

## Accepted Manuscript

Title: Removal of aqueous metazachlor, tembotrione, tritosulfuron and ethofumesate by heterogeneous monopersulfate decomposition on lanthanum-cobalt perovskites

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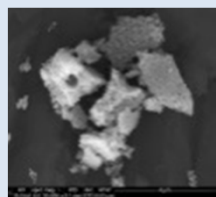
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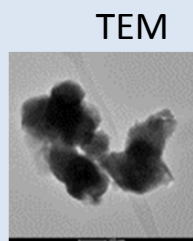
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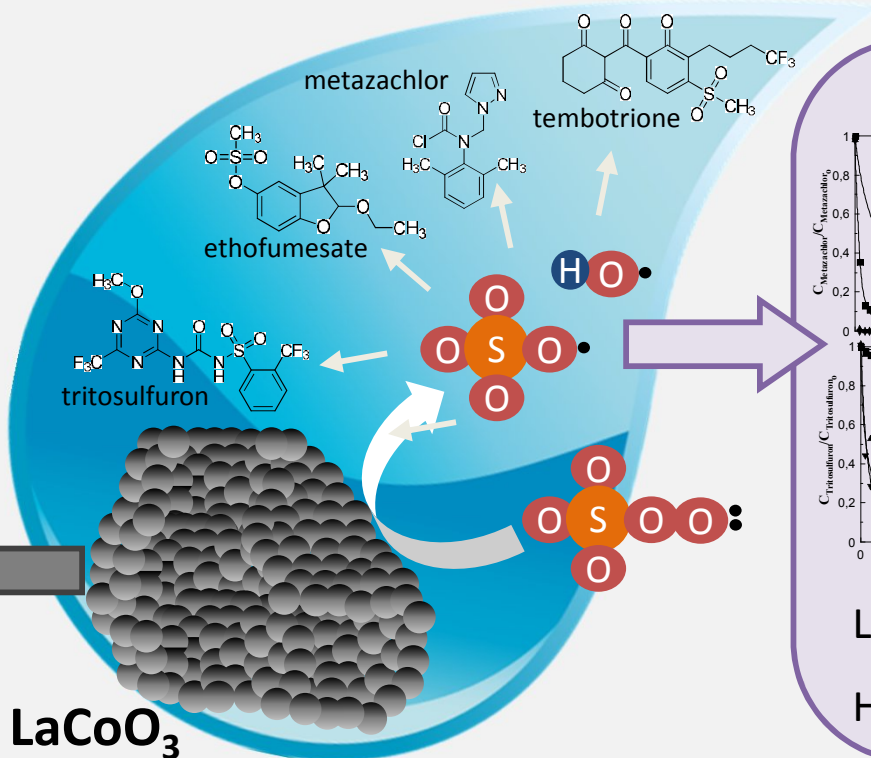
LaCoO<sub>3</sub> CHARACTERIZATION

SEM

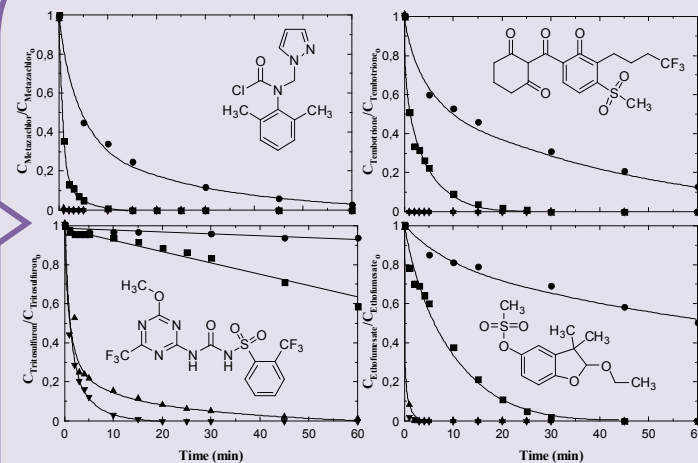


TEM

EDX, XRF: La:Co=1:1 (atomic)

BET: 15.20 m<sup>2</sup> g<sup>-1</sup>XPS: superficial Co<sup>3+</sup> & La<sup>3+</sup>DRX: LaCoO<sub>3</sub> rhombohedralLaCoO<sub>3</sub>

## CATALYST ACTIVITY



Low cobalt leaching at pH&gt;7

High stability after reusing

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