

# NGHIÊN CỨU MỘT SỐ YẾU TỐ ẢNH HƯỞNG TỚI HOẠT TÍNH CỦA PEROVSKIT (LA, CA)FE<sub>1-x</sub>CU<sub>x</sub>O<sub>3</sub>

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## TÓM TẮT:

Abstract: Perovskites LaFe<sub>1-x</sub>Cu<sub>x</sub>O<sub>3</sub> ( $x = 0 - 0.4$ ) and CaFe<sub>0.8</sub>Cu<sub>0.2</sub>O<sub>2.5</sub> were synthesized by the method of Pechini. The other one LaFe<sub>0.8</sub>Cu<sub>0.2</sub>O<sub>3</sub> was synthesized by sol – gel method. The solids obtained were characterized by X – Ray diffraction, Scanning Electron Microscopy (SEM). Examining several factors of effecting on catalytic activity of perovskites in alcohol benzylic oxidation reaction in vapor phase, one notes that Cu content in perovskites structure, preparation method and A metal have effected on catalytic activity. In the perovskites prepared, LaFe<sub>0.8</sub>Cu<sub>0.2</sub>O<sub>3</sub> has been prepared via the method of Pechini, is the best one for reaction in question. It showed hight activity at 3500C, 1.5h<sup>-1</sup>, and 30 minute reaction time.