

Omid Askari

List of Publications by Year in descending order

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34
papers

703
citations

516215

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34
all docs

34
docs citations

34
times ranked

329
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrode Design for Thermal and Nonthermal Plasma Discharge Inside a Constant Volume Combustion Chamber. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022, 144, .	1.4	1
2	Detailed kinetics for anisole oxidation under various range of operating conditions. <i>Fuel</i> , 2022, 325, 124907.	3.4	1
3	Mode transition and uncertainty analysis of repetitive nanosecond pulsed discharge. <i>Journal of Electrostatics</i> , 2022, 118, 103736.	1.0	1
4	A Reformulation of Degree of Disequilibrium Analysis for Automatic Selection of Kinetic Constraints in the Rate-Controlled Constrained-Equilibrium Method. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021, 143, .	1.4	0
5	On the low-temperature plasma discharge in methane/air diffusion flames. <i>Energy</i> , 2020, 197, 117185.	4.5	14
6	A New Detailed Ethanol Kinetic Mechanism at Engine-Relevant Conditions. <i>Energy & Fuels</i> , 2020, 34, 3691-3708.	2.5	16
7	Flame Stability in Inverse Coaxial Injector Using Repetitive Nanosecond Pulsed Plasma. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	1.4	5
8	Study of the Constraint Selection Through ASVDADD Method for Rate-Controlled Constrained-Equilibrium Modeling on Ethanol Oxidation Without PLOG Reactions. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	1.4	1
9	An investigation on laminar burning speed and flame structure of anisole-air mixture. <i>Fuel</i> , 2019, 244, 120-131.	3.4	32
10	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
11	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
12	Understanding the Effect of Capacitive Discharge Ignition on Plasma Formation and Flame Propagation of Air-Propane Mixture. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019, 141, .	1.4	11
13	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
14	Thermodynamic Properties of Pure and Mixed Thermal Plasmas Over a Wide Range of Temperature and Pressure. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018, 140, .	1.4	11
15	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
16	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
17	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
18	Cooling of Turbine Blades With Expanded Exit Holes: Computational Analyses of Leading Edge and Pressure-Side of a Turbine Blade. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2017, 139, .	1.4	12

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19	Auto-Ignition Characteristics Study of Gas-to-Liquid Fuel at High Pressures and Low Temperatures. Journal of Energy Resources Technology, Transactions of the ASME, 2017, 139, .	1.4	33
20	Mass Burning Rate of Syngas/Air Mixtures and Gas to Liquid Fuel Auto-Ignition at High Temperatures and Pressures. , 2016, , .		0
21	Reduction of nitrous oxide emissions from biological nutrient removal processes by thermal decomposition. Water Research, 2016, 106, 304-311.	5.3	8
22	On the thermodynamic properties of thermal plasma in the flame kernel of hydrocarbon/air premixed gases. European Physical Journal D, 2016, 70, 1.	0.6	19
23	Exhaust gas recirculation effects on flame structure and laminar burning speeds of H ₂ /CO/air flames at high pressures and temperatures. Applied Energy, 2016, 179, 451-462.	5.1	58
24	Cooling of Turbine Blade Surface With Expanded Exit Holes: Computational Suction-Side Analysis. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	1.4	16
25	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. Combustion and Flame, 2016, 168, 20-31.	2.8	92
26	Developing alternative approaches to predicting the laminar burning speed of refrigerants using the minimum ignition energy. Science and Technology for the Built Environment, 2015, 21, 220-227.	0.8	18
27	Measurement of Laminar Burning Speeds and Investigation of Flame Stability of Acetylene (C ₂ H ₂)/Air Mixtures. Journal of Energy Resources Technology, Transactions of the ASME, 2015, 137, .	1.4	43
28	Measurement of Laminar Burning Speeds and Investigation of Flame Stability of Acetylene (C ₂ H ₂)/Air Mixtures. , 2014, , .		3
29	Lean Partially Premixed Combustion Investigation of Methane Direct-Injection Under Different Characteristic Parameters. Journal of Energy Resources Technology, Transactions of the ASME, 2014, 136, .	1.4	40
30	Film Cooling of Turbine Blade Surface With Extended Exit Holes. , 2014, , .		1
31	Cooling of Turbine Blade Surface With Extended Exit Holes: Parametric Study. , 2014, , .		2
32	Fundamental Study of Spray and Partially Premixed Combustion of Methane/Air Mixture. Journal of Energy Resources Technology, Transactions of the ASME, 2013, 135, .	1.4	40
33	Lean Partially Premixed Combustion Investigation of Methane Direct-Injection Under Different Characteristic Parameters. , 2013, , .		0
34	Fundamental Study of Spray and Partially Premixed Combustion of Methane/Air Mixture. , 2012, , .		0