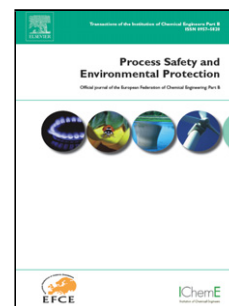


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Adaptive neuro-fuzzy inference system-genetic algorithm vs. response surface methodology: a case of ferric sulfate-catalyzed esterification of palm kernel oil.

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In Memoriam: Professor Stephen Kolawole Layokun, †2016.12.22

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Highlights

- Heterogeneous acid-catalyzed esterification of PKO using ferric sulfate was investigated.
- The process was modeled using RSM and ANFIS with R^2 of 0.9039 and 0.9662, respectively.
- Statistical analysis of the models showed ANFIS was superior to RSM.
- ANFIS-GA gave lower acid value of PKO compared to RSM.

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