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List of Publications

PAPERS IN REFEREED JOURNALS

1. H. Muhamad, S.R. Upreti, A. Lohi, and H. Doan, 2015, Optimal Control Study to Enhance Oil Production in Lab-scale Vapex by Varying Solvent Injection Pressure with Time, accepted, *Journal of Optimal Control, Applications and Methods*.
2. A. Abdelrasoul, H. Doan, A. Lohi and C.H. Cheng, 2014, Morphology of Polysulfone Membranes and Controlling it in Filtration Processes: A Critical Review, in press, *ChemBioEng Reviews-Wiley* (cben.201400030), accepted.
3. A. Abdelrasoul, H. Doan, A. Lohi and C.H. Cheng, 2014, Modeling of fouling and fouling attachments as a function of the zeta potential of heterogeneous membranes surfaces in ultrafiltration of latex solution. *Industrial & Engineering Chemistry Research*. 53: 9897–9908.
4. A. Abdelrasoul, H. Doan, A. Lohi and C.H. Cheng, 2014, Modeling development for ultrafiltration membrane fouling of heterogeneous membranes with non-uniform pore size. *The Canadian Journal of Chemical Engineering*. 92: 1926-1938.
5. Mays Alhamami, Huu Doan and Chil-Hung Cheng, 2014, A Review on Breathing Behaviors of Metal-Organic-Frameworks (MOFs) for Gas Adsorption, *Materials* 7(4), 3198-3250, doi:10.3390/ma7043198.
6. A. Abdelrasoul, H. Doan, A. Lohi and C.H. Cheng, 2014, Modeling of fouling and foulant attachments on heterogeneous membranes in ultrafiltration of latex solution, *Separation and Purification Technology*. 135(2014):199-210.
7. S. Khodaei Booran, H.D. Doan and A. Lohi, 2014, Recovery of Zn (II) and Ni (II) Binary from Wastewater using Integrated Biosorption and Electro-deposition, accepted, *Clean: Soil, Air, Water* 42(9999):1-7.
8. A. Abdelrasoul, H. Doan and A. Lohi, 2014, Effect of pH on fouling attachments and power consumption in ultrafiltration of latex solution. *The Canadian Journal of Chemical Engineering*. 92(7): 1293-1305
9. A. Abdelrasoul, H. Doan and A. Lohi, 2013, A mechanistic model for ultrafiltration membrane fouling by latex. *Journal of Membrane Science*. 433: 88-99
10. A. Abdelrasoul, H. Doan and A. Lohi, 2013, Impact of operating conditions on fouling probability and cake height in ultrafiltration of latex solution. *Journal of Membrane and Separation Technology*. 2: 134-147
11. A. Abdelrasoul, H.D. Doan and A. Lohi, 2013, Fouling in membrane filtration and remediation methods, in "Mass Transfer: Advances in Sustainable Energy and Environment Oriented Numerical Modeling, H. Nakajima (Ed.), Intech Open Access Publisher, 195-218.
12. E. Mastan, J. Wu and H. Doan, 2013, An investigation into surface modification of polyethylene films for hydrophilicity enhancement by catalytic ozonation, *J. Appl. Pol. Sci.* 128(1):828-835.

13. H. Muhamad, S. Upreti, A. Lohi and H. Doan, 2012, Performance Enhancement of Vapex by Temporal Variation of Solvent Injection Pressure, *J. Petro. Sci. Eng.* (96-97): 93-101.
14. H. Muhamad, S. Upreti, A. Lohi and H. Doan, 2012, Performance Enhancement of Vapex by Varying the Propane Injection Pressure with Time, *Energy & Fuels* 26 (6): 3514-3520.
15. H.D. Doan and A. Lohi, 2011, Measurement of liquid velocity and liquid distribution in a packed bed using electrical resistance tomography, in *Mass Transfer-Advanced Aspects*, Hironori Nakajima (Ed.), Intech Open Access Publisher, 729-742.
16. A.G. Gomez, G. de Silveira, H. Doan and C.H. Cheng, 2011, A facile method to tune zeolite L crystals with low aspect ratio, *Chem. Commun.*, 47 (20): 5876 – 5878.
17. H. Muhamad, H.D. Doan and A. Lohi, 2010, Batch and continuous fixed-bed column biosorption of Cd^{2+} and Cu^{2+} , *The J. Chem. Eng.* (158): 369-377.
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21. V. B.H. Dang-Vu, H.D. Doan, T. Dang-Vu and A. Lohi, 2009, Equilibrium and kinetics of biosorption of cadmium (II) and copper (II) ions by wheat straw, *J. Bioresource Technology*. (100): 211-219.
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 41. Doan, H.D., O. Trass and M.E. Fayed, 1999, Investigation of Urea Release from a Coated Sphere into a Quiescent Liquid, *Ind. Eng. Chem. Res.*, 38 (3):1125-1132.
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REFEREED CONFERENCE PROCEEDINGS

1. A. Abdelrasoul, H. Doan, A. Lohi, 2015, Membrane fouling remediation using anionic and cationic surfactants in ultrafiltration of simulated latex paint effluent, in *Proceedings of The 44th. Water Environment Association of Ontario WEAO 2015 Conference*, April 19-21, 2015, Toronto, Ontario, Canada.
2. A. Abdelrasoul, H. Doan, A. Lohi, 2014, Membrane fouling remediation in ultrafiltration of latex contaminated water and wastewater, *Proceedings of The 2014 International on Marine and Freshwater Environments*, August 6-8, 2014, St. John, Newfoundland, Canada (available online at <http://journals.library.mun.ca/ojs/index.php/IMFE>).

CONFERENCE PAPERS AND PRESENTATIONS

1. A. Abdelrasoul, H. Doan, A. Lohi, 2015, Cationic surfactants influence on the fouling phenomenon control in ultrafiltration of latex contaminated water and wastewater, ICES 2015 International Conference on Engineering Sciences, May 11-12,2015, Montreal, Quebec, Canada. (International, Oral Presentation) (ID# 15CA050377)

2. A. Abdelrasoul, H. Doan, A. Lohi, 2015, Mathematical Modeling of the Fouling Phenomenon in Ultrafiltration of Latex Effluent, ICES 2015 International Conference on Engineering Sciences, May 11-12, 2015, Montreal, Quebec, Canada. (International, Oral Presentation) (ID# 15CA050378)
3. A. Abdelrasoul, H. Doan, A. Lohi, 2015, A Mechanistic Fouling Attachment Model for Homogenous and Heterogeneous Membranes in Ultrafiltration of Latex Solution, accepted for *Proceedings of The AMTA/AWWA 2015 Membrane Technology Conference & Exposition*, March 2-5, 2015 – Orlando, FL. (MTC15).
4. A. Abdelrasoul, H. Doan, and A. Lohi, 2014, Development of a fouling model for heterogeneous membranes in ultrafiltration of latex solution, *The 64th. Canadian Chemical Engineering Conference*, October 19-22, 2014, Niagara Falls, ON, Canada.
5. A. Abdelrasoul, H. Doan, and A. Lohi, 2014, Modeling of depositional and coagulation attachments on hydrophilic heterogeneous membranes – application in latex solution ultrafiltration, *The 64th. Canadian Chemical Engineering Conference*, October 19-22, 2014, Niagara Falls, ON, Canada.
6. A. Abdelrasoul, H. Doan, and A. Lohi, 2014, Effect of the membrane surface zeta potential on fouling attachments in ultrafiltration of latex solution – experimental simulations and modeling, *The 64th. Canadian Chemical Engineering Conference*, October 19-22, 2014, Niagara Falls, ON, Canada.
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11. K.S. Baig, G. Turcotte, H. Doan and J. Wu, 2013, Adsorption of Cellulases NS50013 on Avicel PH101 and Protobind 1000, October 2013, *The 63rd. Canadian Chemical Engineering Conference*, October 2013, Fredericton, NB, Canada.
12. A. Abdelrasoul, H. Doan and A. Lohi, 2012, Impact of chemical attachments in ultrafiltration membrane fouling by latex, *The 62nd. Canadian Chemical Engineering Conference*, October 2012, Vancouver, BC, Canada.
13. S. Khodaie-Booran, H. Doan and A. Lohi, 2012, Removal and recovery of Zinc(II) and Nickel(II) in continuous biosorption, desorption and electro-deposition, *The 62nd. Canadian Chemical Engineering Conference*, October 2012, Vancouver, BC, Canada.
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 17. H. Muhamad, S. Upreti, A. Lohi and H. Doan, 2011, Performance enhancement of VAPEX by temporal variation of solvent injection pressure, *The 61st. Canadian Chemical Engineering Conference*, October 23-26, 2011, London, Ontario, Canada.
 18. Doan, H., A. Lohi and R. Bedasie, Investigation of the fouling of polycarbonate membrane used in ultrafiltration of latex paint, *WaterEx 2011*, March 30-April 01, 2011, Beijing, China.
 19. Hmood, A., H. Doan and J. Wu, Optimization of the Precipitation of Zn^{2+} and Ni^{2+} in Wastewater: Influence of Rapid Mixing Parameters, *The 60th. Canadian Chemical Engineering Conference*, October 24-27, 2010, Saskatoon, Saskatchewan, Canada.
 20. Bedasie, R., H. Doan and A. Lohi, An Investigation into the Fouling Phenomena of Polycarbonate Membrane Used in the Treatment of Latex Paint Wastewater, *The 60th. Canadian Chemical Engineering Conference*, October 24-27, 2010, Saskatoon, Saskatchewan, Canada.
 21. Baig, K.S., H.D. Doan and J. Wu, 2009, Transport and Mechanism of Biosorption of Ni^{2+} and Zn^{2+} on Wheat Straw, *The 8th World Chemical Congress of Chemical Engineering (WCCE8)*, August 23-27, 2009, Montreal, Quebec, Canada.
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 27. Dang, V.B.H., H.D. Doan, T. Dang-Vu and A. Lohi, 2007, Equilibrium and kinetics of adsorption of cadmium (II) and copper (II) ions by wheat straw, *The 57th. CSChE. Conference*, October 28-31, 2007, Edmonton, Alberta, Canada.
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33. Lam, C. and H.D. Doan, 2005, Photocatalytic and Electrochemical Treatment of Wastewater in a Rotary Reactor, *The 55th. CSChE. Conference*, October 2005, Toronto, Canada.
34. Dang-Vu, T, A. Lohi and H.D. Doan, 2005, Mass Transfer Variation in a Packed Bed: A Mathematical Model, *The 55th. CSChE. Conference*, October 2005, Toronto, Canada.
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