

Wenting Sun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

1,823
citations

19
h-index

42
g-index

45
ext. papers

2,428
ext. citations

6.8
avg, IF

5.41
L-index

#	Paper	IF	Citations
41	Designing the bioproduction of Martian rocket propellant via a biotechnology-enabled in situ resource utilization strategy. <i>Nature Communications</i> , 2021 , 12, 6166	17.4	3
40	Plasma assisted ammonia combustion: Simultaneous NOx reduction and flame enhancement. <i>Combustion and Flame</i> , 2021 , 228, 430-432	5.3	10
39	High pressure ignition delay times of H ₂ /CO mixture in carbon dioxide and argon diluent. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 251-260	5.9	2
38	Dynamics of laminar ethylene lifted flame with ozone addition. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 6773-6780	5.9	3
37	Comparison of Finite Rate Chemistry and Flamelet/Progress-Variable Models: Sandia Flames and the Effect of Differential Diffusion. <i>Combustion Science and Technology</i> , 2020 , 192, 1137-1159	1.5	1
36	Laminar flame speeds of methane/air mixtures at engine conditions: Performance of different kinetic models and power-law correlations. <i>Combustion and Flame</i> , 2020 , 218, 101-108	5.3	24
35	An efficient finite-rate chemistry model for a preconditioned compressible flow solver and its comparison with the flamelet/progress-variable model. <i>Combustion and Flame</i> , 2019 , 210, 172-182	5.3	4
34	Analysis of chemical pathways and flame structure for n-dodecane/air turbulent premixed flames. <i>Combustion and Flame</i> , 2019 , 207, 36-50	5.3	8
33	Measurement of methane autoignition delays in carbon dioxide and argon diluents at high pressure conditions. <i>Combustion and Flame</i> , 2019 , 204, 304-319	5.3	13
32	The effect of ozone addition on combustion: Kinetics and dynamics. <i>Progress in Energy and Combustion Science</i> , 2019 , 73, 1-25	33.6	43
31	Global Pathway Analysis: a hierarchical framework to understand complex chemical kinetics. <i>Combustion Theory and Modelling</i> , 2019 , 23, 549-571	1.5	2
30	Ozonolysis activated autoignition in non-premixed coflow. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 105201	3	2
29	Comparison of Finite-Rate Chemistry and Flamelet/Progress-Variable Models II: Sandia Flame E 2018 ,		1
28	Investigation of Ethylene Ozonolysis Reactions Stable Products Using Flow Reactor at Room Temperature and Pressure 2018 ,		1
27	Blowoff hysteresis, flame morphology and the effect of plasma in a swirling flow. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 365201	3	10
26	Comparison of Flamelet/Progress-Variable and Finite-Rate Chemistry LES Models in a Preconditioning Scheme 2017 ,		14
25	The Effect of Ozonolysis Activated Autoignition on Jet Flame Dynamics 2017 ,		7

24	Effect of turbulencechemistry interactions on chemical pathways for turbulent hydrogenair premixed flames. <i>Combustion and Flame</i> , 2017 , 176, 191-201	5.3	29
23	Sensitivity of predictions to chemical kinetics models in a temporally evolving turbulent non-premixed flame. <i>Combustion and Flame</i> , 2017 , 183, 224-241	5.3	23
22	Multiscale modeling and general theory of non-equilibrium plasma-assisted ignition and combustion. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 433001	3	33
21	Effects of Non-Equilibrium Plasma Discharge on Ignition and NTC Chemistry of DME/O ₂ /Ar Mixtures: A Numerical Investigation 2017 ,		5
20	The effects of ozonolysis activated autoignition on non-premixed jet flame dynamics: a numerical and experimental study 2017 ,		5
19	Global Pathway Analysis of the Autoignition and Extinction of Aromatic/Alkane mixture 2017 ,		4
18	The Investigation of Ozonolysis Reactions of Ethylene at Combustion Environment Using a Flow Reactor 2017 ,		1
17	Global Pathway Analysis of the Extinction and Re-ignition of a Turbulent Non-Premixed Flame 2017 ,		8
16	Nanosecond Pulsed Plasma Activated C ₂ H ₄ /O ₂ /Ar Mixtures in a Flow Reactor. <i>Journal of Propulsion and Power</i> , 2016 , 32, 1240-1252	1.8	28
15	The Effect of Ozone Addition on Autoignition and Flame Stabilization 2016 ,		6
14	Plasma Assisted Low Temperature Combustion. <i>Plasma Chemistry and Plasma Processing</i> , 2016 , 36, 85-105	5.6	79
13	A global pathway selection algorithm for the reduction of detailed chemical kinetic mechanisms. <i>Combustion and Flame</i> , 2016 , 167, 238-247	5.3	41
12	The effect of ozone addition on laminar flame speed. <i>Combustion and Flame</i> , 2015 , 162, 3914-3924	5.3	57
11	Plasma assisted combustion: Progress, challenges, and opportunities. <i>Combustion and Flame</i> , 2015 , 162, 529-532	5.3	49
10	Plasma assisted combustion: Dynamics and chemistry. <i>Progress in Energy and Combustion Science</i> , 2015 , 48, 21-83	33.6	553
9	In situ plasma activated low temperature chemistry and the S-curve transition in DME/oxygen/helium mixture. <i>Combustion and Flame</i> , 2014 , 161, 2054-2063	5.3	56
8	Dual modulation Faraday rotation spectroscopy of HO ₂ in a flow reactor. <i>Optics Letters</i> , 2014 , 39, 1783-6		16
7	Direct In Situ Quantification of HO ₂ from a Flow Reactor. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 872-6	6.4	32

6	A dynamic adaptive chemistry scheme with error control for combustion modeling with a large detailed mechanism. <i>Combustion and Flame</i> , 2013 , 160, 225-231	5-3	38
5	Kinetic effects of non-equilibrium plasma-assisted methane oxidation on diffusion flame extinction limits. <i>Combustion and Flame</i> , 2012 , 159, 221-229	5-3	116
4	Effects of non-equilibrium plasma discharge on counterflow diffusion flame extinction. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 3211-3218	5-9	70
3	Kinetic effects of toluene blending on the extinction limit of n-decane diffusion flames. <i>Combustion and Flame</i> , 2010 , 157, 411-420	5-3	69
2	A dynamic multi-timescale method for combustion modeling with detailed and reduced chemical kinetic mechanisms. <i>Combustion and Flame</i> , 2010 , 157, 1111-1121	5-3	94
1	A path flux analysis method for the reduction of detailed chemical kinetic mechanisms. <i>Combustion and Flame</i> , 2010 , 157, 1298-1307	5-3	262