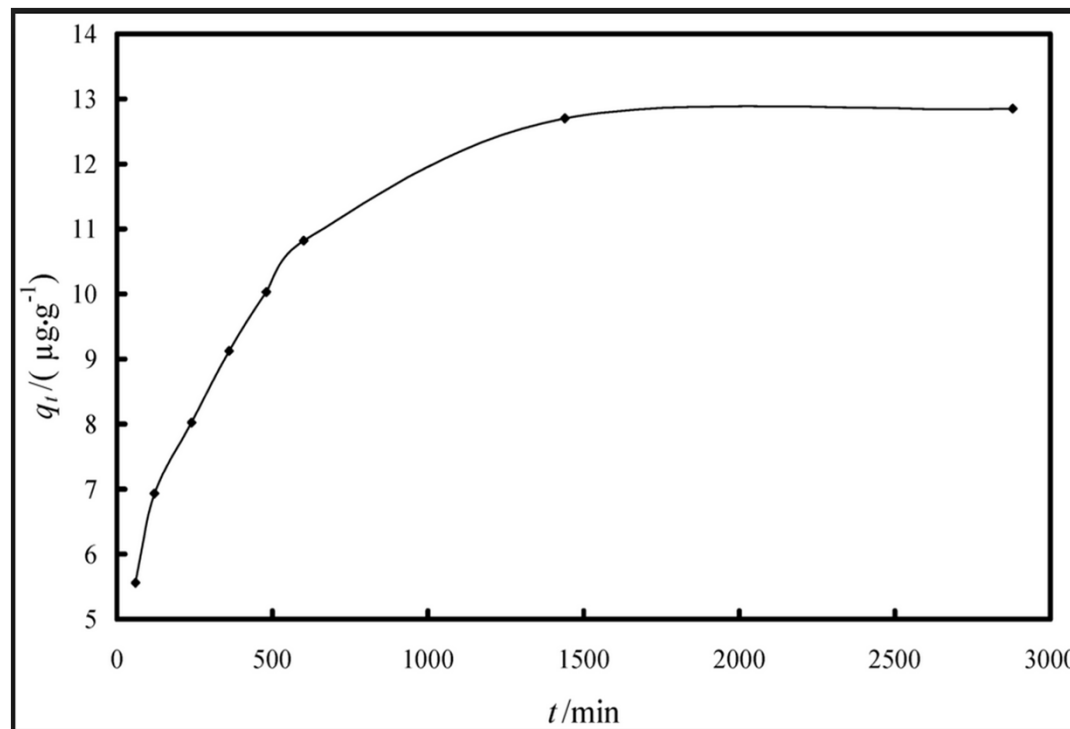


TITLE: Functionalisation of cross-linked polyethylenimine for the removal of As from mining wastewater

LINK: http://www.scielo.org.za/scielo.php?pid=S1816-79502013000200009&script=sci_arttext



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Effect of contact time on the As(V) adsorption capacity of Fe-XAD8-DEHPA pH = 9 ± 0.1 ; T = 298 ± 1 K; C₀ = 100 $\mu\text{g/L}$; m = 0.1 ± 0.0001 g; V = 25 ± 0.1 mL.

Cross-linked polyethylenimine (CPEI) was phosphonated by reaction with phosphorous acid and formaldehyde. The functionalised polymer ... demonstrated an elevated loading capacity, removing up to 88% of As.