**NGHIÊN CỨU TỔNG HỢP VẬT LIỆU LaFeO3 BẰNG PHƯƠNG PHÁP SOL – GEL**

TO RESEARCH ON THE SYNTHESIS OF LaFeO3 MATERIAL BY SOL-GEL METHOD

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**SUMMARY**

LaFeO3 material were synthesized by sol-gel method. The gel with La/Fe; PVA/metal and acid citric/metal molar ratio of 1/1; 2/1 and 2/1, respectively was calcined at 750oC for 2 hours. The obtained sample was characterized by X-ray diffraction, EDS spectra, IR spectra, scanning or transmission electron microscopy. The results showed that the sample was single phase LaFeO3, globular with average size of 30-50 nm. The adsorbability in the dark at the room temperature and the catalytic activity under light of the sun of LaFeO3 nanoparticles were evaluated by measuring the degradation of methylene blue (MB). The results showed that after 75 minutes, the MB adsorbability by LaFeO3 in the dark at room temperature was 66,9% and under the light of sun, the MB degradation reached 84%.