

Omid Askari

List of Publications by Year in descending order

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34
papers

703
citations

516215

16
h-index

552369

26
g-index

34
all docs

34
docs citations

34
times ranked

329
citing authors

#	ARTICLE	IF	CITATIONS
1	Laminar burning speed measurement and flame instability study of H ₂ /CO/air mixtures at high temperatures and pressures using a novel multi-shell model. <i>Combustion and Flame</i> , 2016, 168, 20-31.	2.8	92
2	On the flame stability and laminar burning speeds of syngas/O ₂ /He premixed flame. <i>Fuel</i> , 2017, 190, 90-103.	3.4	88
3	Exhaust gas recirculation effects on flame structure and laminar burning speeds of H ₂ /CO/air flames at high pressures and temperatures. <i>Applied Energy</i> , 2016, 179, 451-462.	5.1	58
4	Cell formation effects on the burning speeds and flame front area of synthetic gas at high pressures and temperatures. <i>Applied Energy</i> , 2017, 189, 568-577.	5.1	44
5	Measurement of Laminar Burning Speeds and Investigation of Flame Stability of Acetylene (C ₂ H ₂)/Air Mixtures. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015, 137, .	1.4	43
6	Fundamental Study of Spray and Partially Premixed Combustion of Methane/Air Mixture. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2013, 135, .	1.4	40
7	Lean Partially Premixed Combustion Investigation of Methane Direct-Injection Under Different Characteristic Parameters. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2014, 136, .	1.4	40
8	Auto-Ignition Characteristics Study of Gas-to-Liquid Fuel at High Pressures and Low Temperatures. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2017, 139, .	1.4	33
9	Theoretical Prediction of Laminar Burning Speed and Ignition Delay Time of Gas-to-Liquid Fuel. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2017, 139, .	1.4	32
10	An investigation on laminar burning speed and flame structure of anisole-air mixture. <i>Fuel</i> , 2019, 244, 120-131.	3.4	32
11	Understanding the Effect of Oxygenated Additives on Combustion Characteristics of Gasoline. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019, 141, .	1.4	22
12	Theoretical Prediction of the Effect of Blending JP-8 With Syngas on the Ignition Delay Time and Laminar Burning Speed. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018, 140, .	1.4	21
13	On the thermodynamic properties of thermal plasma in the flame kernel of hydrocarbon/air premixed gases. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	19
14	Developing alternative approaches to predicting the laminar burning speed of refrigerants using the minimum ignition energy. <i>Science and Technology for the Built Environment</i> , 2015, 21, 220-227.	0.8	18
15	Combustion Simulation of Propane/Oxygen (With Nitrogen/Argon) Mixtures Using Rate-Controlled Constrained-Equilibrium. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019, 141, .	1.4	18
16	Cooling of Turbine Blade Surface With Expanded Exit Holes: Computational Suction-Side Analysis. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2016, 138, .	1.4	16
17	A New Detailed Ethanol Kinetic Mechanism at Engine-Relevant Conditions. <i>Energy & Fuels</i> , 2020, 34, 3691-3708.	2.5	16
18	On the low-temperature plasma discharge in methane/air diffusion flames. <i>Energy</i> , 2020, 197, 117185.	4.5	14

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19	Cooling of Turbine Blades With Expanded Exit Holes: Computational Analyses of Leading Edge and Pressure-Side of a Turbine Blade. Journal of Energy Resources Technology, Transactions of the ASME, 2017, 139, .	1.4	12
20	Thermodynamic Properties of Pure and Mixed Thermal Plasmas Over a Wide Range of Temperature and Pressure. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	1.4	11
21	Understanding the Effect of Capacitive Discharge Ignition on Plasma Formation and Flame Propagation of Air-Propane Mixture. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	1.4	11
22	Reduction of nitrous oxide emissions from biological nutrient removal processes by thermal decomposition. Water Research, 2016, 106, 304-311.	5.3	8
23	Flame Stability in Inverse Coaxial Injector Using Repetitive Nanosecond Pulsed Plasma. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	1.4	5
24	Measurement of Laminar Burning Speeds and Investigation of Flame Stability of Acetylene (C ₂ H ₂)/Air Mixtures. , 2014, , .		3
25	Cooling of Turbine Blade Surface With Extended Exit Holes: Parametric Study. , 2014, , .		2
26	Film Cooling of Turbine Blade Surface With Extended Exit Holes. , 2014, , .		1
27	Study of the Constraint Selection Through ASVDADD Method for Rate-Controlled Constrained-Equilibrium Modeling on Ethanol Oxidation Without PLOG Reactions. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	1.4	1
28	Electrode Design for Thermal and Nonthermal Plasma Discharge Inside a Constant Volume Combustion Chamber. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	1.4	1
29	Detailed kinetics for anisole oxidation under various range of operating conditions. Fuel, 2022, 325, 124907.	3.4	1
30	Mode transition and uncertainty analysis of repetitive nanosecond pulsed discharge. Journal of Electrostatics, 2022, 118, 103736.	1.0	1
31	Fundamental Study of Spray and Partially Premixed Combustion of Methane/Air Mixture. , 2012, , .		0
32	Lean Partially Premixed Combustion Investigation of Methane Direct-Injection Under Different Characteristic Parameters. , 2013, , .		0
33	Mass Burning Rate of Syngas/Air Mixtures and Gas to Liquid Fuel Auto-Ignition at High Temperatures and Pressures. , 2016, , .		0
34	A Reformulation of Degree of Disequilibrium Analysis for Automatic Selection of Kinetic Constraints in the Rate-Controlled Constrained-Equilibrium Method. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	0