

Curriculum Vitae



FIRST NAME **NASSER**

SURNAME **SAGHTOLESLAMI**

EDUCATION & AFFILIATION **PhD** **Leeds University**, Chemical Engineering, *1996*
Dissertation: Numerical Simulation of Heat and Flow in Particulate Systems

MS **Texas A&M University**, Natural Gas Engineering, *1982*
Thesis: Preliminary Design of a Gasoline plant

BS **Texas A&M University**, Natural Gas Engineering, *1980*

Affiliation Retired Associate Prof. of Chemical Eng. from Ferdowsi University

RESEARCH INTERESTS Biodiesel Fuels, Computational Fluid Dynamics in Flow and Heat transfer, Laser Doppler Anemometry in Flow and Heat transfer.

TAUGHT COURSES Advanced fluid dynamics, Advance thermodynamics, Computational Fluid Dynamics, Thermodynamics, Heat transfer, Material and energy balance, Engineering mathematics, Piping design for process plants.

Doctoral Students Advised: 7 students were supervised and graduated

Masters Students Advised: more than 60 students were supervised and graduated

PUBLICATIONS & INTERNATIONAL PATENTS

Patents

1. Preparation of nano porous carbon graphene nitrites from melamine production wastes, registered in 2016
2. Synthesis of nano calcium aluminate bars using combustion synthesis method, registered in 2018

Books

1. Neural Networks and its Applications in Gas, oil and Chemical Industries, published in 2008

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2. Handbook of COMSOL Multiphysics, published in 2008
3. Design of Heat exchangers using FLUENT, published in 2011
4. New Methods in the Production of Clean Energy Biodiesel Fuel, published in 2016

Journal Publications Papers Titles (published in English):

1. Modeling of Texture and Color Froth Characteristics for Evaluation of Flotation Performance in Sarcheshmeh Copper Plant, Using Image Analysis and Neural Networks, International Journal of Engineering (ISI), 2003
2. Energy Conservation by Waste Heat Recovery in Industry Using Thermosyphon Heat Exchangers, Iranian Journal of Science and Technology (ISI), 2003
3. Design of the Reactor, Selection of Catalyst for Ortho to Para Hydrogen Conversion and Preliminary Design of Cryogenic System for its Liquefaction, Iran J. Chem. & Chemical Engineering (ISI), Vol. 23, 2004
4. Experimental Investigation of Power Consumption, Mass Transfer Coefficient and Flow Regime in Gas-Liquid Dispersion Systems, IChE (ISI), Vol. 3, No.2, 2006
5. Comparative Study of Artificial Neural Nets (ANN) and Statistical Method for Predicting the Performance of Ultrafiltration Process in the Milk Industry, Iran J. Chemistry & Chemical Engineering (ISI), (Vol. 23, 2006)
6. A Neuro-Fuzzy Model for a Dynamic Prediction of Milk Ultrafiltration Flux and Resistance, Iran J. Chemistry & Chemical Engineering (ISI), Vol. 26, 2007
7. Fuzzy inference system to modeling of crossflow milk ultrafiltration, Int. J. of Soft Computing (ISI), 2008
8. Identification and control of MIMO systems with state time delay, J. of Chemical & Petroleum Engineering (ISI), 2011
9. Experimental Investigation of the Thermal Behavior in a Two-Phase Closed Thermosyphons Characterized by the Evaporator Geometry, Inclination Angle, Coolant Flow Rate and Filling Ratios, IChE (ISI), 2006
10. Prediction of Thickness and Fouling Rate in Pulsating Flow Heat Exchangers, Using FLUENT Simulator, Kiche (ISI), 2009
11. Identification and Control of MIMO Systems with State Time Delay, J. of Chemical & Petroleum Engineering (ISI), 2011
12. A Robust Artificial Neural Network Scheme for a Group of Hydrocarbons in Predicting the Overall Sieve Tray Efficiency, Journal of Natural Gas Science & Engineering (ISI), 2011
13. Auto-design of neural network based GAs for manipulating the Khangiran gas refinery sweetening absorption column outputs, PSE (ISI), 2010
14. Fabrication and evaluation of human serum albumin (HAS) nanoparticles for drug delivery application, International Journal of Nanoscience, 2009
15. Prediction of water activity coefficient in TEG-water system using diffusion neural network (DNN), Chem. Biochem. Eng. Q. (ISI), 2010
16. Controlling Nonlinear Processes, Using Laguerre Functions Based Adaptive Model Predictive Control (AMPC) Algorithm, J. of Chemical & Petroleum Engineering (ISI), 2011
17. Preparation of Nano Size Al-Promoted Sulfated Zirconia and the Impact of Calcinations Temperature on Its Catalytic Activity, Chem. Biochem. Eng. Q. (ISI),

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2012

18. Prediction of Flooding and Pressure Drop in a Spinning Cone Column Using Neural Networks, International Journal of Industrial Chemistry (ISC), 2012
19. Liquid- liquid extraction of aromatics from their mixtures with alkanes using 1-methyl 3-octylimidazolium thiocyanate ionic liquid, The Journal of Chemical Thermodynamics (ISI), 2012
20. Preparation of Nano-Size Al-Promoted Sulfated Zirconia and the Impact of Calcination Temperature on Its Catalytic Activity, Chem. Biochem. Eng. Q. (ISI), 2012
21. Experimental Study of CMC Evaluation in Single and Mixed Surfactant Systems, Using UV-Vis Spectroscopic Method, Journal of Surfactants and Detergents (ISI), 2012
22. Effect of calcination temperature on catalytic activity of synthesis SrO/S-ZrO₂ by solvent-free method in esterification of oleic acid, Chem. Biochem. Eng. Q. (ISI), 2012
23. Carbonaceous Nanostructured Support Materials for Low Temperature Fuel Cell Electrocatalysts—A Review, World Journal of Nano Science and Engineering, 2013
24. Image Analysis Technique as a Tool for Extracting Features from the Copper Surface Froth in the Flotation Process, American Journal of Chemical Engineering, 2013
25. Assessment of the micellar-enhanced ultrafiltration process with a tight UF membrane for the removal of aniline from water, Desalination and Water Treatment (ISI), 2014
26. Simultaneous removal of aniline and nickel from water by micellar-enhanced ultrafiltration with different molecular weight cut-off membranes, Separation and Purification Technology (ISI), 2014
27. Non-carbonaceous nanostructured support materials for low temperature fuel cell electrocatalysts, Nano Science and Nano Technology An Indian Journal, 2014
28. Non-carbonaceous nanostructured support materials for low temperature fuel cell electrocatalysts, Nano Science and Nano Technology An Indian Journal, 2014
29. Polyethersulfone/Poly(D,L-lactide) Blend Membranes: Preparation, Characterization, and Performance, Chemical Engineering & Technology (ISI), 2014
30. Preparation of Pt-Co nanoparticles by galvanostatic pulse electrochemical codeposition on in situ electrochemical reduced graphene nanoplates based carbon paper electrode for oxygen reduction reaction in proton exchange membrane fuel cell, Applied Surface Science (ISI), 2014
31. A rate-based model approach for the absorption of acid gases by aqueous solution of MDEA, using Aspen plus simulator plus simulator, Chemical Technology, 2015
32. Numerical simulation of Lithium-Titanium gas-solid fluidized beds with MFIX and assessing the effects of pressure, particle size and inlet gas velocity on its performance, Chemical Technology, 2015
33. Prediction of solid volume fraction and mean density distribution isograms in slurry flow in a pipe, using ASM model, Chemical Technology, 2015
34. Synthesis of oak gall tannin-immobilized hexagonal mesoporous silicate (OGT-HMS) as a new super adsorbent for the removal of anionic dye from aqueous

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solution, Desalination and Water Treatment (ISI), 2015

35. Oxygen Reduction Reaction Activity Improvement in Cu/PtPd Nanocatalyst Based on Core-Shell Structured through Electrochemical Synthesis on Porous Gas Diffusion Electrodes in Polymer Electrolyte Membrane Fuel Cell, Journal of Nano Research, 2015

Conference Papers Titles (presented in English):

1. Numerical Simulation of Fluid Flow over Submerged Objects, presented in U.K. in 1993
2. Numerical Simulation of Viscous Flow over Bluff- Bodies, presented in Iran in 1993
3. 3- D Computational Simulation of Fluid Flow over Cylindrical Objects, presented in U.K. in 1995
4. Numerical Simulation of a Heated Cylinder in Cross Flow, presented in U.K. in 1995
5. Numerical Prediction of Bulk Temperature Nusselt Number in Packed Beds, presented in U.K. in 1996.
6. An Investigation of Flow in Packed Bed Systems Using CFD, presented in Iran in 1996
7. Experimental Study of Flow in Packed Bed Systems Using Laser Doppler Anemometry, presented in Iran in 1997
8. Flow over Staggered and Squared- Staggered Type of Cylinders, presented in Iran in 2000
9. Comparison of Drag and Pressure Coefficients for a Single Cylinder using Fluent and FIDAP, presented in Iran in 2000
10. Design of Air- to- Air Thermosyphon Heat Exchangers for Energy Conversion in Industry, presented in Russia in 2002
11. Design of the Reactor and Selection of Catalyst for Ortho to Para Hydrogen conversion, presented in New Zealand in 2002
12. Optimization of Power Consumption, Mass Transfer Coefficient and Flow Regime in Gas-Liquid Dispersion System, presented in Spain in 2003
13. Adaptive neural fuzzy inference system to modeling of flux and fouling during ultrafiltration of skimmed milk, presented in Bulgaria in 2005
14. Soft computing and its application to modeling of skimmed milk ultrafiltration, presented in Germany in 2005
15. A New Approach to Crossflow Milk Ultrafiltration Modeling: Fuzzy Inference System (FIS), presented in Spain in 2005
16. The Effects of Geometrical Parameters on Heat Transfer and Pressure Drop in Plate Fin and Tube Heat Exchangers, presented in Spain in 2005
17. Three dimensional numerical simulation of turbulent flow in a mixing vessel, using standard $k-\epsilon$ and RNG- $k-\epsilon$ model and by applying a sliding mesh technique, presented in Iran in 2006
18. Study of Heat Transfer on Elliptic Parts in One and Two Row Arrays of Plate Fin

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- and Tube Heat Exchangers, a CFD Approach, presented in Iran in 2011
19. Numerical Investigation of Heat Transfer Characteristics in a Plate Heat Exchanger, presented in Iran in 2011
 20. Controlled Fabrication and Evaluation of α -Lactalbumin Nanoparticles for Drug Delivery and Food Science Application, presented in Iran in 2008
 21. Simulation of Natural Gas Sweetening Process Neural Network Approach, presented in Iran in 2008
 22. Prediction of water activity coefficient in TEG-Water system from small data using diffusion neural network, presented in Iran in 2008
 23. Simulation of Natural Gas Sweetening Process Neural Network Approach, presented in Iran in 2008
 24. Prediction of Sauter Diameter in Pulsed Sieved-Plate Extraction Column by Artificial Neural Network, presented in Iran in 2010
 25. Prediction of flow pattern and velocity distribution in pipe lines, using COMSOL Multiphysics simulator, presented in Iran in 2010
 26. PREPARATION OF NOVEL NANO-CATALYST Sr/S-ZrO₂ BY SOLVENT-FREE METHOD AND INVESTIGATION THE CATALYTIC ACTIVITY IN ESTERIFICATION REACTION, PRESENTED IN IRAN IN 2012
 27. COMPARISON BETWEEN THE ACTIVITY OF NANO-CATALYSTS OF AL-PROMOTED AND PURE SULFATED ZIRCONIA AND OPTIMIZATION OF CONDITION IN ESTERIFICATION OF OLEIC ACID, PRESENTED IN IRAN IN 2012
 28. In situ grown of pt-pd nanowires with excellent electrochemical performance as a facile route polymer electrolyte membrane fuel cell electrodes preparation, presented in Iran in 2013
 29. Microwave assisted the synthesis of ZnO and CuO promoted alumina for esterification reaction, 2014
 30. Synthesis of novel nano-catalyst of doped CaZrO₃ with titania by sol-gel method and assessment of its activity in esterification reaction, 2015

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