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Synthesis and characterization of Zeolite /Magnetite composite from iron sand of marina beach (Article)

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Abstract

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The synthesis and characterization of zeolite / magnetite composite was carried out. The iron sand from Marina Beach of Semarang Central Java was used as a source of magnetite and the natural zeolite from Bayat Klaten Central Java as a host material. The magnetite was impregnated into zeolite by a simple chemical route. The structural and crystallinity of the product were characterized by XRD. Whereas the content of the component and morphological properties were determined by SEM and EDX respectively. The XRD patterns show that composite of zeolite /magnetites has been formed and there were high intensity sharp peaks which means the samples are crystalline. The SEM EDX data explain that samples which prepared by zeolite : magnetite ratio 1:1 produced more homogenous size and shape of the particle. © 2017 American Scientific Publishers All rights reserved.

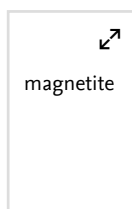
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Sand from marina beach

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