

Akram Mohammad

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,039
citations

516215

16
h-index

500791

28
g-index

30
all docs

30
docs citations

30
times ranked

650
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review of measurements and data analysis of laminar burning velocities for various fuel+air mixtures. Progress in Energy and Combustion Science, 2018, 68, 197-267.	15.8	329
2	Experimental studies on dynamics of methane-air premixed flame in meso-scale diverging channels. Combustion and Flame, 2011, 158, 915-924.	2.8	93
3	Laminar Burning Velocity of Methane-Air Mixtures at Elevated Temperatures. Energy & Fuels, 2013, 27, 3460-3466.	2.5	72
4	Laminar Burning Velocity of Propane/CO ₂ /N ₂ -Air Mixtures at Elevated Temperatures. Energy & Fuels, 2012, 26, 5509-5518.	2.5	64
5	Measurement of Laminar Burning Velocity of Liquefied Petroleum Gas Air Mixtures at Elevated Temperatures. Energy & Fuels, 2012, 26, 3267-3274.	2.5	56
6	Effect of N ₂ /CO ₂ dilution on laminar burning velocity of H ₂ -air mixtures at high temperatures. International Journal of Hydrogen Energy, 2013, 38, 13812-13821.	3.8	54
7	Burning velocities of DME(dimethyl ether)-air premixed flames at elevated temperatures. Energy, 2017, 126, 34-41.	4.5	47
8	Effect of hydrogen addition on the combustion characteristics of premixed biogas/hydrogen-air mixtures. International Journal of Hydrogen Energy, 2021, 46, 18661-18677.	3.8	39
9	Laminar burning velocity and flame structure of DME/methane-air mixtures at elevated temperatures. Fuel, 2019, 245, 105-114.	3.4	33
10	Investigations on the Formation of Planar Flames in Mesoscale Divergent Channels and Prediction of Burning Velocity at High Temperatures. Combustion Science and Technology, 2013, 185, 645-660.	1.2	32
11	Dynamics of premixed methane/air mixtures in a heated microchannel with different wall temperature gradients. RSC Advances, 2017, 7, 2066-2073.	1.7	30
12	Combustion characteristics of the effect of hydrogen addition on LPG-air mixtures. International Journal of Hydrogen Energy, 2015, 40, 16605-16617.	3.8	26
13	Laminar burning velocity of n-butane/Hydrogen/Air mixtures at elevated temperatures. Energy, 2019, 176, 410-417.	4.5	22
14	Experimental and Computational Determination of Laminar Burning Velocity of Liquefied Petroleum Gas-Air Mixtures at Elevated Temperatures. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	0.5	20
15	Effect of Helix Angle on the Performance of Helical Vertical Axis Wind Turbine. Energies, 2021, 14, 393.	1.6	20
16	Effects of CO ₂ /N ₂ dilution on laminar burning velocity of stoichiometric DME-air mixture at elevated temperatures. Journal of Hazardous Materials, 2017, 333, 215-221.	6.5	19
17	Effect of hole pattern on the structure of small scale perforated plate burner flames. Fuel, 2018, 216, 722-733.	3.4	15
18	Influence of thickness on performance characteristics of non-sinusoidal plunging motion of symmetric airfoil. Aerospace Science and Technology, 2018, 81, 333-347.	2.5	14

#	ARTICLE	IF	CITATIONS
19	Effect of Hydrogen Addition on Laminar Burning Velocity of Liquefied Petroleum Gas Blends. <i>Energy & Fuels</i> , 2020, 34, 798-805.	2.5	13
20	Effect of solidity and airfoil on the performance of vertical axis wind turbine under fluctuating wind conditions. <i>International Journal of Green Energy</i> , 2019, 16, 1329-1342.	2.1	11
21	Study of flow patterns and impingement heat transfer for an annular array of eight co-rotating dual-swirling flames. <i>International Journal of Heat and Mass Transfer</i> , 2019, 144, 118657.	2.5	8
22	Insert Gas Dilution and Temperature Effects on Laminar Burning Velocity of DME + Air Mixtures. <i>Energy & Fuels</i> , 2018, 32, 6347-6354.	2.5	7
23	Tip Opening of Burner-Stabilized Flames. <i>Energy & Fuels</i> , 2018, 32, 2344-2354.	2.5	6
24	Effect of hydrocarbon addition on tip opening of hydrogen-air bunsen flames. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 5763-5775.	3.8	3
25	Effect of Burner Wall Material on Microjet Hydrogen Diffusion Flames near Extinction: A Numerical Study. <i>Energies</i> , 2021, 14, 8266.	1.6	2
26	Computational analysis of the aerodynamic characteristics and stability derivatives of an aerostat under unsteady wind conditions. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022, 44, 1.	0.8	2
27	Flame Dynamics inside Rectangular Meso scale Channels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 326, 012018.	0.3	1
28	Stability Derivatives of Various Lighter-than-Air Vehicles: A CFD-Based Comparative Study. <i>Drones</i> , 2022, 6, 168.	2.7	1
29	Laminar Flame Velocity and Temperature Exponent of Diluted DME-Air Mixture. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 187, 012009.	0.3	0
30	Effect of added struts and intake velocity on flame stabilization in supersonic combustors. <i>Journal of Engineering Research</i> , 2021, 9, .	0.4	0