PR-25

SYNTHESIS OF INDONESIAN KAOLIN-nZVI (IK-nZVI), EVALUATION FOR THE REMOVAL OF Pb(II) FROM WASTE STREAMS

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    Abstract. Removal of toxic pollutants from wastewater, such as heavy metals. It has severed the big problem in the world. Several tools have been established to contract with this problem. In this research paper, Indonesian Kaolin-nanozerovalentiron (IK-nZVI) was synthesized as model adsorbent for Pb(II) removal from wastewater. The efficiency of IK supported nZVI for Pb(II) removal efficiency was estimated by accompanying batch experiments. The examined parameters included the amount of IK-nZVI, the concentration of Pb(II) removal and the effect of pH. The results revealed that the IK-nZVI was found to be efficient for the removal of Pb(II) from wastewater.