Ramin Barzegar, Ph.D.
Assistant Professor
Atılım University
Department of Automotive Engineering
06830 İncek, Gölbaşı, Ankara/TURKEY
Ramin.barzegar@atilim.edu.tr
Tel: +90 312 586 87 15

PERSONAL

Date of Birth	1985
Place of Birth	Parsabad

EDUCATION

2014-2019	Middle East Technical University, Mechanical Engineering, Ph.D.
2007-2010	Urmia University, Mechanical Engineering, M.S.
2003-2007	Urmia University, Mechanical Engineering, B.S.

ACADEMIC POSITIONS

December/2019	Assistant Professor, Department of Automotive Engineering, Atilim University, Turkey
October/2010- August/2014	Academic Staff, Department of Mechanical Engineering, Islamic Azad University, Parsabad Moghan, Iran

ADMINISTRATIVE DUTIES

December/2011- August 2014	Head of Young Researchers and Elite Club, Islamic Azad University, Parsabad Moghan
June/2012- August/2014	Member of Research Council, Islamic Azad University, Parsabad Moghan

HONORS&AWARDS

1	Awarded as Top Researcher at Islamic Azad University, Parsabad Moghan, 2012

RESEARCH INTERESTS

1	Internal Combustion Engines Modeling and Analysis
2	Emission Formation in Internal Combustion Engines
3	Computational Fluid Dynamics (CFD)
4	Coal and Biomass Combustion
5	Oxy-fuel Combustion
6	SO_2 Capture in Coal Combustion

PUBLICATIONS

1	**Ramin Barzegar**, Ahmet Yozgatligil, Aysel Atimtay, Hayati Olgun, *"TGA and kinetic study of different torrefaction conditions of wood biomass under air and oxy-fuel combustion atmospheres"*, Journal of the Energy Institute, Corrected Proof, In Press, Available online 4 September 2019
2	**Ramin Barzegar**, Ahmet Yozgatligil, Aysel T. Atimtay, *"Combustion characteristics of Turkish lignites at oxygen-enriched and oxy-fuel combustion conditions"*, Journal of the Energy Institute, Volume 92, Issue 5, October 2019, Pages 1440-1450
3	**Ramin Barzegar**, Sevil Avsaroglu, Ahmet Yozgatligil, Aysel T. Atimtay, *"Pyrolysis characteristics of Turkish lignites in N2 and CO2 environments"*, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Volume 40, 2018 - Issue 20, Pages 2467-2475
4	Arash Nemati, **Ramin Barzegar**, Shahram Khalilarya, *"The effects of injected fuel temperature on exergy balance under the various operating loads in a DI diesel engine"*, *International Journal of Exergy*, Vol 17(1) pp: 35-53, 2015
5	Arash Nemati, Vahid Fathi, **Ramin Barzegar**, Shahram Khalilarya, *"Numerical investigation of the effect of injection timing under various equivalence ratios on energy and exergy terms in a direct injection SI hydrogen fueled engine"*, *International Journal of Hydrogen Energy*, Vol 38 pp: 1189-1199, 2013
6	**Ramin Barzegar**, Sina Shafee, and Shahram Khalilarya, *"Computational Fluid Dynamics Simulation of the Combustion Process, Emission Formation and the Flow Field in an In-direct Injection Diesel Engine"*, *THERMAL SCIENCE*, Volume 17, No.1, pp: 11-23, 2013
7	**Ramin Barzegar**, Ali Mirizadeh, *"Three Dimensional Modeling of Combustion Process and Emission Formation in a Spark Ignition Engine"*, *World Applied Sciences Journal*. 18 (7), pp: 890-895, 2012
8	Arash Nemati, **Ramin Barzegar**, Shahram Khalilarya, Hassan Khatamnezhad, *"Decreasing the Emission of a Partially Premixed Gasoline Fueled Compression Ignition Diesel Engine by Means of Injection Characteristics and Exhaust Gas Recirculation"*, *THERMAL SCIENCE*, Volume 15, No. 4, pp. 939-952, 2011
9	Samad Jafarmadar, Sina Shafee, **Ramin Barzegar**, *"Numerical Investigation of the Effect of Fuel Injection Mode on Spray/wall Interaction and Emission Formation in a Direct Injection Diesel Engine at Full Load State"*, *THERMAL SCIENCE*, Volume 14, Issue 4, pp: 1039-1049, 2010
10	Samad Jafarmadar, Shahram Khalilarya, Sina Shafee, **Ramin Barzegar**, *"Modelling the Effect of Spray/wall Impingement on Combustion Process and Emission of DI Diesel Engines"*, *THERMAL SCIENCE*: Volume 13, No. 3, pp. 23-34, 2009
11	Samad Jafarmadar, **Ramin Barzegar**, Sina Shafee, *"Three-Dimensional Modeling of Combustion Process, Soot and NOx formation in a Direct-injection Diesel Engine"*, *The Journal of Engine Research*, Volume 14, Spring2009

PROJECTS

1	Project Investigator in TUBİTAK 1003- 113M003 Joint Research Project, *Investigation of Lignite and Torrefied Biomass in a Thermogravimetric Analyzer (TGA) and Circulating Fluidized Bed under Oxy-Fuel Combustion Conditions*, METU, Turkey, Sep. 2014- Mar. 2017
2	Project Manager in "*Numerical Investigation of the Effects of Equivalence Ratio and Injection Timing on First- and Second-Law of Thermodynamics Terms in Hydrogen Fueled Direct Injection Spark Ignition Engine*" Funded by Islamic Azad University of Iran, Parsabad Moghan Branch, 2012-2013
3	Project Investigator in "*Numerical Investigation of the Effects of injected fuel temperature on the thermodynamics first- and second-law terms under the*

	various operating loads in a DI diesel engine" Funded by Islamic Azad University of Iran, Miyaneh Branch, February 2013-2014

CONFERENCE PRESENTATIONS

1	Sevil Avsaroglu, **Ramin Barzegar**, Barıs Kaymak, Ahmet Yozgatlıgil, Aysel T. Atimtay, *"Investigation of Combustion Kinetics of two Turkish Lignites under Oxy-Fuel Combustion Conditions by Thermal Gravimetry Analysis"*, 6th Workshop on Cofiring Biomass with Coal, 14-15 Sep. 2016, Sardinia, Italy
2	**Ramin Barzegar**, Mastaneh Hoseinzadeh, Shahram Khalilarya, *"Investigation of the Effects of Air-cell Creation and Cylinder Walls Insulation in a DI Diesel Engine",* ISME 2013, K.N.Toosi University, Tehran, Iran, 2013
3	Samad Jafarmadar, **Ramin Barzegar**, Sina Shafee, Shahram Khalilarya, *"Numerical Investigation of the Effect of Fuel Preheating on Combustion Process and Emission in a Direct Injection Diesel Engine"*, 6th CICE, Tehran, International Olympic Hotel, 2009

CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	80
H-index (ISI Web of Science):	5

COURSES GIVEN

1	Internal Combustion Engines
2	Emission and Exhaust Control
3	Thermodynamics I
4	Fluid Mechanics
5	Automotive Power Generation Technology