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Citations (Scopus):

287

Supervised MSc Theses

#	Thesis title	By	Date
1	3D simulation of turbocharger compressor for extraction and optimization of curve performance	Mohammadreza Mirzaei & S.Mostafa Agha Mirsalim	April 2021
2	Reducing emissions, especially NOx, in the diesel engine, Experimentally and softly	Jamshid Moradi & S.Mostafa Agha Mirsalim	February 2020
3	Analyze and configuration optimization of radiator and fan for the air flow in the vehicle cooling system	Mohammad Ramezani Shamami & S.Mostafa Agha Mirsalim	September 2019
4	Experimental investigation of the effect of injector angle on the characteristics of spray in PFI engines	Mahdi Nazari Chekoveri & S.Mostafa Agha Mirsalim	May 2019
5	Numerical and experimental investigation of 3D flow in turbochargers turbine of internal combustion engine	Mojtaba Farajpoor Khanaposhtani & S.Mostafa Agha Mirsalim	February 2018
6	Experimental and numerical study of heat transfer in turbocharger	Masoud Kahnooji & S.Mostafa Agha Mirsalim	July 2017
7	Modeling of high speed diesel engine fuel injection system and experimental investigation of the fuel spray at cold conditions	Ahmed Qasim Mohammed Almansoori & S.Mostafa Agha Mirsalim	March 2017
8	Adaptive control strategy for automotive electronic throttle	Mirkamal Seyedrasouli & S.Mostafa Agha Mirsalim	February 2017
9	Experimental study on effects of various parameters on the formation of jet of gasoline direct injection	Saeed Rahmani & S.Mostafa Agha Mirsalim	February 2017

10	The Design Of Variable Displacement Oil Pump for 3 Cylinder Turbocharged Sparked Ignition Engine	Meysam Gagoonani & S.Mostafa Agha Mirsalim	February 2017
11	Design of a bubble separator device	Mehdi Khalilikhoo & S.Mostafa Agha Mirsalim	December 2016
12	Heat transfer coefficient distribution in combustion chamber of a diesel engine	Emad Aminiyan & S.Mostafa Agha Mirsalim	October 2016
13	In cylinder flow modeling in a dual fuel spark ignition engine	Mohammadehsan Kavyani & S.Mostafa Agha Mirsalim	July 2016
14	Homogeneous Charge Compression Ignition (HCCI) Engines Combustion Timing Control	Mahmood Taghavi & S.Mostafa Agha Mirsalim	July 2016
15	ID simulation of the controlled cooling system with an electric water pump in EF7 engine	Kazem Mohammadi & S.Mostafa Agha Mirsalim	February 2016
16	Application of nanofluids in engine cooling	Mehrdad Najafian & S.Mostafa Agha Mirsalim	October 2015
17	Design optimization of high pressure injection tubes of high speed diesel engine	Mehdi Abiarkashani & S.Mostafa Agha Mirsalim	September 2015
18	Numerical simulation of HCCI combustion of biofuels by Computational Fluid Dynamics	Amin Yousefi & S.Mostafa Agha Mirsalim	November 2014
19	Esperimental Investigtion of combusition, Performance and Emission Characteristics Biodiesel in Light-Duty Diesel Engine	Hamidi Arman & S.Mostafa Agha Mirsalim	June 2014
20	validation of numerical analysis of direct injection using direct injector test rig	& S.Mostafa Agha Mirsalim	February 2014
21	condition monitoring of petroleum engine using neural network	Hossein Poursabagh Poursabagh Roknabadi & S.Mostafa Agha Mirsalim	January 2014
22	Equipping Ricardo single-cylinder engine by measurement devices and investigate the performance of engine	Mahmood Karaminejad & S.Mostafa Agha Mirsalim	December 2013
23	Theoretical investigation for production of hybrid thermoelectric-photovoltaic cell in electrical power generation	& S.Mostafa Agha Mirsalim	February 2011
24	Computer simulation of natural gas-diesel dual fuel combustion and validation of result through d87 engine	Ayatallah Gharehghani & S.Mostafa Agha Mirsalim	January 2010

Journal Papers

Portal Records

- 1 Mehdi Abiarkashani, Younes Alizadeh Vaghasloo, S.Mostafa Agha Mirsalim, "Optimal design of high-pressure fuel pipe based on vibrationresponse and strength using multi-objective genetic algorithm", STRUCTURAL AND MULTIDISCIPLINARY OPTIMIZATION, April 2021 Vol. 0, Num. 0, Page 1-22, April 2021,
- 2 Jamshid Moradi, آیت قره قانی, S.Mostafa Agha Mirsalim, "Numerical Comparison of combustion characteristics and cost between Hydrogen, Oxygen and their combinations addition on Natural Gas fueled HCCI engine", ENERGY CONVERSION AND MANAGEMENT, October 2020 Vol. 222, Num. 0, Page 113254-113254, October 2020,
- 3 Jamshid Moradi, آیت قره قانی, S.Mostafa Agha Mirsalim, "Numerical investigation on the effect of oxygen in combustion characteristics and to extend low load operating range of a natural-gas HCCI engine", APPLIED ENERGY, July 2020 Vol. 276, Num. 0, Page 115516-115516, July 2020,

- 4 M. Alipour, M. B. Ehghaghi, S. Mostafa Agha Mirsalim, F. Ranjbar, "Energy and exergy analysis of the dual-fuel RCCI engine by ozone-assisted combustion of a lean mixture", *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY*, January 2020 Vol. 0, Num. 0, Page 1-10, January 2020,
- 5 Hassan Khatamnejad, Shahram Khalilarya, Samad Jafarmadar, S. Mostafa Agha Mirsalim, Ayat Gharehghani, Seyed Omid Daei Niaki, "Experimental investigation on the effect of natural gas premixed ratio on combustion and emissions in an IDI engine", *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY*, September 2019 Vol. 0, Num. 0, Page 1-13, September 2019,
- 6 Mojtaba Farajpoor Khanaposhtani, S. Mostafa Agha Mirsalim, سيد شهاب الدين علويون, "Steady Simulation of the Flow inside the Internal Combustion Engine Turbocharger's Turbine", *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY*, February 2019 Vol. 50, Num. 6, Page 191-200, February 2019,
- 7 حسين خاتمي نژاد, Sh. Khalilarya, S. Jafarmadar, S. Mostafa Agha Mirsalim, "The effect of high-reactivity fuel injection parameters on combustion features and exhaust emission characteristics in a natural gas-diesel RCCI engine at part load condition", *INTERNATIONAL JOURNAL OF GREEN ENERGY*, October 2018 Vol. 0, Num. 0, Page 1-15, October 2018,
- 8 Iman Sohrabiasl, Mofid Gorji-Bandpy, Alireza Hajjalimohammadi, S. Mostafa Agha Mirsalim, "Effect of open cell metal porous media on evolution of high pressure diesel fuel spray", *FUEL*, June 2017 Vol. 206, Num. 0, Page 133-144, June 2017,
- 9 صمد جعفرپور, شهرام خليل آريا, حسن خاتمي نژاد, S. Mostafa Agha Mirsalim, "Effect of Intake Charge Temperature on Combustion and Emissions Characteristics in a Natural Gas-Diesel Reactivity Controlled Compression Ignition Engine", *Gas Processing Journal*, June 2017 Vol. 5, Num. 2, Page 69-78, June 2017,
- 10 Hashem Nowruzi, Parviz Ghadimi, S. Mostafa Agha Mirsalim, "A Numerical Study on Non-Reacting Spray Characteristics of Different Marine Diesel Fuel-Water Emulsion Blends", *FUEL*, January 2017 Vol. 188, Num. 0, Page 65-76, January 2017,
- 11 Vahid Esfahanian, Mohammad Mahdi Salahi, Ayatallah Gharehghani, S. Mostafa Agha Mirsalim, "Extending the lean operating range of a premixed charged compression ignition natural gas engine using a pre-chamber", *ENERGY*, January 2017 Vol. 119, Num. 0, Page 1181-1194, January 2017,
- 12 Mohammad Mahdi Salahi, Vahid Esfahanian, Ayatallah Gharehghani, S. Mostafa Agha Mirsalim, "Investigating the reactivity controlled compression ignition (RCCI) combustion strategy in a natural gas/diesel fueled engine with a pre-chamber", *ENERGY CONVERSION AND MANAGEMENT*, January 2017 Vol. 132, Num. 0, Page 40-53, January 2017,
- 13 Ayatallah Gharehghani, S. Mostafa Agha Mirsalim, Reza Hosseini Abardeh, "Effects of waste fish oil biodiesel on diesel engine combustion characteristics and emission", *RENEWABLE ENERGY*, October 2016 Vol. 101, Num. 0, Page 930-936, October 2016,
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- 16 H. Khatamnejad, S. Khalilarya, S. Jafarmadar, N. R. Banapurmath, S. Mostafa Agha Mirsalim, "Investigation of combustion and emissions of natural gas-diesel dual-fuel PPCI engine", *FUEL*, January 2016 Vol. 161, Num. 0, Page 13-19, January 2016,
- 17 Mahdi Baloo, Bijan Mollaei Dariani, Mehdi Akhlaghi, S. Mostafa Agha Mirsalim, "Effects of pressure and temperature on laminar burning velocity and flame instability of iso-octane/methane fuel blend", *FUEL*, December 2015 Vol. 170, Num. 0, Page 235-244, December 2015,
- 18 Mohammad Momeni Movahed, Hassan Basirat Tabrizi, S. Mostafa Agha Mirsalim, "Normalized Knock Intensity Determination Based on the Knock Sensor Analysis to Have a Fixed Detection Threshold at Different Operating Conditions", *JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME*, November 2015 Vol. 138, Num. 6, Page 1-9, November 2015,

- 19 Hamidi Arman, S. Mostafa Agha Mirsalim, Barat Ghobadian, Amir Hossein Parivar, Saeid Abdolmaleki, "Effect of soybean biodiesel on performance and emissions of a high-speed compression-ignition engine", July 2015 Vol. 15, Num. 5, Page 405-411, July 2015,
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- 21 Ayatallah Gharehghani, Reza Hosseini Abardeh, S. Mostafa Agha Mirsalim, S. Ali Jazayeri, Talal F Yusaf, "An experimental study on reactivity controlled compression ignition engine fueled with biodiesel/natural gas", ENERGY, June 2015 Vol. 89, Num. 0, Page 558-567, June 2015,
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- 23 Hashem Nowruzi, Parviz Ghadimi, S. Mostafa Agha Mirsalim, "Numerical investigation of non-reacting spray characteristics of heavy fuel and alternative fuel under high injection pressure", June 2014 Vol. 0, Num. 34, Page 3-15, June 2014,
- 24 Amirhossein Moshrefi, Majid Shalchian, S. Mostafa Agha Mirsalim, Mohammad Momeni Movahed, Amirhossein Parivar, "Knock detection based on main vibration frequencies analysis in spark ignition turbocharged engine", June 2014 Vol. 34, Num. 34, Page 17-27, June 2014,
- 25 Mahdi Yousefi Fard, Parviz Ghadimi, S. Mostafa Agha Mirsalim, "Numerical simulation of biodiesel spray under ultra-high injection pressure using OpenFOAM", JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, June 2014 Vol. 0, Num. 0, Page 0-0, June 2014,
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- 27 M. Izadi Najafabadi, S. Mostafa Agha Mirsalim, Vahid Hosseini, Shahabedin Alaviyoun, "Experimental and numerical study of piston thermal management using piston cooling jet", JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, March 2014 Vol. 28, Num. 3, Page 1079-1087, March 2014,
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- 35 Mohammad Momeni Movahed, Hassan Basirat Tabrizi, S. Mostafa Agha Mirsalim, M. Jamali, "Determination of knock borderline ignition timing in turbocharged spark ignition engines", September 2012 Vol. 27, Num. 27, Page 33-45, September 2012,

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- 37 Ayatallah Gharehghani, S. Mostafa Agha Mirsalim, S.A. Jazayeri, "Numerical and Experimental Investigation of Combustion and Knock in a Dual Fuel Gas/Diesel Compression Ignition Engine", Journal of Combustion, March 2012 Vol. 2012, Num. 504590, Page 1-10, March 2012,
- 38 Raouf Mobasheri, Zhijun Peng, S. Mostafa Agha Mirsalim, "Analysis the effect of advanced injection strategies on engine performance and pollutant emissions in a heavy duty DI-diesel engine by CFD modeling", INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW, January 2012 Vol. 33, Num. 1, Page 59-69, January 2012,
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- 51 Maryam Bakhtiari-Nejad, S. Mostafa Agha Mirsalim, Firooz Bakhtiari Nejad, Mehrdad Ghamari, "Determination of Optimal Timing schedule for Electromagnetic Intake and Exhaust Valve of the Paykan Engine", The Journal of Engine Research, June 2005 Vol. 2, Num. 5, Page 12-22, June 2005,

Conference Papers

- 1 Firooz Bakhtiari Nejad, Mirkamal Seyedrasouli, S. Mostafa Agha Mirsalim, "DYNAMIC MODELING AND CONTROL OF A THROTTLE VALVE IN SPARK IGNITION INTERNAL COMBUSTION ENGINES ", ASME 2017 International Mechanical Engineering Congress and Exposition IMECE2017 November 3-9, 2017, Tampa, Florida, USA, November 2017
- 2 Mirkamal Seyedrasouli, Firooz Bakhtiari Nejad, S. Mostafa Agha Mirsalim, "Identification and simulation of an electronic throttle valve of internal combustion engine ", 25th Annual International Mechanical Engineering Conference, May 2017
- 3 Sajjad Mohammadnejad Daryani, Ehsan Amani, Reza Hosseini Abardeh, S. Mostafa Agha Mirsalim, Iman Chitsaz, Ali Kamalie Iglie, "Simulation of the dual-fuel diesel-CNG RCCI engine ", 25th Annual International Mechanical Engineering Conference, May 2017
- 4 Masoud Kahnooji, S. Mostafa Agha Mirsalim, Seyyed Shahaboddin Alaviyoun, "Review of the types of turbochargers and improve the whole-engine simulation codes with regard to heat transfer and mechanical loss in the turbocharger ", 4th National & 2nd International Conference on Applied Research in Electrical, Mechanical & Mechatronics Engineering, February 2017
- 5 Hasan Khatamnezhad, Shahram Khalilarya, Samad Jafarmadar, Nagaraj Banapurmath, S. Mostafa Agha Mirsalim, "Investigation of Combustion and Emissions of Natural Gas-Diesel Dual-Fuel PPCI Engine ", 9th International Conference on Internal Combustion Engines & Oil, February 2016
- 6 Mahdi Baloo, Bijan Mollaei Dariani, Mehdi Akhlaghi, S. Mostafa Agha Mirsalim, "Laminar flame speed correlation for methane-isooctane fuel blend ", 8th international conference on Internal combustion engines and Oil, February 2016
- 7 Ayatallah Gharehghani, S. Mostafa Agha Mirsalim, Ali Jazayeri, Reza Hosseini Abardeh, "Experimental study on low temperature combustion dual fuel biodiesel/natural gas engine ", ASME 2015 Internal Combustion Engine Division Fall Technical Conference, November 2015
- 8 Ayatallah Gharehghani, S. Mostafa Agha Mirsalim, Reza Hosseini Abardeh, S. A. Jazayeri, "Reactivity controlled compression ignition(RCCI) combustion strategy: a solution to reduce fuel consumption and emission level ", 8th International Conference on Internal Combustion Engines and Oil, February 2014
- 9 Amin Yousefi, Ayatallah Gharehghani, S. Mostafa Agha Mirsalim, "Study of Natural Gas/DME homogeneous charge compression ignition with use of multi-dimensional CFD model and detailed chemical kinetics ", 8th International Conference on Internal Combustion Engines and Oil, February 2014
- 10 Afshin Ali Pour, Ayatallah Gharehghani, S. Mostafa Agha Mirsalim, "Downsizing of internal combustion engines, advantages & limitations ", 8th International Conference on Internal Combustion Engines and Oil, February 2014
- 11 Mahdi Yousefi Fard, Parviz Ghadimi, S. Mostafa Agha Mirsalim, " - ", 14th Marine Industries Conference, December 2012
- 12 Alireza Hajjalimahammadi, S. Mostafa Agha Mirsalim, "Design, Manufacture and Testing of a Gas Direct Injection Injector Model for Use in Constant Volume Combustion Chamber ", 1st National Conference on Internal Combustion Engines, November 2012
- 13 Ayatallah Gharehghani, S. Mostafa Agha Mirsalim, Reza Hosseini Abardeh, K. Zaker, "Investigation of the effect of additives to natural-gas on heavy-duty SI engine combustion characteristics ", ASME 2012 Internal Combustion Engine Division Spring Technical Conference ICES2012, May 2012
- 14 Alireza Hajjalimahammadi, S. Mostafa Agha Mirsalim, "Numerical Investigation of Influence of Injector Nozzle Geometry on Formation of Direct Injection Gaseous Fuel Jet in a Constant Volume Chamber ", 7th international conference on internal combustion engine ICICE-7, November 2011
- 15 Mohammad Ali Ehteram, Hassan Basirat Tabrizi, S. Sh. Alaviyoun, Mehdi Ahmadi, S. Mostafa Agha Mirsalim, "Experimental study of pressure fluctuation and friction waste due to pumping effect in crankcase chamber ", 7th international conference on internal combustion engine ICICE-7, November 2011
- 16 Ayatallah Gharehghani, S. Mostafa Agha Mirsalim, Reza Hosseini Abardeh, S. A. Jazayeri, "Developing a New CFD Model to Simulate the Combustion of Dual Fuel Engine ", ICICE-7, November 2011
- 17 Morteza Fathi, S. Mostafa Agha Mirsalim, Mojtaba Keshavarz, Mohsen Pourfallah, Javad Kheyrollahi, "Experimental Investigation of rail pressure and injection timing effects on performance and emission characteristics of a common rail heavy duty diesel engine ", 7th international conference on internal combustion engine ICICE-7, November 2011

- 18 Ayatallah Gharehghani, S.A. Jazayeri, S. Mostafa Agha Mirsalim, M. Ghanbari, "Numerical and Experimental Investigation on Performance of Dual Fuel D87 Engine ", ASME 2010 International Mechanical Engineering Congress & Exposition IMECE2010, November 2010
- 19 S. Mostafa Agha Mirsalim, Alireza Hajjalimahmadi, Mohammad Ali Ehteram, Vahid Fakhari, "Exergy Analysis of a Compressed Natural Gas Turbocharged Spark Ignited Engine ", ASME 2010 10th Biennial Conference On Engineering Systems Design and Analysis ESDA2010, July 2010
- 20 Mohammad Izadi Najafabadi, S. Mostafa Agha Mirsalim, "Experimental and Numerical Analysis of Piston Cooling Jets Performance ", ASME 2010 10th Biennial Conference On Engineering Systems Design and Analysis ESDA2010, July 2010
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- 23 S. Mostafa Agha Mirsalim, Seyed Sadegh Forghani Dehnavi, "a numerical and experimental investigation on oil settling in C.N.G feeding system in a C.N.G engine ", 6th international congress on internal combustion engines, November 2009
- 24 Hamidreza Baghaee Kashi, S. Mostafa Agha Mirsalim, Mohammad Javad Sanjari, Gevork B. Gharehpetian, "fuzzy logic based control of a dual functional series compensator to limit the fault current in distribution systems with DG units ", , December 2008
- 25 Hamidreza Baghaee Kashi, S. Mostafa Agha Mirsalim, Mohammad Javad Sanjari, Gevork B. Gharehpetian, "Harmonic optimization in multi level inverter using harmony search algorithm ", , December 2008
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- 27 Ayatallah Gharehghani, S. Mostafa Agha Mirsalim, "Various methods to reduce the NOx in diesel engines ", 5th International conference on internal combustion engines, November 2007
- 28 Omid Samimi Abiane, Fathollah Ommi, S. Mostafa Agha Mirsalim, "Simulation and Experimental Study on Swirling and tumbling Motions of SI Engine ", 5th international conference on internal combustion engine ICICE-5, November 2007
- 29 [en-name N/A], S. Mostafa Agha Mirsalim, [en-name N/A], "Availability analysis of CHP systems and apply it to electrical power generation ", , May 2007

Inventions/Patents

#	Invention title	Reg. number	Country	contributors	Reg. date	Exp. date
1	Reactivity Controlled Compression ignition (RCCI) Combustion strategy in a natural gas / diese/ fuoled engine with a Pre.chomper	90389			2016/11/1	2035/04/1