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1496

Supervised MSc Theses

#	Thesis title	By	Date
1	Geometric optimization of flow field in a vanadium redox flow battery	Taha Karami & Mohammad Jafar Kermani	September 2021
2	Investigation of Winglet Effect on Aircraft Wing Performance	Sina Nozarian & Mohammad Jafar Kermani	April 2021
3	Dynamic modeling and control of a reformer for a polymer electrolyte membrane fuel cell system	Reza Aghabarari & Mohammad Jafar Kermani	January 2021
4	Two-phase modeling of PEM fuel cells using User Defined Function ability of Fluent software package	Reza Sadeghi Bagheney & Mohammad Jafar Kermani	February 2020
5	Modeling of a reformer for PEM fuel cells	Milad Rashidi Mirtaehri & Mohammad Jafar Kermani	September 2019
6	Investigation of the Vortex Strength in Downstream of a Wing	Seyed Ahmad Sajjadi & Mohammad Jafar Kermani	July 2019
7	Numerical solution and experimental analysis of cooling phenomonal for PEM fuel cell stack	Hossein Lotfi Hossein Abad & Mohammad Jafar Kermani	May 2019
8	Design, manufacturing and test of a PEM fuel cell having visible end plates aimed at water management.	Mohammadhassan Khodsiani & Mohammad Jafar Kermani	February 2019
9	Design of a Three cell PEM fuel cell staek for electrical erase production	Baydaa Ghaleb Aajami Al Janabi & Mohammad Jafar Kermani	June 2018

10	Heating and cooling load and air distribution simulation of a selected building space with CFD and semi experimental Relations methods	Ehsan Afzali Nasab & Mohammad Jafar Kermani	February 2018
11	simulation of the membrane of proton exchange fuel cell at various operating conditions	Tahere Gorji & Mohammad Jafar Kermani	February 2018
12	Numerical simulation of the anode electrode of polymer electrolyte membrane fuel cell	Abbas Moradi Bilondi & Mohammad Jafar Kermani	October 2017
13	Numerical simulation for the cathode electrode of polymer electrolyte membrane fuel cell	Peyman Havaej & Mohammad Jafar Kermani	October 2017
14	Solution to the cathode side flow field of pemfuel cell with chnnels containing partial blockage	Ali Shoostari & Mohammad Jafar Kermani	May 2017
15	Investigation on the effect of different geometries of serpentine channels on the PEM fuel cell performance	Ali Ashgarf & Mohammad Jafar Kermani	October 2016
16	Modelling and design of flow collector and distributor in a pem fuel cell	Ali Kamalabadi Farahani & Mohammad Jafar Kermani	October 2016
17	development of numerical-analytical method to split the loss components in the profile of a low pressure steam turbine	Morteza Rezaei & Mohammad Jafar Kermani	February 2016
18	Solution of a two-phase three-dimensional flow to a polymer electrolyte membrane fuel cell	Alireza Tahmasbizadeh & Mohammad Jafar Kermani	October 2015
19	Numerical Investigation of Thermal Management of PEM Fuel Cell Systems by Fluids	Amir Hossein Zare & Mohammad Jafar Kermani	February 2014
20	Analysis of surface roughness effects on the performance of a gas turbine stage	Ali Farokhipour & Mohammad Jafar Kermani	October 2013
21	performance degradation of PEM fuel cells due to gas contamination in the anode electrode side	Dehpour & Mohammad Jafar Kermani	February 2013
22	Three-dimensional solution to the cathode side electrode of PEM Fuel cell	Vahid Ahmadi Sarbast & Mohammad Jafar Kermani	October 2012
23	One Dimensional Performance Modeling of PEM Fuel Cells	Mahbod Moein Jahromi & Mohammad Jafar Kermani	September 2012
24	Investigation of the Gas Turbine Blades Fault on the Blade Performance	Sajad Abolpour Mashizi & Mohammad Jafar Kermani	February 2012
25	Influence of Operating Parameters on monocell Performance in PEM Fuel Cell	Mostafa Vahid & Mohammad Jafar Kermani	February 2012
26	Investigation of the Influence of a Wavy Gas Delivery Ducts on the Performance of a PEM Fuel Cell	Mohammad Dehsara & Mohammad Jafar Kermani	February 2012
27	Simulation of PEM fuel cell catalystlayer using agglomerate model	Mohsen Simyari & Mohammad Jafar Kermani	February 2012
28	Modeling of secondary flow losses in axial flow turbomachines	Ryan Nikoo & Mohammad Jafar Kermani	June 2011
29	Modeling of tip leakage losses in axial gas turbines	Alireza Shahrabi Farahani & Mohammad Jafar Kermani	June 2011
30	Simulation of two phase liquid-vapor flow around steam turbine	Hossein Beheshti Amiri & Mohammad Jafar Kermani	February 2011
31	Thermodynamic Modelling of Combined cycle of Solid Oxide Fuel Cell Integrated with a Gas turbin	Mahdi Saghafi & Mohammad Jafar Kermani	February 2011

32	One dimensional Performance Modeling of Proton Exchange Membrane Fuel cell	Amirshayan Azadeh & Mohammad Jafar Kermani	July 2010
33	One Dimensional Modeling of Proton Exchange Membrane Fuel Cells	Davood Ghadiri Moghaddam & Mohammad Jafar Kermani	June 2010
34	Along Channel Numerical Computation of a Flow Channel Linked to a Porous GDL in the Cathode of PEM Fuel Cell	Mahdi Fayz & Mohammad Jafar Kermani	July 2009
35	Numerical Computation of a Through-Channel Gas Diffusion Layer in the Air-Side Electrode of PEM Fuel Cell	Kazem Ashraf & Mohammad Jafar Kermani	July 2009
36	Numerical Simulation of Flow Field in and around Ramjet	Habibalah Khazaei Kojoori & Mohammad Jafar Kermani	December 2008
37	NUMERICAL COMPUTATION OF AIR FLOW THROUGH THE INLET DIFFUSER OF RAMJET	Mohsen Akbarzadeh & Mohammad Jafar Kermani	December 2007
38	NUMERICAL SOLUTION OF TWO-PHASE FLOW WITHIN THE POROUS ELECTRODE OF PEM	Mobin Khakbaz Baboli & Mohammad Jafar Kermani	March 2007
39	STUDY OF CONDENSATION PHENOMENA WITHIN THE CATHODE ELECTRODE OF PEM	Hamid Reza Shab Gard & Mohammad Jafar Kermani	February 2007
40	THERMODYNAMIC ANALYSIS AND MODELING OF SOLID OXIDE FUEL CELL	Navab Khajeh Hoseini Delsam & Mohammad Jafar Kermani	December 2006
41	NUMERICAL STUDY OF TRANSONIC STEAM FLOW CONDENSATION PHENOMENA IN STATIONARY STEAM TURBINE BLADES	Mohsen Zayernouri & Mohammad Jafar Kermani	November 2006

Journal Papers

Portal Records

- 1 Ali Madadi, Mahdi Nili-Ahmadabadi, Mohammad Jafar Kermani, "Quasi-3D inverse design of S-shaped diffuser with specified cross-section distribution; super-ellipse, egg-shaped, and ellipse", INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, June 2021 Vol. -, Num. 0, Page 1-18, June 2021,
- 2 M. Moein-Jahromi, Mohammad Jafar Kermani, "Three-dimensional multiphase simulation and multi-objective optimization of PEM fuel cells degradation under automotive cyclic loads", ENERGY CONVERSION AND MANAGEMENT, March 2021 Vol. 231, Num. 0, Page 1-25, March 2021,
- 3 Mohammadreza Hasheminasab, Mohammad Jafar Kermani, S.Salman Nourazar Khoshknab, Mohammadhassan Khodsiani, "Experimental investigation of the influence of PEMFC operating conditions on its performance and water management", , February 2021 Vol. 52, Num. 11, Page 181-190, February 2021,
- 4 Hossein Mehnatkesh, Aria Alasty , Mehrdad Boroushaki, Mohammadhassan Khodsiani, Mohammadreza Hasheminasab, Mohammad Jafar Kermani, "Estimation of Water Coverage Ratio in Low Temperature PEM-Fuel Cell Using Deep Neural Network", IEEE SENSORS JOURNAL, May 2020 Vol. 20, Num. 18, Page 1-8, May 2020,
- 5 Mohammadreza Hasheminasab, Mohammad Jafar Kermani, S.Salman Nourazar Khoshknab, Mohammadhassan Khodsiani, "A novel experimental based statistical study for water management in proton exchange membrane fuel cells", APPLIED ENERGY, April 2020 Vol. 264, Num. 0, Page 1-16, April 2020,
- 6 Abbas Moradi Bilondi, Mohammad Jafar Kermani, Hadi Heidary, (محمد مهدی عبدالله زاده)پسا دکترا, "Investigation of the effect of anode fuel contaminants on the performance of PEMFC", , April 2020 Vol. 52, Num. 2, Page 61-70, April 2020,
- 7 Mohammadreza Hasheminasab, Mohammad Jafar Kermani, S.Salman Nourazar Khoshknab, Mohammadhassan Khodsiani, "Simulation, manufacturing and test of a transparent PEM fuel cell", , March 2020 Vol. 0, Num. 0, Page 1-24, March 2020,

- 8 Asrin Ghanbarian, Mohammad Jafar Kermani, J. Scholta, "Generalization of a CFD model to predict the net power in PEM fuel cells", *Iranian Journal of Hydrogen & Fuel Cell*, April 2019 Vol. 6, Num. 3, Page 23-37, April 2019,
- 9 Abbas Moradi Bilondi, M. Abdollahzadeh, Mohammad Jafar Kermani, Hadi Heidary, Peyman Havaej, "Numerical study of anode side CO contamination effects on PEM fuel cell performance; and mitigation methods", *ENERGY CONVERSION AND MANAGEMENT*, October 2018 Vol. 177, Num. 0, Page 519-534, October 2018,
- 10 Asrin Ghanbarian, Mohammad Jafar Kermani, J. Scholta, M. Abdollahzadeh, "Polymer electrolyte membrane fuel cell flow field design criteria – Application to parallel serpentine flow patterns", *ENERGY CONVERSION AND MANAGEMENT*, June 2018 Vol. 166, Num. 0, Page 281-296, June 2018,
- 11 Peyman Havaej, Mohammad Jafar Kermani, M. Abdollahzadeh, Hadi Heidary, Abbas Moradi Bilondi, "A numerical modeling study on the influence of catalyst loading distribution on the performance of Polymer Electrolyte Membrane Fuel Cell", *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, May 2018 Vol. 34, Num. 21, Page 10031-10047, May 2018,
- 12 Navid Zehtabiyani Rezaie, Amir Arefian, Mohammad Jafar Kermani, Amir Karimi Noughabi, M. Abdollahzadeh, "Effect of flow field with converging and diverging channels on proton exchange membrane fuel cell performance", *ENERGY CONVERSION AND MANAGEMENT*, September 2017 Vol. 152, Num. 0, Page 31-44, September 2017,
- 13 Saad S Alrwashdeh, Ingo Manke, Henning Markötter, Jan Haußmann, Nikolay Kardjilov, André Hilger, Mohammad Jafar Kermani, Merle Klages, A.M. Al-Falahat, Joachim Scholta, John Banhart, "Neutron radiographic in operando investigation of water transport in polymer electrolyte membrane fuel cells with channel barriers", *ENERGY CONVERSION AND MANAGEMENT*, July 2017 Vol. 148, Num. 0, Page 604-610, July 2017,
- 14 Hadi Heidary, Mohammad Jafar Kermani, Bahram Dabir, "-", *THERMAL SCIENCE*, May 2017 Vol. 21, Num. 5, Page 2105-2115, May 2017,
- 15 H. Bagheri-Esfe, Mohammad Jafar Kermani, Majid Saffar-Avval, "Effects of non-equilibrium condensation on aerodynamics of the flow field in a steam turbine cascade", *SCIENTIA IRANICA TRANSACTION B-MECHANICAL ENGINEERING*, May 2017 Vol. 24, Num. 2, Page 624-636, May 2017,
- 16 Mahbod Moein Jahromi, Mohammad Jafar Kermani, Saeed Movahed, "Prediction of degradation in performance of cathode catalyst layer during load cycling", *ENERGY CONVERSION AND MANAGEMENT*, May 2017 Vol. 17, Num. 6, Page 67-78, May 2017,
- 17 Mahbod Moein Jahromi, Mohammad Jafar Kermani, Saeed Movahed, "Degradation forecast for PEMFC cathode-catalysts under cyclic loads", *JOURNAL OF POWER SOURCES*, May 2017 Vol. 359, Num. 0, Page 611-625, May 2017,
- 18 Hadi Heidary, Mohammad Jafar Kermani, Ajay K. Prasad, Suresh G. Advani, Bahram Dabir, "-", *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, November 2016 Vol. -, Num. 0, Page 1-13, November 2016,
- 19 Hadi Heidary, Mohammad Jafar Kermani, Navab Khajeh Hoseini Delsam, "Performance analysis of PEM fuel cells cathode catalyst layer at various operating conditions", *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, October 2016 Vol. 41, Num. 0, Page 22274-22284, October 2016,
- 20 Ali Farokhipour, Masoud Boroomand, Mohammad Jafar Kermani, "Analysis of Surface Roughness Effect on the Performance of Gas Turbine Stage", *ENERGY CONVERSION AND MANAGEMENT*, September 2016 Vol. 6, Num. 2, Page 197-212, September 2016,
- 21 Hadi Heidary, Mohammad Jafar Kermani, Bahram Dabir, "-", *ENERGY CONVERSION AND MANAGEMENT*, June 2016 Vol. 124, Num. 0, Page 51-60, June 2016,
- 22 Hadi Heidary, Mohammad Jafar Kermani, Suresh G. Advani, Ajay K. Prasad, "Experimental investigation of in-line and staggered blockages in parallel flowfield channels of PEM fuel cells", *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, March 2016 Vol. 41, Num. 0, Page 6885-6893, March 2016,
- 23 Hamed Bagheri Esfe, Mohammad Jafar Kermani, Majid Saffar-Avval, "Effects of non-equilibrium condensation on deviation angle and efficiency in a steam turbine stage", *JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY*, March 2016 Vol. 30, Num. 3, Page 1351-1361, March 2016,
- 24 Hossein Beheshti Amiri, Mohammad Jafar Kermani, A. A. Piroozi, "Parametric studies influencing condensation evolution in compressible steam flow", *HEAT AND MASS TRANSFER*, January 2016 Vol. 51, Num. 8, Page 1075-1084, January 2016,
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- 26 Hamed Bagheri Esfe, Mohammad Jafar Kermani, Majid Saffar-Avval, "Numerical Simulation of Compressible Two-Phase Condensing Flows", *Journal of Applied Fluid Mechanics JAFM*, December 2015 Vol. 9, Num. 3, Page 1-10, December 2015,
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- 31 Ali Madadi, Mohammad Jafar Kermani, Mahdi Nili-Ahmadabadi, "Three-Dimensional Design of Axial Flow Compressor Blades Using the Ball-Spine Algorithm", *Journal of Applied Fluid Mechanics JAFM*, October 2015 Vol. 8, Num. 4, Page 683-691, October 2015,
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- 39 Hadi Heidary, Reza Hosseini Abardeh, M.Pirmohammadi, Mohammad Jafar Kermani, "Numerical study of magnetic field effect on nano-fluid forced convection in a channel", *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*, September 2014 Vol. 374, Num. 0, Page 11-17, September 2014,
- 40 Hossein Beheshti Amiri, Mohammad Jafar Kermani, "The effect of inlet stagnation supercooling degree on the aerodynamics of the steam flow field around a rotor tip section", *HEAT AND MASS TRANSFER*, July 2014 Vol. 51, Num. 1, Page 117-128, July 2014,
- 41 Ali Madadi, Mohammad Jafar Kermani, M. Nili-Ahmadabadi, "Applying the ball-spine algorithm to the design of blunt leading edge airfoils for axial flow compressors", *JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY*, July 2014 Vol. 28, Num. 11, Page 4517-4526, July 2014,
- 42 Sajad Abolpour Mashizi, Ali Madadi, Mohammad Jafar Kermani, "Comparison of inviscid and viscous transonic flow field in VKI gas turbine blade cascade", *Alexandria Engineering Journal*, April 2014 Vol. 53, Num. 0, Page 275-280, April 2014,

- 43 Sajad Abolpour Mashizi, Mohammadhadi Nakhaei, Mohammad Jafar Kermani, Ali Madadi, "Development of a Numerical Based Correlation for Performance Losses Due to Surface Roughness in Axial Turbines", JOURNAL OF MECHANICS, March 2014 Vol. 30, Num. 6, Page 631-642, March 2014,
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- 45 Hadi Heidary, Abbas Abbassi, Mohammad Jafar Kermani, "Enhanced heat transfer with corrugated flow channel in anode side of direct methanol fuel cells", ENERGY CONVERSION AND MANAGEMENT, November 2013 Vol. 75, Num. 0, Page 748-760, November 2013,
- 46 Hadi Heidary, Mohammad Jafar Kermani, "Performance enhancement of fuel cells using bipolar plate duct indentations", INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, November 2013 Vol. 38, Num. 13, Page 5485-5496, November 2013,
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- 49 Sabaah Hamidi, Mohammad Jafar Kermani, "High resolution computation of compressible condensing/ evaporating moist-air flow for external and internal flows", AERONAUTICAL JOURNAL, April 2013 Vol. 117, Num. 1190, Page 427-444, April 2013,
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- 52 Hadi Heidary, Mohammad Jafar Kermani, "Heat transfer enhancement in a channel with block(s) effect and utilizing Nano-fluid", INTERNATIONAL JOURNAL OF THERMAL SCIENCES, April 2012 Vol. 57, Num. 1, Page 163-171, April 2012,
- 53 Hadi Heidary, Mohammad Jafar Kermani, "Enhancement of heat exchange in a wavy channel linked to a porous domain; a possible duct geometry for fuel cells", INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, January 2012 Vol. 39, Num. 1, Page 112-120, January 2012,
- 54 Mohammad Jafar Kermani, John Stockie, "The effect of slip velocity on saturation for multiphase condensing mixtures in a PEM fuel cell", INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, November 2010 Vol. 35, Num. 35, Page 0-0, November 2010,
- 55 Navab Khajeh Hoseini Delsam, Hamid Reza Shab Gard, Mohammad Jafar Kermani, "Water Management in the Cathode Side of a PEM Fuel Cell", Chemical, Polymer and Material Science and Technology, Amirkabir, October 2010 Vol. 4, Num. 4, Page 0-0, October 2010,
- 56 Hadi Heidary, Mohammad Jafar Kermani, "Effect of nano-particles on forced convection in sinusoidal-wall channel", INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, September 2010 Vol. 37, Num. 10, Page 0-0, September 2010,
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- 60 Mohammad Jafar Kermani, Mohsen Zayernouri, Majid Saffar-Avval, "Generalization of Analytical Two-Phase Steam Flow Calculator to High-Pressure Cases", , December 2006 Vol. , Num. 4, Page 0-0, December 2006,
- 61 Mohsen Zayernouri, Mohammad Jafar Kermani, "Development of an Analytical Solution for Compressible Two-Phase Steam Flow", , June 2006 Vol. , Num. 2, Page 0-0, June 2006,
- 62 Mohammad Jafar Kermani, A.G Gerber, J.M Stockie, "An Application of Roes High Resolution Scheme to Transonic Two-Phase Flow Through Nozzles", , June 2006 Vol. , Num. 1, Page 0-0, June 2006,
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- 64 Mohammad Jafar Kermani, J.M Stockie, "Heat and Mass Transfer Modeling of Dry Gases in the Cathode of PEM Fuel Cells", , July 2004 Vol. , Num. 18, Page 0-0, July 2004,
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Conference Papers

Portal Records

- 1 Mahbod Moein Jahromi, Reza Sadeghi Bagheney, Mohammad Jafar Kermani, "Two phase modeling of polymer exhagne membrane fuel cell considering dissolved water content in ionomer phase ", The 28th Annual International Conference of Iranian Society of Mechanical Engineers-ISME2020, May 2020
- 2 Taha Karami, Maede Dehghani Mohammad Abadi, Mohammadreza Hasheminasab, Asrin Ghanbarian, Mohammad Jafar Kermani, "Investigation of PEM fuel cell performance enhancement by cathode flow channel indentation ", 28th Annual International Conference of Iranian Society of Mechanical Engineering, May 2020
- 3 Mahbod Moein Jahromi, Mohammad Jafar Kermani, M. Abdollahzadeh, "CFD electrochemical modeling of the cathode electrode of PEM fuel cell ", The 28th Annual International Conference of Iranian Society of Mechanical Engineers-ISME2020, May 2020
- 4 Sina Nozarian, Mohammad Jafar Kermani, Mahmoud Mani, "A Review Of Winglet Effect On Wing Performance ", The 18th International Conference Of Iranian Aerospace Society, February 2020
- 5 Seyed Ahmad Sajjadi, Mohammad Jafar Kermani, Mahmoud Mani, Masoud Heidari Soreshjani, "Aerodynamic optimization and experimental and numerical investigation of the effect of the winglet on wingtip vortices ", The 18th international conference of Iranian Aerospace Society, February 2020
- 6 Mahbod Moein Jahromi, Mohammad Jafar Kermani, Saeed Movahed, "Degradation Prediction of PEMFC Catalyst Layer Using an Empirical Based Model ", The second Materials Challenges for Fuel Cells and Hydrogen Technologies, September 2016
- 7 Mahbod Moein Jahromi, Mohammad Jafar Kermani, "Reviewing of PEM Fuel Cell Cathode catalyst Layer degradation as Power Supplier of Vehicle ", The 6th Fuel and Combustion Conference of Iran, February 2016
- 8 Asrin Ghanbarian, Mohammad Jafar Kermani, "A Review of channel design in fuel cells ", 6th Conference Combustion of Iran, February 2016
- 9 Asrin Ghanbarian, Mohammad Jafar Kermani, Joachim Scholta, Hadi Heidary, "Generalization of a CFD Model to Predict the Net Power in PEM Fuel Cells ", 6th International Conference on Fundamental and Developments on Fuel Cells, February 2015
- 10 Ali Madadi, Mahdi Nili-Ahmadabadi, Mohammad Jafar Kermani, "AERODYNAMIC DESIGN OF S-SHAPED DIFFUSERS USING BALL SPINE INVERSE DESIGN METHOD ", Proceedings of ASME Turbo Expo 2014: Turbine Technical Conference and Exposition GT2014, June 2014
- 11 Mostafa Vahid, Mohammad Jafar Kermani, Nasser Seraj Mehdizadeh, "Modeling of 3D PEM Fuel Cell and Influence of Operating Parameters on its Performance ", Second Conference of Hydrogen and Fuel Cell, May 2012

- 12 Mohammad Dehsara, Mohammad Jafar Kermani, "The Enhancement of the PEM Fuel Cell Performance with Semicircular Indents in Gas Flow Channels ", The 2nd Conference on Hydrogen and Fuel Cell, May 2012
- 13 Mohammad Dehsara, Mohammad Jafar Kermani, "Performance Enhancement of PEM Fuel Cells Using Semicircular-Bed Gas Flow Field Channels ", 20th Annual Conference of CFD Society of Canada, May 2012
- 14 Vahid Ahmadi Sarbast, Mohammad Jafar Kermani, "Numerical and Analytical solution to the semi porous channel ", 20th Annual International Iranian Mechanical Engineering Conference, May 2012
- 15 Mahbod Moein Jahromi, Mohammad Jafar Kermani, "Modeling of Nafion 115 Membrane and GDL in Anode and Cathode Sides of a PEMFC ", 20th Annual International Iranian Mechanical Engineering Conference, May 2012
- 16 Mahbod Moein Jahromi, Mohammad Jafar Kermani, "Mass Transport and Water Management in Polymer Exchange Membrane Fuel Cell ", Fuel Cell 2012 Science & Technology, April 2012
- 17 Mohammad Dehsara, Mohammad Jafar Kermani, "Three-Dimensional CFD Computations Considering the Influence of Gas Flow Channels Indentation (Partial Interdigitation) on the Performance of PEM Fuel Cells ", Fuel Cells 2012 Science & Technology, A Grove Fuel Cell Event, 11-12 April, 2012, Berlin, Germany, April 2012
- 18 Mohammad Dehsara, Mohammad Jafar Kermani, "Three-Dimensional Two-Phase Computation of PEM Fuel Cells with Wavy Gas Flow Channels ", 2nd International Conference on Renewable Energy: Generation and Applications, March 4-7, 2012, Al Ain, UAE, March 2012
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- 70 Mohammad Jafar Kermani, E.G Plett, "Roe Scheme in Generalized Coordinates: Part II- Application to Inviscid and Viscous Flows " , , January 2001
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Taught Courses

#	Course title	Description	Headlines	Date
1	Thermodynamics (II)	Training students how to apply the first law of thermodynamics to engineering problems		Fall 2020