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Education

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Ferdowsi University of Mashhad

PhD Student, Department of Mechanical Engineering, Faculty of Engineering
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Master of Engineering, Department of Mechanical Engineering, Faculty of Engineering
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University of Guilan

Bachelor of Engineering, Department of Mechanical Engineering, Faculty of Engineering
Rasht, Iran

Sep. 2000- Sep. 1996

Mola-Mozafar Magnet Highschool
Mathematics-Physics Diploma,
Gonabad, Khorāsān-e Razavi, Iran

Journal Publications:

- Mohammad Moghiman, Ali Saeedi, Mohammad Javadi, Vahid Etminan, "Measurements and modeling of soot and CO pollutant emissions in a large oil fired furnace", Arabian Journal for Science and Engineering(AJSE), Vol. 34, Number 2B, 2009.
- M. Moghiman, M. R. Zangoee, A. Saeedi, "Numerical Modeling of NO_x Formation in Pulse Combustor Using Thermal and Prompt Models", ICASTOR Journal of Engineering, Vol. 2, No. 3(2), May 2009.
- AM. Ghasemi, A. Saeedi, M. Moghiman, "Application of multi-objective optimization for pollutants emission control in an oil-fired furnace", Journal of the Chinese Society of Mechanical Engineers, Vol.32, No.4, 2011 .
- Ghodrat Ghassabi, Ali Saeedi, Mohammad Moghiman, "Modification of Arrhenius Model for Numerical Modelling of Turbulent Flames", J. Basic. Appl. Sci. Res., 2(5)4820-4826, 2012 .

- S.H. Pourhoseini, A. Saeedi, M. Moghiman, "Experimental and numerical study on the effect of soot injection on NO_x reduction and radiation enhancement in a natural gas turbulent flame", *Arabian Journal for Science and Engineering*, Vol. 38, 2013 .
- A. Saeedi, M. Moghiman, "Kerosene Wick Lamp Flame Deformation in Gradient Magnetic Fields", *Applied Physics Letters*, Vol.104, No.11, 2014.
- A. Saeedi, M. Moghiman, " Influence of Gradient Magnetic Field on Quenching and Elongating Diffusion Flame ", *International Journal of Innovation in Science and Mathematics*, Volume (2), No (1), Year (2014-1).
- Poorhoseinni H, Saeedi A, Moghiman M. Experimental and Numerical Investigation of the Inlet Air Swirl Angle Effects on Temperature Profile and CO, NO Pollutants. *JEM*. 2012; 2 (1) :32-39.
- Saeedi A. Kinetic Effect of Carbon Particle Size on Species Emissions and Characteristics of Methane-Soot Combustion. *JEM*. 2018; 8 (3) :50-61.
- A. Saeed, J. Khade, H. Raznahan, " Study the Effects of Uniform Magnetic Fields and Pressures on the Concentration of Main Species of Methane Combustion", *Amirkabir J. Mech. Eng.*, 50(2) (2018) 107-110.
- A. Saeedi, R. Jalali Mehrabad, " Effects of Adding Gaseous Soot and Methane Incomplete Combustion Products on Detailed Chemical Kinetics Combustion of Methane and Pollutants", *Amirkabir J. Mech. Eng.*, 50(6) (2018) 411-414.
- Ali Saeedi, Alireza Jafari Beinabaj, Javad Khadem, " Numerical modeling of magnetic field effects on flame shape, temperature and CO₂, CO and NO emission of laminar diffusion combustion of methane", DOI: [10.22060/mej.2018.13056.5518](https://doi.org/10.22060/mej.2018.13056.5518), 2018.
- A.Saeedi, J. Khadem, H.Raznahan, "An Equilibrium Thermodynamics Investigation on Influence of Magnetic Field Work on Molar Fraction of Main Products of Methane–Air Reaction", *Tabriz J. Mech. Eng.*, 48(4) (2018) 171-178.

Conference Papers:

- Saeedi, M. Moghiman, M. M. Heyhat, "Numerical study of mist cooling in a turbulent impinging jet", *Proceedings of the 1st WSEAS international conference on Finite differences - finite elements -finite volumes - boundary elements*, Malta, 2008.
- A. Saeedi, m. Moghiman, M.M. Heyhat, " Numerical study of the effect of mist on heat transfer in an impinging jet on constant temperature surface", *ISME2009*, Tehran, Iran.
- M. Bababeik, A. Saeedi, M. Moghiman, "Comparison between difference turbulent models to predict the flow field and temperature of a liquid fuel cylindrical combustion chamber", *ISME2009*, Tehran. Iran.
- M. Bababeik, A. Saeedi, M. Moghiman, "Numerical study and comparison of combustion models to predict the temperature of a liquid fuel cylindrical combustion chamber", *FD2009*, Babol, Iran.
- A. Saeedi, S.H. Pourhoseini, M. Moghiman, "Numerical simulation of droplet movement in a turbulent impinging jet on a flat plate", *ISME2011*, Birjand, Iran.

- S.H. Pourhoseini, A. Saeedi, Gh. Ghasabi, M. Moghiman, "Experimental and Numerical investigation of inlet air swirl angle on NO_x, CO and, soot formation in cylindrical furnace", ISME2011, Birjand, Iran.
- A. Saeedi, M. Moghiman, "The effects of droplet size on heat transfer in a turbulent mist impinging jet", ITSC2011, Mashhad, Iran.
- A. Saeedi, R. Jalali Mehrabad, "Chemical kinetics study of methane-air combustion with soot and incomplete combustion products", 6th Combustion Conference of Iran, 2016, Mashhad, Iran.
- A. Saeedi, "Diffusion flame study in magnetic field", ISME2016, Yazd, Iran.
- A. Saeedi, A.H. Hoseinzadeh, R. Jalali Mehrabad, "Numerical consideration of double swirler effects on temperature and NO emission in methane-air diffusion flame", Aero2017, Tehran, Iran.
- A. Saeedi, R. Jalali Mehrabad, A.H. Hoseinzadeh, "Chemical kinetics study of Methane-Hydrogen-Air combustion with soot additive and methane combustion process", AERO2017, Tehran, Iran.
- H. Raznahan, J. Khadem, A. Saeedi, "Effects of uniform magnetic field on equilibrium energy of methane combustion products", AERO2017, Tehran, Iran.
- H. Raznahan, J. Khadem, A. Saeedi, "Pollutant production of methane combustion in uniform magnetic field by means of thermodynamic equilibrium", ISME2017, Tehran, Iran.
- A. Saeedi, "Chemical kinetics study of hydrogen addition to dimethyl ether combustion and temperature and pollution change", ISME2017, Tehran, Iran.
- A. Saeedi, R. Gholami, R. Motalebi Pour, "Comparison of different heat exchanger configuration in a single effect absorption cycle by lithium bromide and lithium chloride absorbents", ISME2017, Tehran, Iran.
- A. Saeedi, A.H. Hoseinzadeh, " Numerical consideration of double swirler effects on CO and NO emission in methane-air diffusion flame", ISME2017, Tehran, Iran.
- A. Saeedi, R. Jalali Mehrabad, A.H. Hoseinzadeh, "Chemical kinetics study of Methane-graphite-air combustion and NO, CO, and temperature change", ISME2017, Tehran, Iran.
- N. Alahdadi, R. Jalali Mehrabad, A. Saeedi, "Numerical modeling of Hydrogen production by partial oxidation of Methane and platinum catalyst", HFCC2017, Tehran, Iran.
- A. Saeedi, R. Jalali Mehrabad, A.H. Hoseinzadeh, "One-dimensional consideration of adding soot
- On flame stability and productions mole fraction", FD2017, Shahroud, Iran.
- A. Saeedi, A.H. Hoseinzadeh, R. Jalali Mehrabad, "Effects of turbulence models on combustion and emission of Methane diffusion flame and air swirler", FD2017, Shahroud, Iran.
- A.R. Jafari Beinabaj, J. Khadem, A. Saeedi, "Effect of non-uniform magnetic field on Methane diffusion flame", FD2017, Shahroud, Iran.
- A.R. Jafari Beinabaj, J. Khadem, A. Saeedi, " Effect of non-uniform magnetic field on Methane diffusion flame temperature", the 2nd National Conference on Modern Approaches in Mechanical Engineering, Malayer, Iran.
- A. Saeedi, N. Alahdadi, "Modeling of the effects of temperature, porosity, Methane mass flow rate, and inlet Oxygen on Hydrogen production by Patinum catalytic partial oxidation of Methane", FCCI2018, Tehran, Iran.
- A. Saeedi, R. Jalali Mehrabad, A.H. Hoseinzadeh, "Optimization of Methane hybrid flame by NSGAI in CANTERA", FCCI2018, Tehran, Iran.
- A. Saeedi, N. Alahdadi, "effects of CO and H₂ additives on Hydrogen production by partial oxidation of Methane and Rh/Al₂O catalyst", ISME2019, Tehran, Iran.
- A. Saeedi, N. Alahdadi, "Numerical simulation of synthesis gas production by partial oxidation of Methane and Pd/Al₂O catalyst", ISME2019, Tehran, Iran.
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