



Reza Alizadeh

Professor

College: Faculty of Chemical Engineering

Education

Degree	Graduated in	Major	University
BSc	1999	Petrochemical Engineering	Shiraz University
MSc	2002	Chemical Engineering	Amirkabir University of Technology
Ph.D	2007	Chemical Engineering	Amirkabir University of Technology

Employment Information	ployment Information					
Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade		
Sahand University Of Technology	Professor	Tenured	Full Time			

Work Experience

Journal Papers:

1- "Catalytic effect of zinc oxide on the reduction of barium sulfate by methane". R.Alizadeh, E. Jamshidi, H. Ale Ebrahim. Thermochimica Acta, Vol. 460,2007, p 44.

2- "Kinetic study of nickel oxide reduction by methane". R. Alizadeh, Esmail Jamshidi, Habib Ale ebrahim, Chemical engineering and technology, vol.30 (8), 2007, p1123.

3- "Transformation of methane to synthesis gas over metal oxides without using catalyst". R.Alizadeh,

E. Jamshidi, G. Zhang. Journal of Natural Gas chemistry, Vol. 18 No 2, 2009, p.124-130

4- "Modeling of catalyst effect on the reduction rate enhancement of barium sulfate by methane and

developing two environmentally friendly processes." R.Alizadeh, E. Jamshidi, H. Ale Ebrahim. A.A Ebrahimi, Iranian Journal of chemical Engineering(IAChE), Vol. 7, No 1, 2010

5- "Optimal Control Method of Exit Pollutants of Sulfur Recovery Unit in an Oil Refinery" L. Khazini, E. Fatehifar, R. Alizadeh, Iranian Chemical Engineering Journal (IAChE)Vol. 10 - No. 54 (2011) (In Persian)

6- " Application of Taguchi Method for Optimization of Amine- Based Tail Gas Treating Unit in Petroleum Refineries", L. Khazini, E. Fatehifar , B. Fouladpanjeh, R. Alizadeh, Energy Sources, Part A, 709–718, 2014,Volume 36, Issue

7- "Kinetic study of synthesis of titanium carbide by Methanothermal reduction of titanium dioxide". R.Alizadeh, O.Ostrovski, Iranian journal of materials sience & engineering(IJMSE), Vol. 8,Number 1, Autumn 2011

8- "Estimation and evaluation of new CO, CO2 and NOx emission factors for gas flares using pilot scale flare". A. Talebi, E. Fatehifar, R. Alizadeh, D. Kahforoushan, Energy Sources, Part A, 36:719–726, 2014
9- "Thermodynamic Equilibrium Modeling of Tri-Reforming of Methane" M. Abdollahifar, M. Haghighi, R. Alizadeh, Iranian Chemical Engineering Journal (IAChE) Vol. 11 No. 60 (2012) (In Persian)
10- "The study of the Performance of various reducing factors in the catalytic reduction on the sulfur dioxide and converting it into elemental sulfur", M. Kanani, R. Alizadeh, E. Fatehifar, Farayandno Scientific- Propative Monthly-March 2012- 35,36 Issue(In Persian)

11- "Fire retardants and mechanism of their performance in polymers and coatings- A review"., M.Salehi, R.Alizadeh, M. Mahdavian, Journal of Studies in Color World, 3(1392)/ 21-36(In Persian) 12- "Application of Finite Element Method for Modeling of Multi-tube Fixed Bed Catalytic reactors" P.Roohi, R.Alizadeh, E.Fatehifar, M.Salami, Published by Chemical Product and Process Modeling ,Volume 9, Issue 1, Pages 1–8, ISSN (Online) 1934-2659, ISSN (Print) 2194-6159, DOI: 10.1515/cppm-2013-0030, November 2013

13- "Using Dynamic Model for Determination of Heat Losses in Cold Weather from a Typical House in Tabriz Constructed by Lightweight Concrete Blocks", M. Darghahi, R.Alizadeh, Published by Energy efficiency journal;Vol.7, page: 609-626; 2014, DOI 10.1007/s12053-013-9243-5

14- "Preparation of Thin Membrane Layers of Polyamide-Polyether Block Copolymer (PEBA) on the Ceramic Nanocomposite Support for Separation of CO2 from CH4 and N2", Y.Bayat, A. Babaluo, R.Alizadeh, Journal of Separation Science and Engineering (JSSE Journal), Vol.4. No.1, page:. 69-75(In Persian)

15- "Simulation of gas absorption into string-of-beads liquid flow with chemical reaction", S. M. Hosseini, R. Alizadeh, E. Fatehifar, A. Alizadehdakhel, Heat and Mass Transfer journal Vol. 50 Pages:1393-1403 (2014)

16- "Kinetic study of the PVC/TiO2 nanocomposites photodegradation under accelerated UV and visible light exposure",S.GhaebiMehmandoust, R. Alizadeh, A. Babaluo, Published by Polymers for Advanced Technologies, (Polym. Adv. Technol.) 2014, Vol. 25, page: 799–8082014,DOI: 10.1002/pat.3298 17- "Synthesis and characterization of nanostructured CuO/CeO2catalysts via ultrasound assisted techniques used for selective oxidation of CO" A.Karimi, E. Fatehifar, R.Alizadeh, Iranian Journal of chemical Engineering(IAChE), Vol., No 1,2014

18-"Experimental Study and Modeling of Hydrogen Sulfide Absorption with Amine Solutions in a Wetted Wire Column", M.Ghasemzadeh, R. Alizadeh, E. Fatehifar, P.Roohi, M. Banihashemi, Journal of Separation Science and Engineering (JSSE Journal), Vol.7, No 1,2015 (In Persian)

19-"Thermodynamic study of transformation of methane to synthesis gas over metal oxides" P.Roohi, R.Alizadeh, E.Fatehifar, International Journal of Thermophysics(IJOT), Vol. 36 , 2015

20-"Steady State Modeling of Multi-Cylinder Dryers in Corrugating Paper Machine" S.ghodbanan, R.Alizadeh and Sirus shafiei, Drying Technology Vol. 33: p.1474–1490, 2015

21-"Effect of long time exposure on the chemical and physical properties of polyvinyl chloride/titanium dioxide nanocomposites" S.Mehmandoust, P.Sokhandani, M.Abdi, A.Babaluo, R.Alizadeh, Journal of Thermoplastic Composite Materials January Vol.29, 2016

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23-"Simulation and Optimization of Styrene Monomer Production Using Neural Network", M. Aghayarzadeh, R. Alizadeh, S. Shafiei, Iranian Journal of Chemical Engineering, Vol. 11, No. 1 (Winter), 2014, IAChE

24-"Analytical investigation of temperature changes by the forced convection in a porous bed with consideration of viscous dissipation", A.Karimi, R. Alizadeh, Tabriz Mechanic Research and Scientific Journal. Vol.46 No.2(summer), (In Persian)

25-"Simulation of hydrogen desorption from large metal hydride storages and investigation of efficiency enhancement by using metal fins", S.M.Hosseini, R.Alizadeh, H.Targholizadeh, Modares Mechanical Engineering,Vol.15,No.11,pp.63-72,2015(In Persian)

26-"An intelligent approach to design and optimization of M-Mn/H-ZSM-M:Ce,Cr,Fe,Ni) catalysts in conversion of methanol to propylene", N.Hadi, A.Niaei, SR.Nabavi, R.Alizadeh, M.N Shirazi,B. Izadkhah Journal of the Taiwan Institute of Chemical Engineers, Vol. 59,pp. 173-185, 2016

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28-" Modeling of Ethylbenzene Dehydrogenation Catalyst Deactivation on an Industrial Scale", A.Haghlesan, R.Alizadeh, E.Fatehifar, Petroleum Science and Technology Journal (PET), Vol. 34, Issue 6, pp. 499-504, 2016

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44- "Modeling and Optimization of Fast Degradation of Contaminated Soil with 2-Methylpropane-2-Thiol by Modified Fenton Process", P.roohi, E.Fatehifar, R.Alizadeh, Modares Civil Engineering Journal (M.C.E.J),Vol.17, No.4, October 2017

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46-"Sonosynthesis of VOx/MCM-41 Nanocatalyst Enhanced by various Metal Oxides (Mg, AL, Zr) for CO2-OxidativeDehydrogenation of Ethane to Ethylene", P.Taghavinezhad, M.Haghighi, R.Alizadeh. Microporous & Mesoporous Materials, Vol.261,(2018) 63-78

47- "Adsorption Modeling of CO2 in Fluidized Bed Reactor", S.Yaghoobi, R.Alizadeh, R.Zarghami, Chemical Engineering Research and Design, Vol.129,(2018) 111-121

48- "Durable and highly selective tungsten-substituted MFI metallosilicate catalysts for methanol to propylene process by designing a novel feed-supply technique", N.Hadi, A.Niaei, R.Alizadeh, Comptes Rendus Chimie Journal, Vol.21,(2018)

49- "Sonoprecipitation dispersion of ZnO nanoparticles over graphene oxide used in photocatalytic degradation of methylene blue in aqueous solution: Influence of irradiation time and power " M. Zarrabi, M.Haghighi, R.Alizadeh, Ultrasonics Sonochemistry, Vol.48, 2018, P. 370-382

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53-"Influence of aging temperature and Mg/Zr molar ratio on transformation of C2H6 to C2H4 over VOx catalyst supported on Mg–Zr nanocomposite ", P.Taghavinezhad, M.Haghighi, R.Alizadeh. Research on Chemical Intermediates, Vol.45,(2019) 1907-1927

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M.Pourgol, M.Pourghafari, R. Alizadeh, M. Kaleibar and M. Soleimani, Accepted by ASCEASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering.

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Etemadi, R. Alizadeh, M. Sirousazar, Vol. 17 No1,(2020). Iranian Journal of Chemical Engineering. 57- "A stochastic approach for predicting tortuosity in porous media via pore network modeling ",R. Nemati, J. R. Shahrouzi, R. Alizadeh, Computers and Geotechnics, Vol. 120(April 2020) 58- "Efficient photocatalytic degradation of furosemide by a novel sonoprecipited ZnO over ion exchanged clinoptilolite nanorods " Z. Heidari, R. Alizadeh, A. Ebadi, N. Oturan, M.A. Oturan, Separation and Purification Technology, Vol.242(2020),

59- "Enhanced heterogeneous catalytic ozonation of pharmaceutical pollutants using a novel nanostructure of iron-based mineral prepared via plasma technology: A comparative study ", R. Pelalak, R. Alizadeh, E. Ghareshabani, Journal of Hazardous Materials , Vol.392(2020)

60- "Degradation of sulfonamide antibiotics using ozone-based advanced oxidation process: Experimental, modeling, transformation mechanism and DFT study , R. Pelalak, R. Alizadeh, E. Ghareshabani, Zahra Heidari, Science of the Total Environment journal. Vol.392(2020)

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62- " The Influence of Natural Basil Seed Gum Coats on the Kinetics of Osmotic Dehydration of Apple Rings ",A. Etemadi, R. Alizadeh, M. Sirousazar, Food and Bioprocess Technology, Vol.13,(2020) 63- " Degradation of furosemide using photocatalytic ozonation in the presence of ZnO/ICLT nanocomposite particles: Experimental, modeling, optimization and mechanism evaluation", Z. Heidari, R. Alizadeh, A. Ebadia, R. Pelalakd, N. Oturan, M. Oturan, Journal of Molecular Liquids. 2020, Vol.319 64- " High-efficient hierarchical [B]-ZSM-5 catalyst by simultaneously using of CTAB surfactant and boron promoter for methanol to olefins reaction", F. Dalirian, M. Rostamizadeh and R.Alizadeh, Research on Chemical Intermediates 2021, Vol. 47

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72-"Hybrid Sonoprecipitation Fabrication of Magnetic ZnO-GO-Fe3O4 Nanophotocatalyst for Solar-Light-Driven Degradation of Dyes in Water ", M Zarrabi, M Haghighi, R Alizadeh, S Mahboob, Materials Research Bulletin, 2022, Vol.153

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74-" Modeling of carbon dioxide and hydrogen sulfide pollutants absorption in wetted-wire columns

with alkanolamines"A. Jasour, R. Alizadeh, H. Ahmadian, Chemical Product and Process Modeling, 2023, doi.org/10.1515/cppm-2022-0056

75-"Experimental study and Machine learning simulation of Pb (II) separation from aqueous solutions via a nanocomposite adsorbent", H. Abedpour, J Moghaddas, A.Sori, R. Alizadeh, Journal of the Taiwan Institute of Chemical Engineers, Vol. 147, pp. , 2023

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78-"Improvement of energy efficiency and heat recovery performance within the paper machine drying section", S.Ghodbanan, R. Alizadeh, S. Shafiei, J. Shahrouzi, Accepted by Journal of Computational & Applied Research in Mechanical Engineering (JCARME), doi.org/10.22061

79-" Modeling and CFD simulation of photocatalytic removal of tetracycline by ZnO/PbBiO2Cl nanocomposite catalyst ", H.Seyyedbagheri, R. Alizadeh, B. Mirzayi, M. Valibeknejad, Journal of Molecular Liquids, 2024, Vol.383

80- "Technical-economic analysis of chemical hydrolysis of microalgae for bioethanol production using SuperPro Designer", H. Shokrkar, E. Bahmani, R. Alizadeh, accepted for publication in Iranian Journal of Chemical Engineering (IJChE)

81-" Photocatalytic Degradation of Linezolid Antibiotic from Aqueous Solution by Magnetically Separable Nanoheterostructure Fe3O4/ MgAl2O4/BiOBr0.5Cl0.5 Synthesized Composite catalyst", E. Yaghinirad, R. Alizadeha, , A. Ebadi, D.Ekinci, Journal of Molecular Liquids, 2024, Vol.403

Subjects Taught

Teaching Experience:

Advanced Reaction Kinetics and Reactor Design Advanced Engineering mathematics Advanced Conduction heat transfer Advanced Fluid Mechanics Advanced Convection Heat Transfer Petroleum Engineering Heat transfer Heterogeneous Catalytic and Non-catalytic reaction Advanced Drying Technologies Advanced Adsorption Technology Fluid mechanics Thermodynamics