

CURRICULUM VITAE



MASOUD TAGHAVI

Home Address:

3rd floor, Masoud Building, Opposite Golsar Hotel, RadioDarya Ave., Chalus, Mazandaran, Iran.
P.O. Box: 4661874164

Personal Details:

First Name: Masoud

Last Name: Taghavi

Date of Birth: Sep 21, 1988

Place of Birth: Chalus, Mazandaran, Iran

Marital Status: Single

Nationality: Iranian

Citizenship: Iranian Citizen

Cell Phone: (0098) 9111912666

Education:

- **Associate Degree**, Auto Mechanical, Technical and Vocational University (TVU), Faculty of Babol (Imam Sadegh), Iran, 2005 - 2008, G.P.A.: 12.72 / 20
- **B.Sc.**, Mechanical Engineering (Automotive Mechanical Technology Engineering), IAU, Noshahr Branch, Iran, 2010 - 2012, G.P.A.: 15.39 / 20
- **B.Sc.**, Mechanical Engineering (HVAC Technology Engineering), IAU, Noshahr Branch, Iran, 2012 - 2013, G.P.A.: 16.76 / 20
- **M.Sc.**, Mechanical Engineering (Energy Conversion), IAU, Noshahr Branch, Iran, 2015 - 2017, G.P.A.: 18.35 / 20
Title of Thesis: Modeling and Simulation of Phase Change Material Using in Building Energy Storage
- **Ph.D.**, Mechanical Engineering (Energy Conversion), IAU, Nour Branch, Iran, 2018 - Continues (In the dissertation defense stage)
Title of Thesis: Development of a novel method of producing liquid hydrogen using compressed air stored and renewable energies

Supervisor: Associate Professor, Dr. Hesamoddin Salarian

<https://scholar.google.com/citations?hl=en&user=DjwR6PkAAAAJ>

Advisor: Assistant Professor, Dr. Bahram Ghorbani

<https://scholar.google.com/citations?user=1kpG7d0AAAAJ&hl=en>

Google Scholar:<https://scholar.google.com/citations?user=ior8B-8AAAAJ&hl=en>

Citation indices	All	Since 2016
Citations	20	17
h-index	3	3
i10-index	1	0

Languages:

<i>Persian</i>	<i>Main Language</i>	<i>(Native Tongue)</i>
<i>English</i>	<i>Reading, Speaking, Writing, Listening</i>	<i>(Fluent)</i>
<i>Turkish</i>	<i>Reading, Speaking, Writing, Listening</i>	<i>(Preliminary)</i>

Research Interests:

Renewable and sustainable energies
Save and convert energy
Process integration
Energy efficiency and optimization
Building mechanical engineering (HVAC)

Memberships:

- *Member of IRCEO (Iran Construction Engineering Organization), Membership ID: 12-4-1-024873, 2013 - Present*
- *Member of Young Researchers Club of Elites (IAU), Membership ID: 9214399006, 2012 - Present*
- *Member of the International Advisory Board of International Conference on Fluid Dynamics and Thermodynamics Technologies (FDTT) 2014, Antalya, Turkey, 2014*
- *Member of Editorial Board and Organization Committee of Local Conference held at IAU, Noshahr Branch, Noshahr, Iran, 2013 - 2015*
- *Member of the Chalus City Engineering Association, Membership ID: 93400877, 2013 - Present*
- *Member of Organization Committee in 1st Line Follower Robots Competition held at IAU, Noshahr Branch, Noshahr, Iran, 2012*
- *Member of Iranian Society of Heating, Refrigeration and Air Conditioning Engineers (IRSHRAE), Membership ID: 933013, 2013 - Present*
- *Member of Iranian Society of Mechanical Engineers (ISME), Membership ID: 13411, 2013 - Present*
- *Member of American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE), Membership ID: 8252382, 2013 - Present*
- *Member of Iran Energy Association (IEA), Membership ID:9430184, 2015 - Present*

Book Published:**(In Persian)**

- ***Fundamental Mechanics of Fluids (Iain G. Currie)***
 Translated and written by: Morteza Mohammadi, **Masoud Taghavi**
 Publications: Aylar, Tehran, Iran; The First Edition: 2020
 ISSN: 9786001981418

Computer Skills:

Soft Ware, Hard Ware, Internet, Microsoft Office, Auto CAD
Aspen HYSYS, MATLAB, PVsyst, Carrier, Design Builder, EES

Honors and Awards:

- **"Top Lecturer"** in Technical and Vocational University (TVU), Faculty of Noshahr, 2021
- **"Top Researcher"** (Among the lecturers) in Technical and Vocational University (TVU), Faculty of Noshahr, 2020
- **"Receiving a letter of appreciation"** from the Dean of Technical and Vocational University (TVU), Faculty of Noshahr for setting up workshops and laboratories in the Mechanical Engineering Department, 2019
- **"Top Researcher"** (Among the Ph.D. students) in IAU, Nour Branch, 2019
- **"Top Researcher"** (Among the Ph.D. students) in IAU, Nour Branch, 2018
- **"Accepted quota of brilliant talents"** (without exam) Ph.D. degree in Mechanical Engineering - Energy Conversion, 2018
- **"Top Engineer"** of Chalous city (Mazandaran province, Iran), by the Iran Construction Engineering Organization, 2017
- **"Acceptance of the idea"** of "automatic and fixed electric jack on the body of passenger cars" at the Tooska National Festival, Iran, 2017
- **"Second rank"** in M.Sc. Mechanical Engineering - Energy Conversion in IAU, Noshahr Branch, 2015

Teaching Experiences:

- | | | |
|----------------|--|--|
| 2013 - Present | • <i>Mechanical Facilities (HVAC)</i> | IAU, Noshahr Branch, Iran

www.iauns.ac.ir

Teaching ID:
303539406649502 |
| | • <i>Managing energy efficiency in facilities</i> | |
| | • <i>Heating and refrigeration equipment</i> | |
| | • <i>Facility controls</i> | |
| | • <i>Bearing and lubrication mechanism</i> | |
| | • <i>Technical and specialized drawing</i> | |
| | • <i>Technical and specialized calculations</i> | |
| | • <i>Chassis, body and workshop technology</i> | |
| | • <i>Machine tools and machine tool workshop</i> | |
| | • <i>Laboratory: Fluid Mechanics, Thermodynamics, Heat Transfer, Hydraulic and Pneumatic, Mechanics of Materials</i> | |
| | • <i>Project</i> | |
| | • <i>The internship</i> | |
| | • <i>Heating and refrigeration equipment</i> | |
| 2017 – Present | • <i>Management of energy efficiency in facilities</i> | Technical and Vocational University (TVU), Faculty of Noshahr, Iran

www.noshahr.tvu.ac.ir

Teaching ID:
172-961-54-1300-0033 |
| | • <i>Application of renewable energy in facilities</i> | |
| | • <i>Materials in heating and refrigeration facilities</i> | |
| | • <i>Refrigeration workshop and cold storage</i> | |
| | • <i>Air conditioning workshop</i> | |
| | • <i>Technical language</i> | |
| | • <i>Multiplex technology</i> | |
| | • <i>Power generating technology</i> | |
| | • <i>Manual and Automatic power transmission</i> | |

	<ul style="list-style-type: none"> technology Vehicle Transmission Workshop 1 - AMT-DCT Diesel engine refuelling technology and workshop Hydraulic and Pneumatic Fuel technology and gas supply and workshop Car electrical and electronic systems technology Vehicle steering and control systems technology and workshop Car communication networks and workshop 	<p>Technical and Vocational University (TVU), Faculty of Noshahr, Iran</p> <p>www.noshahr.tvu.ac.ir</p> <p>Teaching ID: 172-961-54-1300-0033</p>
2017 - Present	<ul style="list-style-type: none"> Application of advanced technology in the automotive industry and workshops Application of computer software in the car Technical and specialized drawing Machine components Strength of Materials Factories of factory design Safety and health (HSE) 	
	<ul style="list-style-type: none"> Mechanical and electrical Facilities Specialized computer Building Physics Physics 1 (Static) 	<p>Kamal-ol-Molk University of Art and Architecture, Noshahr, Iran</p> <p>www.kamalolmolk.ac.ir</p> <p>Teaching ID: 519</p>
2017 - Present	<ul style="list-style-type: none"> Physics 2 (Cinematic Basics) Physics 3 (Electricity and Light) Building measurement and optimization systems Details of active and inactive solar systems 	
	<ul style="list-style-type: none"> Mechanical and electrical Facilities Engineering drawing 	<p>Allameh Halli University, Chalous, Iran</p> <p>www.ahelli-cha-ihe.ac.ir</p> <p>Teaching ID: 174</p>
2017 - Present	<ul style="list-style-type: none"> Applied Mechanics Hydraulic and pneumatic and laboratory 	
	<ul style="list-style-type: none"> Mechanical and electrical Facilities 	<p>Pooyandegan Danesh University, Chalous, Iran</p> <p>www.pd.ac.ir</p> <p>Teaching ID: 1701</p>
2019 - Present		
December 18, 2020	Specialized online webinar " <i>Familiarization of mechanics students with the working topics in the IRCEO (Iran Construction Engineering Organization), (entrance exam and qualifications)</i> ", hosted by Technical and Vocational University (TVU), Faculty of Noshahr	
December 17, 2020	Specialized online webinar " <i>Learn how to edit and present research in Microsoft Office</i> ", hosted by Technical and Vocational University (TVU), Faculty of Noshahr	

- December 16, 2020 Specialized online webinar "*E-learning and E-testing in Samyad system (for lecturers)*", hosted by Technical and Vocational University (TVU), Faculty of Noshahr
- September 19, 2020 Specialized online webinar "*Comprehensive training of Samyad system (for lecturers)*", hosted by Technical and Vocational University (TVU), Faculty of Noshahr
- June 13, 2020 Specialized online webinar "*Teaching how to hold a virtual test in the Samyad system (for lecturers)*", hosted by Technical and Vocational University (TVU), Faculty of Noshahr
- May 13, 2020 Specialized online webinar "*Teacher, training and test in Samyad system*", hosted by Technical and Vocational University (TVU), Faculty of Noshahr
- December, 2019 Training workshop for the staff of the technical unit of the General Administration of Ports and Maritime Affairs of Mazandaran Province - Noshahr Port entitled "*Car Service and Maintenance (PM)*" in Noshahr Port
- March, 2018 Training workshop for the staff of the technical unit of the General Administration of Ports and Maritime Affairs of Mazandaran Province - Noshahr Port entitled "*Starting, control and evaluation of the engine*" in Noshahr Port
- May, 2017 Workshop for master's degree students entitled "*Method of compiling and presenting a dissertation with computer software*" at IAU, Noshahr Branch
- November, 2015 Workshop for master's degree students entitled "*Method of searching for articles in reputable scientific databases*" at IAU, Noshahr Branch

Professional Experiences:

- 2020 - Present "*Employment license for engineers*" in the field of mechanical engineering at IRCEO (Iran Construction Engineering Organization), License number: 1241000591
- 2020 - Present "*Gas inspector*" at IRCEO (Iran Construction Engineering Organization)
- 2017 - Present "*Head of Mechanical Engineering Department*" in Technical and Vocational University (TVU), Faculty of Noshahr
- 2019 - Present "*Member of the committee for recruiting and reviewing the qualifications of lecturers*" in Technical and Vocational University (TVU), Faculty of Noshahr
- 2020 - Present "*Member of Virtual Education Working Group*" in Technical and Vocational University (TVU), Faculty of Noshahr
- 2019 - Present "*Member of the Educational, Research, Entrepreneurship and Equipment Councils*" in Technical and Vocational University (TVU), Faculty of Noshahr
- 2010 - 2016 "*Head of the Student Scientific Society of Mechanical Engineers*" in IAU, Noshahr Branch

Reviewed and Refereed:

- 2021 - Present *Journal of Natural Gas Science and Engineering, Elsevier*
 ISI, Q1, IF: 4.965, ISSN: 1875-5100
<https://www.sciencedirect.com/journal/journal-of-natural-gas-science-and-engineering>
- 2020 - Present *Journal of Thermal Analysis and Calorimetry, Springer*
 ISI, Q1, IF: 4.626, ISSN: 1388-6150
<https://www.springer.com/journal/10973>

- 2021 - Present *Environment, Development and Sustainability, Springer*
 ISI, Q2, IF: 3.219, ISSN: 1387-585X
<https://www.springer.com/journal/10668>
- 2015 - Present *Energy Exploration and Exploitation, SAGE*
 ISI, Q4, IF: 2.139, ISSN: 0144-5987
<https://journals.sagepub.com/home/eea>
- 2021 - Present *Journal of Selected Topics in Energy, Yasouj University Press, (in Persian)*
 ISSN: 2588-4905, Publication Sequence: Two Quarterly
http://yujs.yu.ac.ir/jste/index.php?&slct_pg_id=10&sid=1&slc_lang=en
- 2019 - Present *Technology Readiness Level (TRL):*
 20st, 21nd and 22rd Exhibition of Research, Technology and Technology Achievements of the Islamic Republic of Iran, Deputy Minister of Research and Technology - Ministry of Science, Research and Technology, Iran Technology Evaluation System (SAFA),
www.irantechhub.ir
- November, 2019 *Member of the scientific committee and judge of the exhibition:*
 The first exhibition of achievements and inventions of knowledge-based companies and technology units in the west of Mazandaran province, Noshahr

Certificates:

- 2019 Teacher Empowerment Workshop "*Tactics and Classroom Techniques with New Methods and Information Literacy*" in Technical and Vocational University (TVU), Faculty of Babol (Imam Sadegh)
- 2012 "*First class license to repair gasoline vehicles*" from Iran Technical and Vocational Training Organization (TVTO), <http://english.irantvto.ir/>
- 2012 "*Professional GPS user*" from Iran Technical and Vocational Training Organization (TVTO), <http://english.irantvto.ir/>

Publications:

Journal Publications:

- 1 **Masoud Taghavi**, Hesamoddin Salarian, Bahram Ghorbani, *Thermodynamic and exergy evaluation of a novel integrated hydrogen liquefaction structure using liquid air cold energy recovery, solid oxide fuel cell and photovoltaic panels*, Journal of Cleaner Production 320 (ISI, Q1, IF: 9.297), 2021, 128821, <https://doi.org/10.1016/j.jclepro.2021.128821>
- 2 Armin Ebrahimi, Bahram Ghorbani, **Masoud Taghavi**, *Pinch and exergy evaluation of a liquid nitrogen cryogenic energy storage structure using air separation unit, liquefaction hybrid process, and Kalina power cycle*, Journal of Cleaner Production 305 (ISI, Q1, IF: 9.297), 2021, 127226, <https://doi.org/10.1016/j.jclepro.2021.127226>
- 3 Bahram Ghorbani, Gholamreza Salehi, Armin Ebrahimi, **Masoud Taghavi**, *Energy, exergy and pinch analyses of a novel energy storage structure using post-combustion CO₂ separation unit, dual pressure Linde-Hampson liquefaction system, two-stage organic Rankine cycle and geothermal energy*, Energy 233 (ISI, Q1, IF: 7.147), 2021, 121051, <https://doi.org/10.1016/j.energy.2021.121051>
- 4 Zahra Alizadeh Afrouzy, **Masoud Taghavi**, *Thermo-economic analysis of a novel integrated structure for liquefied natural gas production using photovoltaic panels*, Journal of Thermal Analysis and Calorimetry 145 (3), (ISI, Q1, IF: 4.626), 2021, 1509-1536, <https://doi.org/10.1007/s10973-021-10769-4>

5 **Masoud Taghavi**, Gholamreza Salehi, *Modelling and Simulation of Phase Change Material Using in Building Energy Storage*, Journal of Renewable and New Energy 8 (2), ISSN: 2423-4931, (ISC, IF: 0.071), 2021, 110-119, (in Persian), https://www.jrenew.ir/article_129786.html?lang=en

6 **Masoud Taghavi**, *Lighting control strategies and the benefits of energy efficiency*, Monthly Pioneers in Building (Build Magazine), 2015, Vol. 84, pp 78-89, (in Persian)

7 **Masoud Taghavi**, *FRP applications in strengthening steel structures*, Monthly Pioneers in Building (Build Magazine), 2015, Vol. 82, pp 94-105, (in Persian)

8 **Masoud Taghavi**, *The trend of covering thermal performance*, Monthly Pioneers in Building (Build Magazine), 2015, Vol. 76, pp 130-142, (in Persian)

9 **Masoud Taghavi**, *Construction materials used in building structures against fire*, Monthly Pioneers in Building (Build Magazine), 2015, Vol. 75, pp 127-140, (in Persian)

10 **Masoud Taghavi**, *Reduce energy consumption in buildings temperate and tropical regions by using a heat loss*, Monthly Pioneers in Building (Build Magazine), 2014, Vol. 74, pp 57-68, (in Persian)

11 **Masoud Taghavi**, *Building materials for fire protection*, Monthly Pioneers in Building (Build Magazine), 2015, Vol. 72, pp 126-139, (in Persian)

12 Ali Lohrasbi Nichkoochi, **Masoud Taghavi**, *Environmentally sustainable green building and efficient new study in Dubai, Part II*, Monthly Pioneers in Building (Build Magazine), 2014, Vol. 72, pp 102-111, (in Persian)

13 **Masoud Taghavi**, *Safety equipment*, Monthly Pioneers in Building (Build Magazine), 2014, Vol. 70, pp 36-46, (in Persian)

14 Ali Lohrasbi Nichkoochi, **Masoud Taghavi**, *Environmentally sustainable and efficient green building (case of study - Dubai) Part I*, Monthly Pioneers in Building (Build Magazine), 2014, Vol. 69, pp 158-170, (in Persian)

15 **Masoud Taghavi**, *Use elevators without machine room in the building*, Monthly Pioneers in Building (Build Magazine), 2014, Vol. 68, pp 130-141, (in Persian)

16 **Masoud Taghavi**, Ali Lohrasbi Nichkoochi, *Use features in the building Curtain Wall*, Monthly Pioneers in Building (Build Magazine), 2014, Vol. 67, pp 26-37, (in Persian)

17 **Masoud Taghavi**, *Introduction to smart windows in buildings*, Monthly Pioneers in Building (Build Magazine), 2014, Vol. 66, pp 2-14, (in Persian)

18 Jahanfar Khaleghinia, **Masoud Taghavi**, *Air distribution systems in buildings*, Monthly Pioneers in HVAC (HVAC Magazine), 2014, Vol. 5, pp 150-159, (in Persian)

19 Gholamreza Salehi, Hossein Khoshnazar, **Masoud Taghavi**, *Thermal analysis of environmental heat exchanger in the gas cycle*, Technical Journal of Heat Exchanger (ISSN: 1735-7969), 2013, Vol. 42, pp 46-56, (in Persian)

20 **Masoud Taghavi**, Mohsen Abdollahi, Gholamreza Salehi, *Thermodynamic and thermo economic optimization of combined cycle power plant*, International Journal of Materials, Mechanics and Manufacturing (IJMMM), 2013, Vol. 1 (2), pp 186-190, <https://doi.org/10.7763/IJMMM.2013.V1.40>

Publications:

Conference Presentations:

1 Hamed Hosseinzadeh, Navid Bagheri, **Massoud Taghavi**, *Investigating the requirements and problems in the residential and commercial gas supply facilities section*, The Second National Conference of Impact and Explosion-Proof Structures, Bonab University, Iran, January 26-27, 2022, (in Persian)

- 2 **Masoud Taghavi**, *Investigating the Opportunities and Threats of Virtual Testing in Pandemic Covid-19 (Case Study: Samyad System of Technical and Vocational University (TVU))*, The First National Conference on Social Factors Affecting Health (Social, Economic and Psychological Dimensions of Corona Disease), Ahvaz Jundishapur University of Medical Sciences (AJUMS), Iran, March 14, 2021, (in Persian)
- 3 **Masoud Taghavi**, Zahra Bakhtiari, *The Role of Technical and Vocational University (TVU) in Developing Skills and Creating Student Employment*, The 23rd National Congress on Government-University-Industry Cooperation for National Development, University of Guilan, Rasht, Iran, March 9-10, 2021, (in Persian)
- 4 **Masoud Taghavi**, Yaser Gh. Zandi, *A Study of the Challenges and Capacities of Education and Electronic Testing in the Covid-19 Crisis (Case Study: Samyad System of the Technical and Vocational University (TVU))*, National Conference on Education during the Corona Epidemic (Opportunities Challenges and Achievements), General Department of Education of Fars Province, Shiraz, Iran, March 3-4, 2021, (in Persian)
- 5 **Masoud Taghavi**, Maryam Ahanchian, Sepideh Zalpour Makvand, Seyyedeh Narges Hosseini, *Evaluation of effective indicators on the quality of education and virtual test of the Samyad system of the Technical and Vocational University (TVU) in Pandemic Covid-19*, National Congress of University and Covid-19, Tehran-Iran, January 20-21, 2021, (in Persian)
- 6 **Masoud Taghavi**, Maryam Ahanchian, Baharak Habashi, Maryam Ghazanfari, Masoumeh Firouzinia, *The role of HSE expert on the implementation of health issues in construction workshops to prevent the spread and infection of workers in Covid-19*, National Conference on Social Health in Crisis, Ahvaz Jundishapur University of Medical Sciences (AJUMS), Iran, December 2, 2020, (in Persian)
- 7 **Masoud Taghavi**, Seyyedeh Narges Hosseini, *The Impact of Samyad System on the Quality of Virtual Education in the Covid-19 Crisis (Case Study: Technical and Vocational University (TVU), Faculty of Noshahr)*, National Conference on Exchange of Experiences of Universities and Educational Centers in the Implementation of E-Learning in the Covid-19 Crisis, Tehran-Iran, August 11-13, 2020, (in Persian)
- 8 **Masoud Taghavi**, Hesamoddin Salarian, *Analysis of Building Energy Consumption Regulations in Europe*, The 2nd International Conference on ECO Energy, Tehran-Iran, June 20, 2019, (in Persian)
- 9 **Masoud Taghavi**, Hesamoddin Salarian, Jahanfar Khaleghinia, *Multifunctional Optimization of Air-Conditioning System Using Evolutionary Computing Algorithm*, The 2nd International Conference on New Technologies in Science, Amol, Iran, March 13, 2019, (in Persian)
- 10 **Masoud Taghavi**, *Economic and Environmental Assessment of Micro-CHP System for Use in Residential Complex (Case Study: Masoud Residential-Commercial Complex in Chalous City)*, The 1st International Conference on New Technologies in Science, Amol, Iran, September 7, 2017, (in Persian)
- 11 **Masoud Taghavi**, Hadi Mabadi Rahimi, *Reducing the load of the cooling system in commercial centers using thermal analysis method (Case study: Panorama Kelarabad Shopping Center)*, The 1st International Conference on New Technologies in Science, Amol, Iran, September 7, 2017, (in Persian)
- 12 **Masoud Taghavi**, Gholamreza Salehi, *Numerical Study of Finned Tube Heat Thermal Energy Storage System with Phase Change Material*, The 2nd National Conference on Science and Modern Technology in Iran, December 26, 2016, Tehran, Iran, (in Persian)
- 13 **Masoud Taghavi**, Gholamreza Salehi, *A Review of The Numerical Modelling of Phase Change Materials in Energy Storage*, The 2nd National Conference on Science and Modern Technology in Iran, December 26, 2016, Tehran, Iran, (in Persian)
- 14 **Masoud Taghavi**, Gholamreza Salehi, *A Study on Numerical Modelling and the Use of Composites and Composite Phase Change Material*, The 2nd National Conference on Science and Modern Technology in Iran, December 26, 2016, Tehran, Iran, (in Persian)
- 15 **Masoud Taghavi**, Gholamreza Salehi, Rasoul Hajibabaei, *Exergy Analysis of Benzene Production Cycle*, The 8th International Exergy, Energy and Environment Symposium (IEEE8), May 1-4, 2016, Antalya, Turkey

- 16 **Masoud Taghavi**, Hadi Mabadi Rahimi, Seyyed Sajjad Mousavi Dolatabadi, *Energy Efficiency and Providing Comfort Temperature by Using a New Method Designed for Residents in the Building*, The 1st International Conference on Mechanical and Aerospace Engineering, April 14, 2016, Tehran, Iran, (in Persian)
- 17 **Masoud Taghavi**, *Efficiency and energy pricing reform in Iran*, The 4th National Conference on Environment, Energy and Biodefense, January 28, 2016, Tehran, Iran, (in Persian)
- 18 **Masoud Taghavi**, Hadi Mabadi Rahimi, Seyyed Sajjad Mousavi Dolatabadi, Mohsen Kiamansouri, *Review the Operation and Use of the Heat Exchanger Tube in the Middle East*, The 3rd International Conference on Modern Finding in Sciences and Technology, January 04, 2016, Qom, Iran, (in Persian)
- 19 **Masoud Taghavi**, *Energy Efficiency, Engineering Path Towards Sustainable Development*, The 1st National Conference on Modern Advances in the Energy Sector, Energy Institute of Higher Education, December 25, 2015, Saveh, Iran, (in Persian)
- 20 **Masoud Taghavi**, *Reduce Energy Consumption in Buildings Temperate and Tropical Regions by Using a Heat Reducer*, The 2nd National Conference on Optimization and Engineering, December 24, 2015, Babol, Iran, (in Persian)
- 21 **Masoud Taghavi**, *Household air conditioners and heaters integrated subtropical climate*, The International conference in new research of Industrial and Mechanical Engineering, September 17, 2015, Tehran, Iran, (in Persian)
- 22 **Masoud Taghavi**, *The use of new and renewable energy in HVAC of buildings*, The 2nd International Conference and Exhibition on Solar Energy, August 30-31, 2015, Tehran, Iran, (in Persian)
- 23 **Masoud Taghavi**, *Analysis of the performance parameters of heating systems and air-conditioning (HVAC) the recipient of renewable energy sources for buildings*, The 1st International Conference on air-conditioning and heating and cooling installations in Iran, May 21, 2015, Tehran, Iran, (in Persian)
- 24 **Masoud Taghavi**, Somayeh Abdollahi, *Clean energy, alternative fuel*, The 2nd National Conference of Engineering Sciences, May 13-14, 2015, Tonekabon, Iran, (in Persian)
- 25 **Masoud Taghavi**, *New Systems to Manage Energy Consumption in Modern Buildings*, The 1st National Conference on Electrical Engineering, IAU, Langeroud Branch, February 25-26, 2015, Langeroud, Iran, (in Persian)
- 26 **Masoud Taghavi**, Gholamreza Salehi, Ali Lohrasbi Nichkoohi, *Simulation of Wind Solar Hybrid Power Generation for Pumping Station*, XII International Conference on Fluid Mechanics, Heat Transfer and Thermodynamics, December 25-26, 2014, Dubai, UAE
- 27 **Masoud Taghavi**, Ali Lohrasbi Nichkoohi, Gholamreza Salehi, *Engineering development of a cost model for alternative hybrid vehicles*, The 1st National Conference on the Central Development of Civil Engineering, Architecture, Electricity and Mechanics in Iran, December 18, 2014, Gorgan, Iran, (in Persian)
- 28 **Masoud Taghavi**, *Optimization of Energy Consumption in Buildings*, The 1st National Conference on Intelligent Building Management Systems with an Energy Efficiency Approach, October 02, 2014, Ghazvin, Iran, (in Persian)
- 29 Reza Bagheri, **Masoud Taghavi**, *The Role of Oil, Gas and Energy for the realization of economic strength*, The 2nd International Conference on the Economy in Terms of Sanctions, September 22, 2014, Babolsar, Iran, (in Persian)
- 30 **Masoud Taghavi**, *Advanced control strategies for saving energy in buildings*, The 1st National Conference on Energy Consumption Optimization Sciences and Engineering, September 4, 2014, Babol, Iran, (in Persian)
- 31 Gholamreza Salehi, **Masoud Taghavi**, Ali Lohrasbi Nichkoohi, Mohammad Shafiey, *Nox Reduction in Thermal Cracking Furnace by reburning method*, The 8th International Conference of Chemical Engineering, February 24-27, 2014, Kish Island, Iran, (in Persian)

- 32 Gholamreza Salehi, Hossein Khoshnazar, **Masoud Taghavi**, *Thermal analysis of environmental heat exchanger in the gas cycle*, The 5th National Conference of Heat Exchangers, November 21, 2013, Tehran, Iran, (in Persian)
- 33 **Masoud Taghavi**, Gholamreza Salehi, Bahram Ghorbani, *Thermoeconomic simulation and analysis of combined gas combustion system, fuel cell and gas turbine for urban waste*, The 3rd International Conference of Fuel, Energy and the Environment, September 17-18, 2013, Karaj, Iran, (in Persian)
- 34 **Masoud Taghavi**, Mohsen Abdollahi, Gholamreza Salehi, *Thermodynamic and thermo economic optimization of combined cycle power plant*, The 2nd International Conference on Fluid Dynamics and Thermodynamics Technologies (FDDT 2013), March 15-16, 2013, Istanbul, Turkey
- 35 Samad Ghaffari, **Masoud Taghavi**, Milad Ahmadpour, Gholamreza Salehi, *Thermodynamic Simulation of the Seawater Greenhouse Systems*, The 2nd National Conference of Wind and Solar Energy, February 21, 2013, Tehran, Iran, (in Persian)

Scientific References:

[Dr. Bahram Ghorbani](#)

Assistant Professor, Faculty of Engineering Modern Technologies, Amol University of Special Modern Technologies, Amol, Iran

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[Dr. Gholamreza Salehi](#)

Assistant Professor, Department of Mechanical Engineering, IAU, Central Tehran Branch, Tehran, Iran

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Cell Phone: (0098) 9122031671

[Dr. Ali Lohrasbi Nichkoochi](#)

Assistant Professor, Department of Mechanical Engineering, IAU, Noshahr Branch, Noshahr, Iran

E-mail: Lohrasbina@gmail.com; Lohrasbi@iauns.ac.ir

Cell Phone: (0098) 9126148991

[Dr. Morteza Sadeghifar](#)

Assistant Professor, Department of Mechanical Engineering, École de Technologie Supérieure, Montreal, QC, Canada

E-mail: Sadeghifar.morteza@gmail.com; M.sadeghifar.ca@gmail.com

Cell Phone: (001) 4387637438

[Dr. Mohsen Kiamansouri](#)

Assistant Professor, Department of Mechanical Engineering, IAU, Noshahr Branch, Noshahr, Iran

E-mail: Kiamansouri@gmail.com; Kiamansouri@iauns.ac.ir

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