

**MODIFIKASI MODEL EMZHA DAN STUDI KOMPARASINYA TERHADAP MODEL
EMZHA ASLI, LANGMUIR, FREUNDLICH, DAN SIPS UNTUK PENYERAPAN ION
LOGAM Cu(II), Cd(II) DAN Pb(II) OLEH BEBERAPA BIOSORBEN**

TESIS

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ABSTRACT

Modified EMZHA Model and Comparison against the Original EMZHA, Langmuir, Freundlich and Sips for Removal of Cu(II), Cd(II) and Pb(II) by Several Biosorbents

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Adsorption process of ion Cu(II), Cd(II) and Pb(II) on some biosorbents from original data experiment using non linear regression of Langmuir, Freundlich, Sips, EMZHA and m-EMZHA isotherms were studied. Commonly a lot of researchers determine it using linear regression with excel program. Nowadays adsorption process was used the original equation of each isotherms, while the m-EMZHA was done by elimination of α constant from EMZHA equation. From the calculation of original data experiments that non linear regression m-EMZHA has better performance than Langmuir, Freundlich, Sips and EMZHA.

Keywords: Biosorbent, Langmuir Model, Freundlich Model, Sips Model, EMZHA Model, Modified EMZHA Model