**NGHIÊN CỨU TỔNG HỢP VẬT LIỆU YFeO3 BẰNG PHƯƠNG PHÁP SOL-GEL VÀ ỨNG DỤNG**

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**SUMMARY**

The YFeO3 material was synthesized by the sol – gel at 9000C method using polivinyl ancol (PVA), metal nitrates and acid citric with Y/Fe; PVA/metal and acid citric / metal molar ratio of 1/1; 2/1 and 2/1 respectively. The obtained YFeO3 has the ability to adsorb methylen blue solution in the dark at room temperature and the catalytic activity under light of the sun. The samples were characterized by differential thermal analysis (TGA-DTA), X-ray diffraction (XRD), scanning electron microscopy (SEM), transmission electron microscopy (TEM) and UV-Vis spectroscopy. The results showed that the single phase YFeO3 was globular with average size 30-50 nm.The goal of report is to handling environment.