

## مقالات در مجلات بین المللی ISI

1. N. Kasiri, Z. Shabani, T. Mohammadi, Mohammad Kahrizi, Soleyman Sahebi A novel Thin film composite forward osmosis membrane using bio-inspired polydopamine coated polyvinyl chloride substrate: Experimental and computational fluid dynamics modelling, *Process Safety and Environmental Protection*, 2021, 1399
2. N. Kasiri, T. Janfada, H. Class, M. R. Dehghani, Comparative Experimental Study on Heat up Efficiencies During Injection of Superheated and Saturated Steam into Unsaturated Soil, *International Journal of Heat & Mass Transfer*, 2020, 1399
3. N. Kasiri, A. H. Khalili, J. Ivakpour, Feasibility study on replacement of atmospheric distillation column with new sequences in a natural gas condensate refinery, *Computers and Chemical Engineering*, 2020, 1399
4. N. Kasiri, A. Tamuzi, A. H. Khalili, Design and optimization of distillation column sequencing for NGL fractionation processes, *Journal of Natural Gas Science & Engineering*, 2020, 1398
5. N. Kasiri, N. Khalili, J. Ivakpour, M. H. Khanof, A. H. Khalili, Optimal configuration of ternary distillation columns using heat integration with external heat exchangers, *Energy*, 2019, 1398
6. N. Kasiri, I. Shiryanpour, Hydrogen flame propagation inside an obstructed chamber, *International Journal of Hydrogen Energy*, Vol 44, Issue45, 2019, 1398
7. N. Kasiri, I. Shiryanpour, Effects of sphericity coefficient and fuel type on flame propagation inside an obstructed chamber, *European Physical Journal Plus*, 2019, 1398
8. N. Kasiri, A. H. Behrouzi, T. Mohammadi, Empirical modeling coupled with pore blocking for predicting cake formation of electric field effects on oily waste water cross-flow microfiltration, *Journal of Membrane Science*, Vol 584, 2019,1398
9. N. Kasiri, A. H. Behrouzi, T. Mohammadi, Multi-phenomenal macroscopic investigation of cross-flow membrane flux in microfiltration of oil-in-water emulsion, experimental & computational, *Journal of Water Process Engineering*, Vol 32, 2019,1398
10. N. Kasiri, M. Kahrizi, T. Mohammadi, Sh. Zhao, Introducing sorption coefficient through extended UNIQUAC and Flory-Huggins models for improved flux

- prediction in forward osmosis, *Chemical Engineering Science*, Vol 198, 2019, 1398
11. N. Kasiri, S. Jamshidifard, M. Shirvani, S. Movahedirad, Fine particle removal from gas stream using a helical-duct dust concentrator: Numerical study, *Chemical Engineering and Processing - Process Intensification*, Vol 143, 2019, 1398
  12. N. Kasiri, M. Nezhadfarad, A. H. Khalili, Development of the Reaction/Distillation matrix to include more complicated Reaction/Distillation systems and performance evaluation using an ethylene hydration case study, *Chemical Engineering Research and Design*, Vol 139, 2018, 1397
  13. N. Kasiri, M. Nezhadfarad, A. H. Khalili, L. Emami, M, H, Khanof, J, Ivakpour, Development of A Reaction/Distillation Matrix for Systematic Generation of Sequences in A Single Two Component Reaction-Separation Case Study, *computers and chemical engineering*, Vol 117, 2018, 1397
  14. N. Kasiri, S. Roshdi, A. Rahbar, Simulation of Marangoni convection effects on the hydrodynamics of liquid–liquid extraction drops, *Chemical Engineering Communications*, Vol 206, 2019, 1397
  15. N. Kasiri. S. Roshdi, A. Rahbar, VOF Simulation of Single Rising Drops in Three Liquid-Liquid Extraction Systems Using CSF and CSS Interfacial Force Models, *Brazilian Journal of Chemical Engineering*, Vol 35, 2018, 1397
  16. N. Kasiri, I. Shiryanpour, A Review Study on Premixed Flame Propagation: Simulation and Modeling, *Chimica Oggi-Chemistry Today (recent advances in chemical & engineering)*, 2018, 1397
  17. N. Kasiri, F. Keshavarz, S. Roshdi, M. H. Khanof, CFD simulation and experimental validation of bubble cap tray hydrodynamics, *Separation and Purification Technology*, Vol 192, 2018, 1396
  18. N. Kasiri, M. Abbasi, T. Mohammadi, A CFD model for prediction of critical electric potential preventing membrane fouling in oily waste water treatment, *Journal of Membrane Science*, Vol 539, 2017, 1395
  19. N. Kasiri, P. Jouybanpour, R. Ehsani, Utilize Genetic Programming to Develop New Point Efficiency Correlation, *Hydrocarbon Processing*, Volume 95, 2016, 1395
  20. N. Kasiri, P. Jouybanpour, R. Ehsani, The Effect of Various Parameters on Tray Point Efficiency, *Hydrocarbon Processing*, Volume 93, 2016, 1395

21. N. Kasiri, M. Abbasi, T. Mohammadi, Microscopic Modeling of Critical Pressure of Permeation in Oily Waste Water Treatment via Membrane Filtration, Royal Society of Chemistry (RSC), Volume 75, 2016, 1395
22. N. Kasiri, A. H. Khalili, J. Ivakpour, A New Search Space Reduction Method Based on Exergy Analysis for Distillation Columns Synthesis, Energy, Volume 116, 2016, 1395
23. N. Kasiri, N. Ghobadi, T. Mohammadi, Modified poly (vinyl alcohol)/chitosan Blended Membranes for Isopropanol Dehydration via Pervaporation: Optimization and Modelling by Response Surface Methodology, Journal of Applied Polymer Science, 2016, 1395
24. N. Kasiri, S. Jamshidifar, M. Shirvani, S. Movahedi, Improved Fine Particle Removal from Gas Streams Using a New Helical-duct Dust Concentrator, Chemical Engineering Research & Design, 2016, 1395
25. N. Kasiri, D. Hajavi, J. Ivakpour, A comparative study of different arrangements for methanol distillation process, Chinese Journal of Chemical Engineering, 2016, 1395
26. N. Kasiri, S. Edrisi, M. Haghghi, A New Approach to Modeling the Effective thermal conductivity of Ceramics Porous Media Using a Generalized Self-Consistent Method, Heat & Mass Transfer, 2016, 1395
27. N. Kasiri, A. Ghadimi, T. Mohammadi, Mathematical modeling of gas transport through PEBA/ (nonporous silica) nanocomposite membranes: Development based on Van Amerongen and Van Krevelen relations, Separation and Purification Technology, 2016, 1395
28. N. Kasiri, A.H. Khalili, J. Ivakpour, Evolutionary Synthesis of Optimum Distillation Sequences with Exergy Analysis Application, Applied Energy, Volume 168, Pages 507–522, 2016, 1394
29. N. Kasiri, A.H. Khalili, J. Ivakpour, Matrix Based Method for Synthesis of Main Intensified and Integrated Distillation Sequences, Korean Journal of Chemical Engineering (KJCE), 2016, 1394
30. N. Kasiri, A. Ghadimi, T. Mohammadi, Gas permeation, sorption and diffusion through PEBA/SiO<sub>2</sub> nanocomposite membranes (Chemical surface modification of nanoparticles), International Journal of Hydrogen Energy, 2015, 1394
31. N. Kasiri, M.R. Akbari, A Novel and Robust Mixing Rule Model Coupled with Neural Network for Rapid Determination of Minimum Miscibility Pressure, Energy Sources, Part A: Recovery, 2015, 1394

32. N. Kasiri, R. Seifollahy Astaraee, T. Mohammadi, Analysis of BSA, dextran and humic acid fouling during microfiltration, experimental and modeling, *Food and Bioproducts Processing*, 2015, 1393
33. N. Kasiri, H. Shahandeh, J. Ivakpour, M. Jafari, Economic optimization of heat pump-assisted distillation columns in methanol-water separation, *Energy*, 2015, 1393
34. N. Kasiri, Z. Zourmand, T. Mohammadi, F. Faridirad, Mass Transfer Modeling of Ion Transport through an Electrodialysis Cell, *Desalination*, 2015, 1393
35. N. Kasiri, H. Shahandeh, J. Ivakpour, Feasibility study of heat-integrated distillation columns using rigorous optimization, *Energy*, 2014, 1393
36. N. Kasiri, A. Ghadimi, T. Mohammadi, M. Esmaeeli, A Novel Chemical Surface Modification for Fabrication of PEBA/SiO<sub>2</sub> Nanocomposite Membranes to Separate CO<sub>2</sub> from Syngas and Natural Gas Streams, *Industrial & Engineering Chemistry Research*, 2014, 1393
37. N. Kasiri, F. Faridirad, Z. Zourmand, T. Mohammadi, M. Kazemi Moghaddam, Modeling of Suspension Fouling in Nanofiltration, *Desalination*, 2014, 1393
38. N. Kasiri, P.H. Niknam, M. H. Khanof, M. Haghighy, Numerical study of nanofluids pool boiling, investigating of boiling parameters introducing nucleation site density ratio, *Heat and Mass Transfer*, 2014, 1393
39. N. Kasiri, A. Ghadimi, M. Amirilargani, T. Mohammadi, B. Saadatnia, Preparation of alloyed poly (Ether Block Amid) / poly (ethylene glycol diacrylate) membranes for separation of CO<sub>2</sub>/H<sub>2</sub> (Syngas application), *Journal of Membrane Science*, 2014, 1393
40. N. Kasiri, H. Shahandeh, J. Ivakpour, Internal/External Heat-Integrated Distillation Column (HIDiC) Optimization by Genetic Algorithm, *Energy*, 2014, 1392
41. N. Kasiri, E. Farno, M.R. Kazami, T. Mohammadi, Ternary gas permeation through synthesized pdms membranes: Experimental and CFD simulation based on sorption-dependent system using neural network model, *Polymer Engineering & Science*, 2013, 1392
42. N. Kasiri, S. Roshdi, S.H. Hashemabadi, J. Ivakpour, Computational fluid dynamics simulation of multiphase flow in packed sieve tray of distillation column, *Korean Journal of Chemical Engineering*, 2013, 1391
43. N. Kasiri, R. Nobakht, H. Firouzfard, M. H. Khanof, A simple mathematical model for slug liquid holdup in horizontal pipes, *Scientia Iranica*, 2012, 1391

44. N. Kasiri, Y. Shirazi, E. Farno, H. Shadmajareh, M. Sadrzadeh, T. Mohammadi, Effect of operating conditions on PV performance of PVA membranes: Experimental and Neural Network modeling, *Separation Science and Technology*, 2012, 1391
45. N. Kasiri, M. Abbasi Monfared, A. Salahi, T. Mohammadi, CFD simulation of baffles arrangement for gelatin-water ultrafiltration in rectangular channel, *Desalination*, 2012, 1391
46. N. Kasiri, M. Abbasi Monfared, A. Salahi, T. Mohammadi, Modeling Ultrafiltration of Gelatin-Water Suspension by Computational Fluid Dynamics, *Chemical Engineering Research and Design*, 2012, 1391
47. N. Kasiri, H. Shokrkar, Salahi, T. Mohammadi, Prediction of permeation flux decline during MF of oily wastewater using genetic programming, *Chemical Engineering Research and Design*, 2012, 1390
48. N. Kasiri, E. Farno, A. Ghadimi, T. Mohammadi, Separation of heavy gases from light gases using synthesized PDMS nanocomposite membranes: Experimental and neural network modeling, *Separation and Purification Technology*, 2011, 1390
49. N. Kasiri, F. Farshad, M. Irvaniniya, T. Mohammadi, J. Ivakpour, Separation of toluene/n-heptane mixture Experimental, Modeling and Optimization, *Chemical Engineering Journal*, 2011, 1390
50. N. Kasiri, Gh. Bashiri, A Gas-assisted Gravity Drainage Process in Naturally Fractured Reservoirs, *Energy Sources, Part A: Recovery*, 2011, 1390
51. N. Kasiri, Gh. Bashiri, Wettability and its Effect on oil Recovery in Fractured and Conventional Reservoirs, *Petroleum Science and Technology*, 2011, 1390
52. N. Kasiri, Gh. Bashiri, Status of Dual Continuum Models for Naturally Fractured Reservoir simulation, *Petroleum Science and Technology*, 2011, 1390
53. N. Kasiri, H. Shokrkar, A. Salahi, T. Mohammadi, Mullite Ceramic Membranes for Industrial Oily Wastewater Treatment: Experimental and Neural Network Modeling, *Water Science & Technology*, 2011, 1390
54. N. Kasiri, M. Haghghi, A Three-dimensional Analytical Model for the Effective Thermal Conductivity and Porosity in High-porosity Metal Foam Using a, *Journal of Enhanced Heat Transfer*, 2010, 1389
55. N. Kasiri, M. Haghghi, Estimation of Effective Thermal Conductivity Enhancement Using Foam in Heat Exchangers Based on a New Analytical Model, *Brazilian Journal of Chemical Engineering*, 2010, 1389

56. N. Kasiri, Gh. Bashiri, Comparative Study of Different Techniques for Numerical Reservoir Simulation, *Petroleum Science and Technology*, 2010, 1389
57. N. Kasiri, M. Sadrzadeh, T. Mohammadi, J. Ivakpour, Neural Network Modeling of Pb+2 Removal from Wastewater Using Electrodialysis, *Chemical Engineering and Processing: Process Intensification*, 2009, 1388
58. N. Kasiri, J. Ivakpour, Synthesis of Distillation Column Sequences for Non-Sharp Separations, *Industrial & Engineering Chemistry Research*, 2009, 1388
59. N. Kasiri, M.A. Ghayyem, Rate Based Model in H2S and CO2 Absorption Column Using Alkanolmine Solutions, *International Journal of Engineering Science*, 2008, 1387
60. N. Kasiri, E. MirzahoseinKashani, Mathematical Modeling of a Cross Flow Conveyor Belt Dryer, *Scientia Iranica*, 2008, 1387
61. N. Kasiri, M. Sadrzadeh, T. Mohammadi, J. Ivakpour, Separation of Lead Ions from Wastewater using Electrodialysis: Comparing Mathematical and Neural Network Modeling, *Chemical Engineering Journal*, 2008, 1387
62. N. Kasiri, Garnavi, S.H. Hashemabadi, Mathematical Modeling of a Continuous Fluidized Bed Dryer, *International Communications in Heat and Mass Transfer*, 2006, 1385
63. N. Kasiri, Pittman, The Motion of Rigid Rod-Like Particles Suspended in Non-Homogeneous Flow Fields, *International Journal of Multiphase Flow*, Vol 18, 1992, 1371