## Accepted Manuscript

Title: Hexavalent chromium removal by multilayer membrane assisted by photocatalytic couple nanoparticle from both permeate and retentate

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PII: S0304-3894(17)30749-5

DOI: https://doi.org/10.1016/j.jhazmat.2017.09.059

Reference: HAZMAT 18905

To appear in: Journal of Hazardous Materials

Received date: 8-7-2017 Revised date: 20-9-2017 Accepted date: 30-9-2017

Please cite this article as: Maryam ossadat Kazemi, Mohsen Jahanshahi, Majid Peyravi, Hexavalent chromium removal by multilayer membrane assisted by photocatalytic couple nanoparticle from both permeate and retentate, Journal of Hazardous Materials https://doi.org/10.1016/j.jhazmat.2017.09.059

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### ACCEPTED MANUSCRIPT

# Hexavalent chromium removal by multilayer membrane assisted by photocatalytic couple nanoparticle from both permeate and retentate

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