

Education



- PHD** Process Integration, UMIST, Manchester, UK, 1994-1997
MSc Process Integration, UMIST, Manchester, UK, 1992-1994
BSc Chemical Engineering, Tehran University, Iran, 1984-1988

Professor,

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Visiting Professor,

Department of Energy,
University of Politecnico di Milano
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Teaching Experience

- 1** Process Engineering
- 2** Process Integration
- 3** Unit Operation (I) & (II)
- 4** Pinch technology
- 5** Thermodynamics
- 6** Fluid Mechanics (I) & (II)
- 7** Power Plants
- 8** Oil Refinery Engineering/ Petrochemical Processes
- 9** Heat Transfer (I) & (II)
- 10** CHP (Cogeneration Heat and Power)
- 11** Energy Systems Analysis
- 12** Exergy Analysis
- 13** Energy Consumption Optimization in Process Industrials
- 14** Thermal Systems Design
- 15** Design of Energy Systems

Works Experience

1	Visiting Professor, University of Politecnico di Milano, Milano, Italy	2017 - 2018
2	Member of the Joint Scientific Audit Committee of Institutes Polymer & Petrochemicals / Materials & Energy / Chemistry & Chemical Engineering / Color Sciences IRAN	2017 - Present
3	Director of Energy & Environment Research Center (Niroo Research Institute)	2016 - Present
4	Board of Trustees in The Research Institute of Petroleum Industry (RIPI)	2014 - Present
5	Dean of Faculty of Mechanical Engineering K.N. Toosi University of Technology	2013
6	Member of Board, Center of Energy Excellency, University of Tehran	2013 - Present
7	Member of the Council for the Promotion of Energy Technologies of the Ministry of Petroleum	2012 - Present
8	Director of Iranian Hydrogen & Fuel Cell Association	2012 - Present
9	Member of the Government Working Group on Optimization the Transportation Fleet of the Iran	2011 - Present
10	Adjunct Professor, University of Tehran	2011 - 2012
11	Deputy of Research and Technology Faculty of Mechanics, K.N. Toosi University of Technology	2011 - 2013
12	Head of the Specialized Energy Committee of the National Iranian Oil Products Distribution Company	2010 - Present
13	Member of Iran's Top Energy Household Appliances Center of Iran	2009 - Present
14	Head of Energy Integration Center, K.N. Toosi University of Technology	2009 - Present
15	Member of the Supreme Council of Research of the National Iranian Oil Products Distribution Company	2009 - 2011
16	Consultant of Head of Iran Fuel Conservation Company	2007
17	Head of Chemical Engineering Department in Azad University Science-Research Unit	2004 - 2014
18	Education Deputy in Mechanical Engineering Faculty	2004 - 2005 2007 - 2009
19	Director of M.Sc. Joint Program with Kingdom University and Manchester University of UK	2004 - 2009
20	Managing Board of Iran Energy Association	2004 - 2009
21	Head of Energy Systems Engineering Department K.N. Toosi University of Technology	2003 - 2009
22	Consultant Power Plant Optimization in Iran Power Stations	2003
23	Consultant Oil and Energy Ministries Company's in Iran	2001 - 2006
24	Head of the Institute for the Development of the Chemical Industry of Iran Academic Center for Education, Culture and Research	2001 - 2003
25	Assistant, Associate, Full Professor, K.N. Toosi University of Technology, Tehran, Iran	2000 - Present
26	Research Consultant in Ministry of Industry (Innovation and Energy Saving)	2000 - 2002
27	Member of Editorial Board and Managing Direct of Iranian Journal Chemistry and Chemical Engineering	2000 - 2002
28	Supervisor of Energy Efficiency Office of the Ministry of Energy	1999 - 2001
29	Research Deputy in Iranian Research and Developing Center for Chemical Industry	1997 - 2000

Awards

- 1 TOP 1% Scientist in world 2017 Engineering field (Thomson Reuters)
- 2 Best lecturer in K.N. Toosi University of Technology, 2010
- 3 Best PhD thesis in Mechanical Engineering in Iran, 2009
- 4 Best M.SC. Thesis in Mechanical Engineering in Iran, 2009
- 5 Best researcher in K.N. Toosi University of Technology, 2009

Research Activities and Projects (Selected)

- 1 Comprehensive planning and established management of production and consumption of oil until 2034
- 2 Effect of using heater without chimney on quality of room conditions
- 3 Optimization of strategy development and technical and economical study on electrical hybrid car production
- 4 Optimization and analyzing of fuel consumption in selected villages of Iran
- 5 Debottlenecking and capacity improvement of 4 and 5 phase of South Pars based on heat transfer improvement techniques
- 6 Simulation and design of desalination system based of heat recovery from Persian Gulf gas turbines to improve the efficiency
- 7 Consultant in review on energy management structure in Iran
- 8 Energy saving in Equipments (kettle, boilers,...)
- 9 Water management in food industry
- 10 Modify Solvay process
- 11 Energy saving in sugar industry
- 12 Consultant of Production of Strontium and Barium carbonate/ Paint industry/ Purification of Phosphoric acid/ Pilot plant of H₂O₂/ Purification of salt/ Production of Potassium compounds
- 13 Developing software about thermal cracking and heat exchanger design
- 14 HD desalination pilot plant
- 15 Khuzestan Province Natural gas demand model development by 2026
- 16 Three dimensional Gas Refinery Model for phase 2-3 South Pars gas reserve
- 17 Energy saving in Oil & Gas Industry (Gas refinery and petrochemical Industry)

Research Interests

Energy and Water

Energy / Energy Engineering / Energy Conversion / Energy Management / Energy Saving / Energy Conservation / Energy Modeling / Energy Efficiency / Energy Utilization / Water Purification Technologies / Desalination / Heat Exchangers / Process Modification / Total Site and Cogeneration / Heat, Carbon and Water Pinch / Electricity / Network / Refrigeration & Air Conditioning / Thermoeconomic / Exergy Analysis / Nuclear Power Plants / Power Plants / Oil and Gas / LNG / NGL

Environment and Renewable Energy

Wind Power / Water Power / Biomass / Solar Energy / Fuel Cells / Solar Radiation / Power Generation Emission / CO₂ Management / CO₂ Capture / CO₂ Utilization / Waste Heat Recovery / Gasification / Bioenergy

Books (In Persian)

- 1 Application of Optimization in Engineering Problem, M. Amidpour, E. Mahdavi, M. Mahdavi, K.N. Toosi University of Technology, 2013
- 2 Introduction to Constractural Theory, K. N. Toosi University of Technology, M. Amidpour, M. Mehrgoo, 2012
- 3 The Theory and Issues of Thermodynamics for Engineers, Gh. Salehi, H. Khosh Nazar, M. Amidpour, Taymaz, 2011
- 4 Hydrogen Integration in Oil Refineries, M. Amidpour, M.R. Jafary Nasr, R. Salary, K.N. Toosi University of Technology 2011
- 5 Productivity in Research Center (University of Tehran, Management Department), M. Amidpour, M.R. Jafary Nasr, E. Mahdavi, K.N. Toosi University of Technology, 2011
- 6 Clean development mechanism in China, World Bank, M. Amidpour, M. Moradi, IFCO, 2010
- 7 Exergy Analysis, M. Amidpour, A. Sajadi, K.N. Toosi University of Technology, 2009
- 8 Engineering Mathematics, M. Amidpour, E. Mahdavi, M.A.A. Zeinali Danalu, Academic Center for Education, Culture and Research, 2009
- 9 Pinch Technology, M. Amidpour, M. Gougol, Academic Center for Education, Culture and Research, 2002

Conducted Thesis

PHD Thesis (Selected)

1	Development of Structure Improvement Methods for Hybrid Cogeneration Systems of Power, Heat and Desalination
2	Modeling, Design and Optimization of Cogeneration Systems by Using the Constructal Theory
3	System Optimization of Co-Production of Heat, Power and FT Fuel via IGCC with Coal Gasification
4	Mixed Material Construction in HEN Pinch Method
5	Exergy and Pinch Analysis in Cryogenic Processes
6	Optimal Refrigeration System in Petrochemical Industry
7	Entropy Generation and Driving Force Relation
8	Modelling and Optimization HD Desalination System
9	Optimization of Distillation Sequence by Pinch & Exergy
10	Optimization of Desalination Configuration with Turbine Cycle (MED & RO)
11	Application Constructural Theory in Multi Stream Exchanger

M.Sc. (Selected from 200 Thesis)

1	Energy Saving in Bandar Abbas Power Station
2	Dealing Piping Constraints in Pinch Technology
3	Setting Boundaries in Process Integration
4	Structural Changes in Process Integration
5	Developing Pinch Technology Software by Visual C++.
6	Mixed Material Construction in HEN.
7	Match Constraints in HEN Design
8	Energy Saving Using Heat Pump in Process Context
9	Drink Water Production with Cleanest Energy
10	Evaporator Optimization for Sugar Industry.
11	Decomposition in Waste Minimization
12	Process Simulation of Special Solvent in Refineries
13	Thermodynamic and Hydraulic Simulation and Modeling of Distillation Columns Based on Entropy Generation and Exergy Analysis.
14	Exergeoconimc Modeling and Optimization of Water – Ethanol Distillation Column.

More than **100** B.Sc. Design Project Conducted

Journal Papers

- 1 M. Salimi, H.A. Reyhani, M. Amidpour, *Thermodynamic and economic optimization of multi-effect desalination unit integrated with utility steam network*, Desalination, 2018 (DOI: 10.1016/j.desal.2017.11.013)
- 2 M.S. Niasar, M. Amidpour, *Conceptual design and exergy analysis of an integrated structure of natural gas liquefaction and production of liquid fuels from natural gas using Fischer-Tropsch synthesis*, Cryogenics, 2018 (DOI: 10.1016/j.cryogenics.2017.11.002)
- 3 A. Baniassadi, M. Momen, M. Amidpour, O. Pourali, *Modeling and design of solar heat integration in process industries with heat storage*, Journal of Cleaner Production, 2018 (DOI: 10.1016/j.jclepro.2017.09.183)
- 4 M.S. Kachoei, M. Salimi, M. Amidpour, *The long-term scenario and greenhouse gas effects cost-benefit analysis of Iran's electricity sector*, Energy, 2017 (DOI: 10.1016/j.energy.2017.11.049)
- 5 B. Ghorbani, M. Mehrpooya, M.H. Hamed, M. Amidpour, *Exergoeconomic analysis of integrated natural gas liquids (NGL) and liquefied natural gas (LNG) processes*, Applied Thermal Engineering, 2017 (DOI: 10.1016/j.applthermaleng.2016.11.142)
- 6 H. Rostamzadeh, M. Ebadollahi, H. Ghaebi, M. Amidpour, R. Kheiri, *Energy and Exergy Analysis of Novel Combined Cooling and Power (CCP) Cycles*, Applied Thermal Engineering, 2017 (DOI: 10.1016/j.applthermaleng.2017.06.011)
- 7 B Ghorbani, MH Hamed, M Amidpour, Reza Shirmohammadi, *Implementing absorption refrigeration cycle in lieu of DMR and C3MR cycles in the integrated NGL, LNG and NRU unit*, International Journal of Refrigeration, 2017 (DOI: 10.1016/j.ijrefrig.2017.02.030)
- 8 M. Salimi, M. Amidpour, *Modeling, simulation, parametric study and economic assessment of reciprocating internal combustion engine integrated with multi-effect desalination unit*, Energy Conversion and Management, 2017 (DOI: 10.1016/j.enconman.2017.01.080)
- 9 M. Salimi, M. Amidpour, *Investigating the integration of desalination units into cogeneration systems utilizing R-curve tool*, Desalination, 2017 (DOI: 10.1016/j.desal.2017.06.008)
- 10 M. Mehrgoo, M. Amidpour, *Configurations and pressure levels optimization of heat recovery steam generator using the genetic algorithm method based on the constructal design*, Applied Thermal Engineering, 2017 (DOI: 10.1016/j.applthermaleng.2017.04.144)
- 11 M. Mehrgoo, M. Amidpour, *Constructal design and optimization of a dual pressure heat recovery steam generator*, Energy, 2017 (DOI: 10.1016/j.energy.2017.02.046)
- 12 H. Ghaebi, M. Ebadollahi, H. Rostamzadeh, M. Amidpour, F. Rostamian, H. Abioghi, Energy analysis and performance Evaluation of a novel multi evaporator Ejector Refrigeration Cycle (ERC), Journal of Energy Management and Technology, 2017 (DOI: 10.22109/JEMT.2017.82561.1006)

- 13 M. Shirinbaksh, M. Amidpour, Design and optimization of solar-assisted conveyer-belt dryer for biomass, Energy Equipment and Systems, 2017 (DOI: 10.22059/EES.2017.25716)
- 14 M. Shariati Niasar, M. Amidpour, B. Ghorbani, M.J. Rahimi, M. Mehrpooya, M.H. Hamedi, Superstructure of Cogeneration of Power, Heating, Cooling and Liquid Fuels Using Gasification of Feedstock with Primary Material of Coal for Employing in LNG Process, Gas Processing Journal, 2017 (DOI: 10.22108/GPJ.2017.100034.1000)
- 15 M. Salimi, M. Amidpour, Total site cogeneration and desalination system integration assessment using R-curve, Moddares, 2017
- 16 A. Baniassadi, B. Sajadi, M. Amidpour, N. Noori, *Economic optimization of PCM and insulation layer thickness in residential buildings*, Sustainable Energy Technologies and Assessments, 2016 (DOI: 10.1016/j.seta.2016.01.008)
- 17 B. Ghorbani, M.H. Hamedi, M. Amidpour, M. Mehrpooya, *Cascade refrigeration systems in integrated cryogenic natural gas process (natural gas liquids (NGL), liquefied natural gas (LNG) and nitrogen rejection unit (NRU))*, Energy, 2016 (DOI: 10.1016/j.energy.2016.09.005)
- 18 B. Ghorbani, M.H. Hamedi, M. Amidpour, *Development and optimization of an integrated process configuration for natural gas liquefaction (LNG) and natural gas liquids (NGL) recovery with a nitrogen rejection unit (NRU)*, Journal of Natural Gas Science and Engineering, 2016 (DOI: 10.1016/j.jngse.2016.07.037)
- 19 H.A. Reyhani, M. Meratizaman, A. Ebrahimi, O. Pourali, M. Amidpour, *Thermodynamic and economic optimization of SOFC-GT and its cogeneration opportunities using generated syngas from heavy fuel oil gasification*, Energy, 2016 (DOI: 10.1016/j.energy.2016.04.010)
- 20 M.P. Rad, M.H. Khoshgoftar Manesh, M.A. Rosen, M. Amidpour, M.H. Hamedi, *New procedure for design and exergoeconomic optimization of site utility system considering reliability*, Applied Thermal Engineering, 2016 (DOI: 10.1016/j.applthermaleng.2015.10.091)
- 21 K. Hasanzadeh Lashkajani, B. Ghorbani, M. Amidpour, M.H. Hamedi, *Superstructure optimization of the olefin separation system by harmony search and genetic algorithms*, Energy, 2016 (DOI: 10.1016/j.energy.2016.01.045)
- 22 M. PouyanRad, M.H. Khoshgoftar Manesh, M.A. Rosen, M. Amidpour, M.H. Hamedi, *New procedure for design and exergoeconomic optimization of site utility system considering reliability*, Applied Thermal Engineering, 2016 (DOI: 10.1016/j.applthermaleng.2015.10.091)
- 23 M. Shariati, M. Amidpour, Development of an Integrated Structure of CHP and Heavy Hydrocarbons Liquids Using Fischer-Tropsch Synthesis, Gas Processing, 2016 (DOI: 10.22108/GPJ.2016.21587)
- 24 A.K. Akbari, M. Gholinezhad, O. Pourali, M. Amidpour, Two-Objective Optimization of Heat Recovery and Desalination Water Production from a Once-through Cooling System, Sharif: Mechanical Engineering, 2016
- 25 A.M. Sotoodeh, M. Amidpour, M. Ghazi, Hydrulic and thermal modeling and optimization of rectangular finned multi stream plate-fin heat exchangers by genetic algorithm, Modares Mechanical Engineering, 2016
- 26 S. Kafashian, G.R. Salehi, M. Amidpour, Area Energy and Throughput Targeting in Debottlenecking of Heat Exchanger Networks with Decomposition Approach, Gas Processing Journal, 2016 (DOI: 10.22108/GPJ.2016.20408)

- 27 M. Amidpour, M.H. Hamedi, M. Mafi, B. Ghorbani, R. Shirmohammadi, M. Salimi, *Sensitivity analysis, economic optimization, and configuration design of mixed refrigerant cycles by NLP techniques*, Journal of Natural Gas Science and Engineering, 2015 (DOI: 10.1016/j.jngse.2015.03.008)
- 28 A. Ebrahimi, M. Meratizaman, H.A. Reyhani, O. Pourali, M. Amidpour, *Energetic, exergetic and economic assessment of oxygen production from two columns cryogenic air separation unit*, Energy, 2015 (DOI: 10.1016/j.energy.2015.06.083)
- 29 A. Baniassadi, M. Momen, M. Shirinbakhsh, M. Amidpour, *Application of R-curve analysis in evaluating the effect of integrating renewable energies in cogeneration systems*, Applied thermal engineering, 2015 (DOI: 10.1016/j.applthermaleng.2015.09.101)
- 30 M. Meratizaman, S. Monadizadeh, A. Ebrahimi, H. Akbarpour, M. Amidpour, *Scenario analysis of gasification process application in electrical energy-freshwater generation from heavy fuel oil, thermodynamic, economic and environmental assessment*, International Journal of Hydrogen Energy, 2015 (DOI: 10.1016/j.ijhydene.2014.12.072)
- 31 G. Karami, M. Amidpour, B.H. Sheibani, G.R. Salehi, *Distillation column controllability analysis through heat pump integration*, Chemical Engineering and Processing: Process Intensification, 2015 (DOI: 10.1016/j.cep.2015.08.005)
- 32 M. Meratizaman, S. Monadizadeh, O. Pourali, M. Amidpour, *High efficient-low emission power production from low BTU gas extracted from heavy fuel oil gasification, introduction of IGCC-SOFC process*, Journal of Natural Gas Science and Engineering, 2015 (DOI: 10.1016/j.jngse.2015.01.023)
- 33 M. Kamalinejad, M. Amidpour, S.M. Mousavi Naeynian, *Thermodynamic design of a cascade refrigeration system of liquefied natural gas by applying mixed integer non-linear programming*, Chinese Journal of Chemical Engineering, 2015 (DOI: 10.1016/j.cjche.2014.05.023)
- 34 N. Niroomand, M. Zamen, M. Amidpour, *Theoretical investigation of using a direct contact dehumidifier in humidification–dehumidification desalination unit based on an open air cycle*, Desalination and Water Treatment, 2015 (DOI: 10.1080/19443994.2014.880157)
- 35 A. Baniassadi, M. Momen, M. Amidpour, *A new method for optimization of Solar Heat Integration and solar fraction targeting in low temperature process industries*, Energy, 2015 (DOI: 10.1016/j.energy.2015.06.128)
- 36 M. Meratizaman, S. Monadizadeh, M.T. Sardash, M. Amidpour, *Techno economic and environmental assessment of using gasification process in order to mitigate the emission in the available steam power cycle*, Energy, 2015 (DOI: 10.1016/j.energy.2015.01.112)
- 37 M. Zamen, M. Amidpour, N. Rezakhani, *Theoretical and experimental investigation of humidification process in supersaturated state*, Desalination, 2015 (DOI: 10.1016/j.desal.2015.05.004)
- 38 S. Khadivi, M.A. Moradi, *Cost-benefit analysis of energy saving strategies adopted by the commercial sector in Tehran*, Environmental Progress & Sustainable Energy, 2015
- 39 A.F. Sotoodeh, M. Amidpour, M. Ghazi, *Developing of constructal theory concept for plate-fin heat exchanger modelling, design and optimization*, International Journal of Exergy, 2015 (DOI: 10.1504/IJEX.2015.072054)

- 40 M. Ghazi, M. Amidpour, M. Abbaspour, H. Farzaneh, *Developing of constructal theory concept to the total site cogeneration heat and power retrofit*, International Journal of Exergy, 2015
(DOI: 10.1504/IJEX.2015.069991)
- 41 M.R. Firozjaei, M. Bazargan, M. Amidpour, *Evaluation of a low-cost solar cooling system for hot and humid regions in Iran*, Science and Technology for the Built Environment, 2015
(DOI: 10.1080/23744731.2015.1012986)
- 42 H. Janalizadeh, M.H. Khoshgoftar Manesh, M. Amidpour, *Exergoeconomic and exergoenvironmental evaluation of Integration of desalinations with a total site utility system*, Clean Technologies and Environmental Policy, 2015 (DOI: 10.1007/s10098-014-0765-0)
- 43 M. Ghazi, M. Amidpour, M. Abbaspour, H. Farzaneh, Constructal Theory Application for Cogeneration Heat and Power Total Site Retrofit., Modares Mechanical Engineering, 2015
- 44 M.A. Ramezani, M. Amidpour, M. Najafi, M. Abbaspour, A Study on Performance of Solid Oxide Fuel Cell-Stirling Engine Cycle Combined System-Part I: SOFC Simulation by Programming in Matlab and Modeling in Hysys, Gas Processing, 2015 (DOI: 10.22108/GPJ.2015.20406)
- 45 A.M. Sotoodeh, M. Amidpour, M. Ghazi, Modelling, Design and Analysis of Plate-Fin Heat Exchanger in Constant Volume, Constant Heat Transfer Area and Constant Pressure Drop to Obtain cold stream outlet terminal temperature in a plate fin heat exchanger (PFHE) with constant volume and heat transfer area for a specified maximum pressure drop, Modarres Mechanical Engineering, 2015
- 46 M. Zamen, S.M. Soufari, S.A. Vahdat, M. Amidpour, M.A. Zeinali, H. Izanloo, H. Aghababaei, *Experimental investigation of a two-stage solar humidification–dehumidification desalination process*, Desalination, 2014 (DOI: 10.1016/j.desal.2013.10.018)
- 47 S. Rahimi, M. Meratizaman, S. Monadizadeh, M. Amidpour, *Techno-economic analysis of wind turbine–PEM (polymer electrolyte membrane) fuel cell hybrid system in standalone area*, Energy, 2014
(DOI: 10.1016/j.energy.2014.01.072)
- 48 M.H.K. Manesh, P. Navid, M. Baghestani, S.K. Abadi, *Exergoeconomic and exergoenvironmental evaluation of the coupling of a gas fired steam power plant with a total site utility system*, Energy Conversion and Management, 2014 (DOI: 10.1016/j.energy.2014.01.072)
- 49 R. Soltani, P.M. Keleshtery, M. Vahdati, M.H. Khoshgoftar manesh, M.A. Rosen, M. Amidpour, *Multi-objective optimization of a solar-hybrid cogeneration cycle: application to CGAM problem*, Energy Conversion and Management, 2014 (DOI: 10.1016/j.enconman.2014.02.013)
- 50 B. Ghorbani, M. Mafi, R. Shirmohammadi, M.H. Hamed, M. Amidpour, *Optimization of operation parameters of refrigeration cycle using particle swarm and NLP techniques*, Journal of Natural Gas Science and Engineering, 2014 (DOI: 10.1016/j.jngse.2014.10.007)
- 51 B. Ghorbani, M. Ziabasharagh, M. Amidpour, *A hybrid artificial neural network and genetic algorithm for predicting viscosity of Iranian crude oils*, Journal of Natural Gas Science and Engineering, 2014
(DOI: 10.1016/j.jngse.2014.03.011)
- 52 H. Golchoobian, M.H. Taheri, M. Amidpour, O. Pourali, *Theoretical and Experimental Study of a Novel Film Evaporation Cooling System*, Progress in Sustainable Energy Technologies, SPRINGER, 2014
(DOI: 10.1007/978-3-319-07977-6_36)

- 53 H. Golchoobian, A. Behbahaninia, M. Amidpour, O. Pourali, *Dynamic Exergy Analysis of a Solar Ejector Refrigeration System with Hot Water Storage Tank*, Progress in Sustainable Energy Technologies: Generating Renewable Energy, SPRINGER, 2014 (DOI: 10.1007/978-3-319-07896-0_17)
- 54 M. Meratizaman, S. Monadizadeh, M. Amidpour, *Techno-economic assessment of high efficient energy production (SOFC-GT) for residential application from natural gas*, Journal of Natural Gas Science and Engineering, 2014 (DOI: 10.1016/j.jngse.2014.07.033)
- 55 M. Meratizaman, S. Monadizadeh, M. Amidpour, *Introduction of an efficient small-scale freshwater-power generation cycle (SOFC-GT-MED), simulation, parametric study and economic assessment*, Desalination, 2014 (DOI: 10.1016/j.desal.2014.07.023)
- 56 M. Meratizaman, S. Monadizadeh, M. Amidpour, *Simulation, economic and environmental evaluations of green solar parking (refueling station) for fuel cell vehicle*, International Journal of Hydrogen Energy, 2014 (DOI: 10.1016/j.ijhydene.2013.11.094)
- 57 M.H. Khoshgoftar Manesh, H. Janalizadeh, A.M. Blanco Marigorta, M. Amidpour, M.H. Hamedi, *Optimal design of integrated total site utility–multi-stage flash desalination plant*, Desalination and Water Treatment, 2014 (DOI: 10.1080/19443994.2013.795876)
- 58 H. Salarian, B. Ghorbani, M. Amidpour, G. Salehi, *Performance study on the dehumidifier of a packed bed liquid desiccant system*, Scientia Iranica, 2014
- 59 S.K. Abadi, M.H. Khoshgoftar Manesh, M.A. Rosen, M. Amidpour, M.H. Hamedi, *Integration of a gas fired steam power plant with a total site utility using a new cogeneration targeting procedure*, Chinese Journal of Chemical Engineering, 2014 (DOI: 10.1016/S1004-9541(14)60054-9)
- 60 H. Sahraie, A. Ghaffari, M. Amidpour, *Adaptive Neuro-Fuzzy Inference System (ANFIS) Approach to Evaluate the Debutanizer Top Product*, International Journal of Engineering and Applied Sciences, 2014
- 61 M. Mafi, B. Ghorbani, G.R. Salehi, M. Amidpour, S.M. Mousavi Nayenian, *he Mathematical Method and Thermodynamic Approaches to Design Multi-Component Refrigeration used in Cryogenic Process Part II: Optimal Arrangement*, Gas Process Journal, 2014
- 62 M. Kamalinejad, M. Amidpour, S.M. Mousavi Naeynian, *Optimal Synthesis of a Cascade Refrigeration System of LNG Through MINLP Model for Pure Refrigerant Cycles*, Gas Processing Journal, 2014
- 63 M.R. Jafari Nasr, M. Amidpour, H. Khodaei, *An Optimization approach to refinery steam management with consideration of CO₂ emission*, Journal of Petroleum Science and Technology, 2014
- 64 L.G. Farshi, S.M.S. Mahmoudi, M.A. Rosen, M. Yari, M. Amidpour, *Exergoeconomic analysis of double effect absorption refrigeration systems*, Energy Conversion and Management, 2013 (DOI: 10.1016/j.enconman.2012.07.019)
- 65 M.H. Khoshgoftar Manesh, H. Ghalami, M. Amidpour, M.H. Hamedi, *Optimal coupling of site utility steam network with MED-RO desalination through total site analysis and exergoeconomic optimization*, Desalination, 2013 (DOI: 10.1016/j.desal.2013.01.022)
- 66 M.H. Khoshfotar Manesh, P. Navid, A.M. Blanco Marigorta, M. Amidpour, M.H. Hamedi, *New procedure for optimal design and evaluation of cogeneration system based on advanced exergoeconomic and exergoenvironmental analyses*, Energy, 2013 (DOI: 10.1016/j.energy.2013.06.017)

- 69 H. Mahabadipour, H. Ghaebi, *Development and comparison of two expander cycles used in refrigeration system of olefin plant based on exergy analysis*, Applied Thermal Engineering, 2013 (DOI: 10.1016/j.applthermaleng.2012.06.050)
- 70 M.H. Khoshgoftar Manesh, S.K. Abadi, M. Amidpour, M.H. Hamedi, *A new targeting method for estimation of cogeneration potential and total annualized cost in process industries*, Chemical Engineering Research and Design, 2013 (DOI: 10.1016/j.cherd.2012.12.002)
- 71 M.H. Khoshgoftar Manesh, M. Amidpour, S.K. Abadi, M.H. Hamedi, *A new cogeneration targeting procedure for total site utility system*, Applied Thermal Engineering, 2013 (DOI: 10.1016/j.applthermaleng.2013.01.043)
- 72 A. Esmaeli, M. Keshavarz, S.E. Shakib, M. Amidpour, *Applying different optimization approaches to achieve optimal configuration of a dual pressure heat recovery steam generator*, International journal of energy research, 2013 (DOI: 10.1002/er.2944)
- 73 M.H. Khoshgoftar Manesh, P. Navid, M. Amidpour, M.H. Hamedi, *New procedure for optimal design of cogeneration system with considering environmental impacts and total cost*, Clean Technologies and Environmental Policy, 2013 (DOI: 10.1007/s10098-012-0576-0)
- 74 M. Zamen, M. Amidpour, M.R. Firoozjaei, *A novel integrated system for fresh water production in greenhouse: Dynamic simulation*, Desalination, 2013 (DOI: 10.1016/j.desal.2013.04.024)
- 75 N. Niroomand, M. Amidpour, *New combination of solar chimney for power generation and seawater desalination*, Desalination and Water Treatment, 2013 (DOI: 10.1080/19443994.2013.778216)
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- 4 Role of pilot plants in R&D (Sharif University)
- 5 Productivity in Research Center (University of Tehran, Management Department)
- 6 Over twenty presentation in International Conferences in all around world