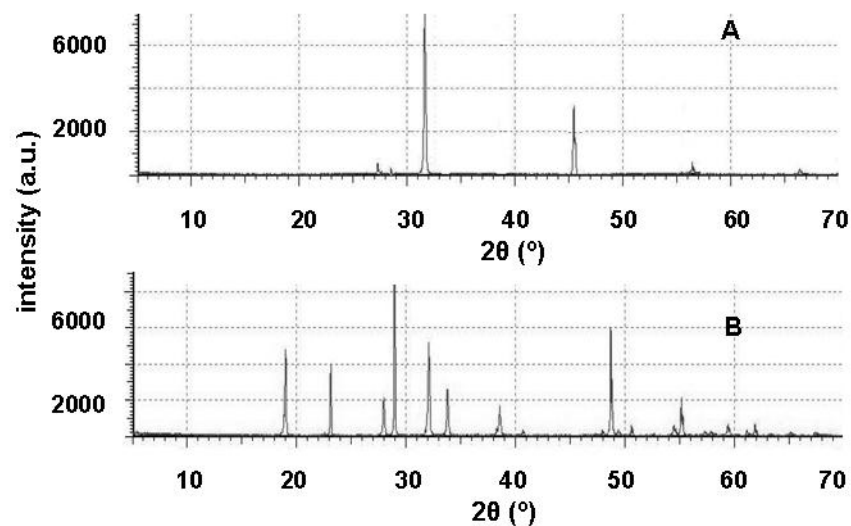
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**Figure 1S.** General scheme for the recovery of zinc and manganese from spent zinc-MnO<sub>2</sub> dry cells after acid leaching in the presence of a reductant



**Figure 2S.** XRPD pattern of the pink solid recovered after addition of sodium oxalate at pH ~4. The peaks represent  $\text{MnC}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$



**Figure 3S.** XRPD patterns of the solids recovered after slow evaporation of the final solution. The peaks represent  $\text{NaCl}$  (A) and  $\text{Na}_2\text{SO}_4$  (B)