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Title: A study of the effect of embedding ZnO-NPs on PVC membrane performance use in actual hospital wastewater treatment by membrane bioreactor

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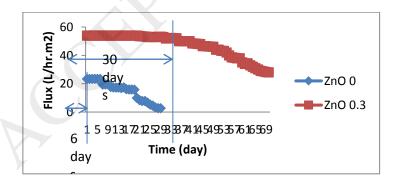
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Graphical Abstract



Long-term results of neat PVC and PVC with 0.3 gm of ZnO-NPs

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