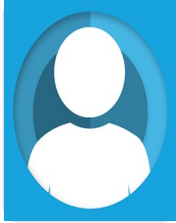




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Supervised PhD Theses

#	Thesis title	By	Date
1	: 3-D Numerical Simulation of Planar Hydrogen Jet Flame by LES Method	Yashar Afarin & Sadegh Tabejamaat	January 2013
2	Effect of Flow Dynamics and Chemical Mechanisms on Flame in HITAC	Amir Mardani & Sadegh Tabejamaat	December 2010

Supervised MSc Theses

#	Thesis title	By	Date
1	Experimental Study of Combustion Characteristics of Hydrocarbon Fuels Using Meso-Scale Reactors	Soroush Sheykhbaglou & Sadegh Tabejamaat	February 2020
2	Experimental Study of Partial Pre-mixed Flame Dynamics in Meso-scale Reactors	Ali Zargarbashi & Sadegh Tabejamaat	February 2019
3	Experimental study on methane partially-premixed combustion in micro-scale reactors	Bahram Mohammadzadeh & Sadegh Tabejamaat	February 2018
4	(study , design and fabrication of typical LOW NOX burner(LNB	Saeed Azizabadi Farahani & Sadegh Tabejamaat	February 2018
5	Design and construction of electric thrusters for attitude determination of satellites and orbital transfer	Saleh Bashiri & Sadegh Tabejamaat	October 2017

6	experimental study of flame dynamics in micro-scale reactors	Maryam Yeganeh & Sadegh Tabejamaat	July 2016
7	Analytical Study of Combustion in Micro Scale Combustors	Esmail Mohammadi Khalf Badam & Sadegh Tabejamaat	February 2016
8	Study of NOx production mechanism of Swirl Flame	Nafiseh Jalalatian & Sadegh Tabejamaat	February 2015
9	Numerical study of stability of methane flame in Micro-combustion chamber	Zeinab Javanbakht & Sadegh Tabejamaat	February 2015
10	Experimental study of pollution generation in HiCOT combustion	Reza Bagheri & Sadegh Tabejamaat	February 2015
11	Experimental study of stability of Methane flame in Micro-Combustion chamber	Yasaman Farsiani & Sadegh Tabejamaat	June 2014
12	Numerical simulation of non-premixed turbulent flame	Mohamadebrahim Fathi Azarkhavarani & Sadegh Tabejamaat	September 2013
13	experimental study of development of hicot technology for low heat capacity	Mostafa Altafi & Sadegh Tabejamaat	February 2013
14	Experimental study of Combustion In Micro-chamber	Soroush Sarrafan Sadeghi & Sadegh Tabejamaat	February 2013
15	Study on oxygen combustion in HiCoT condition	Mohamad Hassan Moghadasi & Sadegh Tabejamaat	July 2012
16	The effect of flow swirl on stability of diffusion flame	Emad Rajabivincheh & Sadegh Tabejamaat	January 2012
17	Design and fabrication of HTAC combustion test-stand and conducting primary experiment	Seyed Kambiz Abdollah & Sadegh Tabejamaat	October 2011
18	Numerical study of Combustion in Micro burner	Jalal Zarvandi & Sadegh Tabejamaat	January 2010
19	Experimental study of the effect of swirl flow on flame stability from practical point of view	Amir Rowhani & Sadegh Tabejamaat	January 2010
20	STUDY ON THE EFFECT OF AIR DILUTION AND PREHEATING IN DIFFUSION FLAME	Babak Kashir Taloori & Sadegh Tabejamaat	February 2008
21	Numerical study on ignition of fuel droplet array in air	Sadjad Ranjbaran & Sadegh Tabejamaat	February 2008
22	EXPERIMENTAL STUDY ON DIFFUSION FLAME IN COUNTER FLOW	Yashar Afarin & Sadegh Tabejamaat	February 2007
23	Experimental and Analytical Study on HRS Technology	Mohammadreza Baig Mohammadi & Sadegh Tabejamaat	February 2007
24	Development of laboratory of fuel and combustion and study on combustion of diffusioflame	Amir Mardani & Sadegh Tabejamaat	January 2006

Books

#	Title	Author(s)	Publisher country	publication date	version
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Portal Records

Journal Papers

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- 1 Mohammadreza Nozari, Sadegh Tabejamaat, Hasan Sadghizadeh Allahabad, Majid Aghayari, "Experimental investigation of the effect of gaseous fuel injector geometry on the pollutant formation and thermal characteristics of a micro gas turbine combustor", ENERGY, June 2021 Vol. 235, Num. 121372, Page 1-9, June 2021,
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- 5 Ali Zargarbashi, Sadegh Tabejamaat, Soroush Sarrafan Sadeghi, Soroush Sheykhbaglou, "Experimental Study of the Effect of Inlet Flow Characteristics and Chamber Length on Partially Premixed Flame Dynamics, in the Mesoscale Cylindrical Reactor of Constant Diameter with Different Lengths", Modares Mechanical Engineering, December 2020 Vol. 20, Num. 12, Page 2697-2705, December 2020,
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Conference Papers

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- 1 Sadegh Tabejamaat, Satoshi Kadowaki, K.D. Kunkuma A. Somarathne, Akihiro Hayakawa, Hideaki Kobayashi, "Study of Instability and Dynamic Behavior of NH₃-H₂ Premixed Flame ", 38th International Symposium on Combustion, January 2021
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- 6 Majid Aghayari, Sadegh Tabejamaat, Mohammadreza Nozari, Hasan Sadghizadeh Allahabad, "Numerical study of the effect of swirler on combustion chamber ", FCCI 2019, March 2020
- 7 Mohammadreza Nozari, Sadegh Tabejamaat, Hasan Sadghizadeh Allahabad, Majid Aghayari, "Effect of fuel injector on the performance of a gas turbine combustor ", AERO 2020, February 2020
- 8 Hasan Sadghizadeh Allahabad, Sadegh Tabejamaat, Mohammadreza Nozari, Majid Aghayari, "Modeling and analytical behavior of combustion in gas turbine using methane fuel by numerical and network methods methods ", The 18th International conference of irainian Aerospace society, February 2020
- 9 Bahram Mohammadzadeh, Sadegh Tabejamaat, Soroush Sarrafan Sadeghi, Amin Aramesh, "Investigation of flow rate and mixing percentage on methane-oxygen micro flame regime from pre-mixed to non-premixed mixture in reactors with different lengths ", The seventh conference of fuel and combustion of Iran, February 2018
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- 29 Babak Kashir Taloori, Sadegh Tabejamaat, "A NUMERICAL INVESTIGATION OF TURBULENCE-CHEMISTRY-RADIATION INTERACTION IN CH₄/H₂/N₂ JET DIFFUSION FLAMES ", 8th Mediterranean Combustion Symposium MCS-8, September 2013
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- 33 Mohammadreza Baigmohammadi, Sadegh Tabejamaat, Jalal Zarvandi, "NUMERICAL STUDY OF THE EFFECTS OF HEAT TRANSFER METHODS ON CH₄/(CH₄+H₂)-AIR PREMIXED FLAMES IN A MICRO-STEPPED TUBE ", 7th Mediterranean Combustion Symposium, September 2011
- 34 Yashar Shoraka, Sadegh Tabejamaat, "NUMERICAL INVESTIGATION ON THE EFFECT OF INCIDENT SHOCK WAVE ON MIXING AND COMBUSTION OF TRANSVERSE HYDROGEN INJECTION IN SUPERSONIC AIRSTREAM ", 7th Mediterranean Combustion Symposium, September 2011
- 35 Amir Mardani, Sadegh Tabejamaat, "NO_x Formation in H₂-CH₄ Blended Flame Under Mild Condition ", 7th Mediterranean Combustion Symposium, September 2011
- 36 Yashar Afarin, Sadegh Tabejamaat, Amir Mardani, "Large Eddy Simulation Study of H₂/CH₄ Flame Structure at Mild Condition ", 7th Mediterranean Combustion Symposium, September 2011
- 37 Sadegh Tabejamaat, Farshad Noravesh, Mohammadreza Baig Mohammadi, "Proper Orthogonal Decomposition Analysis of HiTAC Processes ", 8TH-ASPACC-2010, December 2010
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- 41 Yashar Shoraka, Sadegh Tabejamaat, Aydin Samadi Ghoshchi, "Numerical Study on Combustion and Mixing Enhancement of Cavity Flameholders in a Supersonic Combustor ", 13th Annual and 2nd International Fluid Dynamics Conference, October 2010
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- 44 Sadegh Tabejamaat, [en-name N/A], Jalal Zarvandi, "Numerical simulation of CH₄ air pre mixed combustion in a micro tube burner subject to preheating " , , May 2009
- 45 [en-name N/A], Sadegh Tabejamaat, Amir Mardani, "Numerical Study on the spray combustion in high temperature air combustion " , , January 2008
- 46 Sadegh Tabejamaat, "Study on Dilution Effect of N₂ and CO₂ on Extinction of Counter Flow Flame " , The Fifth Mediterranean Combustion Symposium, September 2007
- 47 Sadegh Tabejamaat, "Numerical Study on Low and High Temperature Air Combustion Using Different Chemical Mechanism " , The Fifth Mediterranean Combustion Symposium, September 2007
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- 50 Hamed Aghajani, Nasser Seraj Mehdizadeh, Sadegh Tabejamaat, "Analytical Modeling of Flame Kernel Formation and Development in SI Engines " , , June 2006
- 51 Sadegh Tabejamaat, Abolghasem Mesgarpour Tousi, "study on spray combustion of hydrogen-oxygen in high pressure chamber " , , October 2005
- 52 Mohammad Akhgari, Sadegh Tabejamaat, Nasser Seraj Mehdizadeh, "Numerical Study of the Effect of Injection Modeling on Mixing and Flame Stability in Supersonic Combustion " , , October 2005
- 53 Sadegh Tabejamaat, "numerical study of the effect of injection modeling on mixing and flame stability in supersonic combustion " , , July 2005
- 54 Mohammad Pezeshki, Sadegh Tabejamaat, "numerical study on the effect of pressure on expansion flow using full reaction mechanism of H₂O₂ " , , June 2005
- 55 Sadegh Tabejamaat, Mahdi Jangi, [en-name N/A], "Prediction of droplet sizes and combustion chamber pressure effect on liquid gas spray " , , August 2004
- 56 Sadegh Tabejamaat, Mohammad Pezeshki, "High order numerical study on supersonic reactive expansion in a nozzle " , , June 2004
- 57 Sadegh Tabejamaat, Mahdi Jangi, "Numerical study on liquid-Gas spray " , , November 2003
- 58 Sadegh Tabejamaat, Takashi. Niioka, Hideaki Kobayashi, "Study on hydrogen in high speed combustion " , , May 2002
- 59 Sadegh Tabejamaat, "Injection modeling for flameholding in supersonic airflow " , , March 2001
- 60 Sadegh Tabejamaat, "numerical study on combustion of hydrogen in supersonic airflow " , , March 2000

Taught Courses

#	Course title	Description	Headlines	Date
1	Advanced Fuel & Combustion (I)	study of fundamentals of combustion thermodynamic, combustion kinetics and laminar and turbulent flame		Fall 2021
2	Fuel & Combustion	Teaching the fundamentals of Fuel and combustion and the applications		Spring 2021

Inventions/Patents

#	Invention title	Reg. number	Country	contributors	Reg. date	Exp. date
1	Double Swirl Burner	US 2020/0063957 A1			2020/02/1	2027/02/1
2	Experimental Test Stand for Micro and Meso Combustion	80027			2013/07/1	2033/03/1
3	Four Ways Switching Valve	39914			2007/04/1	-
4	Super-preheat Air Combustion Burner System	39911			2007/04/1	-