

Joseph K Lefkowitz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4439250/publications.pdf>

Version: 2024-02-01

30
papers

929
citations

567281

15
h-index

713466

21
g-index

30
all docs

30
docs citations

30
times ranked

537
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma Assisted Low Temperature Combustion. Plasma Chemistry and Plasma Processing, 2016, 36, 85-105.	2.4	130
2	Species and temperature measurements of methane oxidation in a nanosecond repetitively pulsed discharge. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140333.	3.4	96
3	An exploration of inter-pulse coupling in nanosecond pulsed high frequency discharge ignition. Combustion and Flame, 2017, 180, 136-147.	5.2	86
4	Schlieren imaging and pulsed detonation engine testing of ignition by a nanosecond repetitively pulsed discharge. Combustion and Flame, 2015, 162, 2496-2507.	5.2	74
5	Low temperature oxidation and pyrolysis of n-heptane in nanosecond-pulsed plasma discharges. Proceedings of the Combustion Institute, 2017, 36, 4105-4112.	3.9	74
6	In situ species diagnostics and kinetic study of plasma activated ethylene dissociation and oxidation in a low temperature flow reactor. Proceedings of the Combustion Institute, 2015, 35, 3505-3512.	3.9	71
7	Reduction of flame development time in nanosecond pulsed high frequency discharge ignition of flowing mixtures. Combustion and Flame, 2018, 193, 471-480.	5.2	47
8	A numerical investigation of NH ₃ /O ₂ /He ignition limits in a non-thermal plasma. Proceedings of the Combustion Institute, 2021, 38, 6661-6669.	3.9	47
9	A chemical kinetic study of tertiary-butanol in a flow reactor and a counterflow diffusion flame. Combustion and Flame, 2012, 159, 968-978.	5.2	46
10	Nanosecond Pulsed Plasma Activated C ₂ H ₄ /O ₂ /Ar Mixtures in a Flow Reactor. Journal of Propulsion and Power, 2016, 32, 1240-1252.	2.2	38
11	Uncertainty assessment of species measurements in acetone counterflow diffusion flames. Proceedings of the Combustion Institute, 2013, 34, 813-820.	3.9	33
12	The effect of inter-pulse coupling on gas temperature in nanosecond-pulsed high-frequency discharges. Journal Physics D: Applied Physics, 2019, 52, 355203.	2.8	25
13	Ignition dynamics of a pulse detonation igniter in a supersonic cavity flameholder. Combustion and Flame, 2020, 215, 376-388.	5.2	22
14	Spatiotemporal evolution of the plasma from dual-pulsed laser-induced breakdown in an atmospheric air. Plasma Sources Science and Technology, 2018, 27, 015012.	3.1	21
15	Ignition enhancement by dual-pulse laser-induced spark ignition in a lean premixed methane-air flow. Proceedings of the Combustion Institute, 2019, 37, 5605-5612.	3.9	21
16	Plasma reforming for enhanced ammonia-air ignition: A numerical study. Fuel Communications, 2022, 12, 100070.	5.2	16
17	Elevated OH production from NPHFD and its effect on ignition. Proceedings of the Combustion Institute, 2021, 38, 6671-6678.	3.9	14
18	Analyzing the ignition differences between conventional spark discharges and nanosecond-pulsed high-frequency discharges. Proceedings of the Combustion Institute, 2021, 38, 6615-6622.	3.9	14

#	ARTICLE	IF	CITATIONS
19	The effect of nanosecond pulsed high frequency discharges on the temperature evolution of ignition kernels. Proceedings of the Combustion Institute, 2019, 37, 5561-5568.	3.9	13
20	Spark and flame kernel interaction with dual-pulse laser-induced spark ignition in a lean premixed methane-air flow. Energy, 2021, 215, 119162.	8.8	11
21	The impact of residence time on ignitability and time to ignition in a toroidal jet-stirred reactor. Proceedings of the Combustion Institute, 2019, 37, 5039-5046.	3.9	8
22	Time Dependent Measurements of Species Formation in Nanosecond-Pulsed Plasma Discharges in C ₂ H ₄ /O ₂ /Ar Mixtures. , 2014, , .		6
23	Low temperature oxidation of methane in a nanosecond pulsed plasma discharge. , 2015, , .		5
24	Species Measurements of Ethylene Oxidation in a Nanosecond-Pulsed Plasma Discharge Using QCL Absorption Spectroscopy Near 7.6 μ m.. , 2013, , .		3
25	Study of Nanosecond Pulsed High Frequency Discharge Ignition in a Flowing Methane/Air Mixture. , 2017, , .		3
26	Numerical and Experimental Investigation of Nanosecond-Pulsed Plasma Activated C ₂ H ₄ /O ₂ /Ar Mixtures in a Low Temperature Flow Reactor. , 2015, , .		2
27	An Investigation on Kernel Growth Variations between Conventional Spark Discharges and Nanosecond-Pulsed High-Frequency Discharges. , 2020, , .		2
28	Measurements of Low Temperature Oxidation of n-Heptane/O ₂ /Ar Mixtures in Nanosecond-pulsed Plasma Discharges. , 2016, , .		1
29	Towards Simultaneous Measurement of OH and HO ₂ in Combustion Using Faraday Rotation Spectroscopy. , 2014, , .		0
30	Optimization of Energy Distribution in Nanosecond-Pulsed High-Frequency Discharge Ignition. , 2022, , .		0