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Adsorption of iron, lead, cadmium and zinc ions as a function of soil particle size

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The adsorption level of lead, iron, cadimium and zinc were examined as a function of soil particle size. The clay soil sample used for the experiment was collected from a defunct brick industry located at Ire-Ekiti in Ekiti State. The experiment result present the concentration of adsorbed metal ions using 40ppm solution on each of the soil particle size (150pm, 300µm, 400µm and 1180µm) at a pH of 10 and time of 36 hours. In conclusion, the research work has shown that adsorption of iron, lead, cadmium and zinc would occur significantly mostly when soil of small particle size is used.

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