Joseph K Lefkowitz

List of Publications by Year
in descending order

30	929	567281 15	713466 21
papers	citations	h-index	g-index

30	30	30	537
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimization of Energy Distribution in Nanosecond-Pulsed High-Frequency Discharge Ignition. , 2022, , .		0
2	Plasma reforming for enhanced ammonia-air ignition: A numerical study. Fuel Communications, 2022, 12, 100070.	5.2	16
3	Elevated OH production from NPHFD and its effect on ignition. Proceedings of the Combustion Institute, 2021, 38, 6671-6678.	3.9	14
4	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
5	Spark and flame kernel interaction with dual-pulse laser-induced spark ignition in a lean premixed methaneâ€“air flow. Energy, 2021, 215, 119162.	8.8	11
6	A numerical investigation of NH3/O2/He ignition limits in a non-thermal plasma. Proceedings of the Combustion Institute, 2021, 38, 6661-6669.	3.9	47
7	An Investigation on Kernel Growth Variations between Conventional Spark Discharges and Nanosecond-Pulsed High-Frequency Discharges. , 2020, , .		2
8	Ignition dynamics of a pulse detonation igniter in a supersonic cavity flameholder. Combustion and Flame, 2020, 215, 376-388.	5.2	22
9	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
10	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
11	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
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	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
14	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
15	Study of Nanosecond Pulsed High Frequency Discharge Ignition in a Flowing Methane/Air Mixture. , 2017, , .		3
16	An exploration of inter-pulse coupling in nanosecond pulsed high frequency discharge ignition. Combustion and Flame, 2017, 180, 136-147.	5.2	86
17	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
18	Nanosecond Pulsed Plasma Activated C2H4/O2/Ar Mixtures in a Flow Reactor. Journal of Propulsion and Power, 2016, 32, 1240-1252.	2.2	38

#	Article	IF	Citations
19	Measurements of Low Temperature Oxidation of n-Heptane/O2/Ar Mixtures in Nanosecond-pulsed Plasma Discharges. , 2016, , .		1
20	Plasma Assisted Low Temperature Combustion. Plasma Chemistry and Plasma Processing, 2016, 36, 85-105.	2.4	130
21	Low temperature oxidation of methane in a nanosecond pulsed plasma discharge. , 2015, , .		5
22	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
23	Numerical and Experimental Investigation of Nanosecond-Pulsed Plasma Activated C2H4/O2/Ar Mixtures in a Low Temperature Flow Reactor. , 2015, , .		2
24	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
25	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
26	Time Dependent Measurements of Species Formation in Nanosecond-Pulsed Plasma Discharges in C2H4/O2/Ar Mixtures. , 2014, , .		6
27	Towards Simultaneous Measurement of OH and HO2 in Combustion Using Faraday Rotation Spectroscopy. , 2014, , .		0
28	Uncertainty assessment of species measurements in acetone counterflow diffusion flames. Proceedings of the Combustion Institute, 2013, 34, 813-820.	3.9	33
29	Species Measurements of Ethylene Oxidation in a Nanosecond-Pulsed Plasma Discharge Using QCL Absorption Spectroscopy Near 7.6Âµm.. , 2013, , .		3
30	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