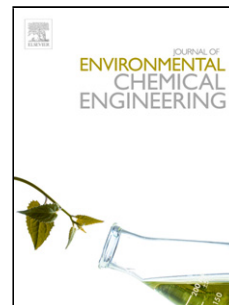


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Authors: Tahereh Asadi, Asghar Azizi, Jae-chun Lee, Mohammad Jahani



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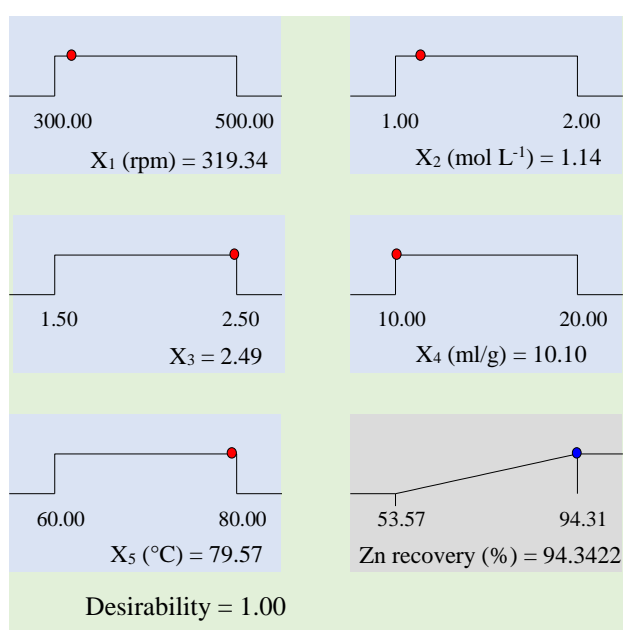
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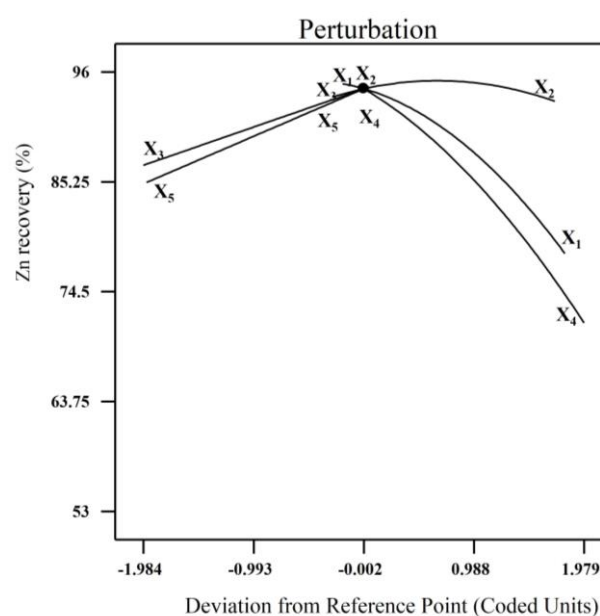
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Graphical abstract

The proposed levels of influential factors including stirring speed (X_1), sulphuric acid concentration (X_2), acid to ferric sulphate ratio (X_3), liquid to solid ratio (X_4) and leaching temperature (X_5) to obtain the maximum Zn leaching rate (a); perturbation plot showing trend of factors for movement towards the optimal point (b).



(a)



(b)

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