

List of Publications by Citations

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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.

120 papers	6,565 citations	41 h-index	79 g-index
123 ext. papers	8,003 ext. citations	5.6 avg, IF	6.36 L-index

#	Paper	IF	Citations
120	Plasma assisted combustion: Dynamics and chemistry. <i>Progress in Energy and Combustion Science</i> , 2015 , 48, 21-83	33.6	553
119	Comprehensive H ₂ /O ₂ kinetic model for high-pressure combustion. <i>International Journal of Chemical Kinetics</i> , 2012 , 44, 444-474	1.4	507
118	A jet fuel surrogate formulated by real fuel properties. <i>Combustion and Flame</i> , 2010 , 157, 2333-2339	5.3	407
117	The experimental evaluation of a methodology for surrogate fuel formulation to emulate gas phase combustion kinetic phenomena. <i>Combustion and Flame</i> , 2012 , 159, 1444-1466	5.3	298
116	Effects of Lewis number and ignition energy on the determination of laminar flame speed using propagating spherical flames. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 1253-1260	5.9	272
115	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
114	Effect of cylindrical confinement on the determination of laminar flame speeds using outwardly propagating flames. <i>Combustion and Flame</i> , 2009 , 156, 771-779	5.3	259
113	On the extinction limit and flammability limit of non-adiabatic stretched methane/air premixed flames. <i>Journal of Fluid Mechanics</i> , 1997 , 342, 315-334	3.7	233
112	Pegylated Composite Nanoparticles Containing Upconverting Phosphors and meso-Tetraphenyl porphine (TPP) for Photodynamic Therapy. <i>Advanced Functional Materials</i> , 2011 , 21, 2488-2495	15.6	160
111	On the critical flame radius and minimum ignition energy for spherical flame initiation. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 1219-1226	5.9	135
110	Controlled synthesis of lanthanide-doped NaYF ₄ upconversion nanocrystals via ligand induced crystal phase transition and silica coating. <i>Applied Physics Letters</i> , 2007 , 91, 123103	3.4	132
109	Numerical experiments on reaction front propagation in n-heptane/air mixture with temperature gradient. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 3045-3052	5.9	112
108	Detection and Identification of the Keto-Hydroperoxide (HOOCH ₂ OCHO) and Other Intermediates during Low-Temperature Oxidation of Dimethyl Ether. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 7361-7428	2.8	111
107	Biofunctionalization, cytotoxicity, and cell uptake of lanthanide doped hydrophobically ligated NaYF ₄ upconversion nanophosphors. <i>Journal of Applied Physics</i> , 2008 , 104, 094308	2.5	103
106	Extinction of low-stretched diffusion flame in microgravity. <i>Combustion and Flame</i> , 1998 , 112, 181-187	5.3	98
105	Flame synthesis and characterization of rare-earth (Er ³⁺ , Ho ³⁺ , and Tm ³⁺) doped upconversion nanophosphors. <i>Applied Physics Letters</i> , 2007 , 90, 073104	3.4	95
104	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

103	The Hidden Effects of Particle Shape and Criteria for Evaluating the Upconversion Luminescence of the Lanthanide Doped Nanophosphors. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2452-2461	3.8	92
102	Self-sustaining n-heptane cool diffusion flames activated by ozone. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 881-888	5.9	83
101	Anomalous Raman Scattering of Colloidal Yb ³⁺ ,Er ³⁺ Codoped NaYF ₄ Nanophosphors and Dynamic Probing of the Upconversion Luminescence. <i>Advanced Functional Materials</i> , 2010 , 20, 3530-3537	15.6	83
100	A radical index for the determination of the chemical kinetic contribution to diffusion flame extinction of large hydrocarbon fuels. <i>Combustion and Flame</i> , 2012 , 159, 541-551	5.3	80
99	Plasma Assisted Low Temperature Combustion. <i>Plasma Chemistry and Plasma Processing</i> , 2016 , 36, 85-105	5.6	79
98	Multi-timescale modeling of ignition and flame regimes of n-heptane-air mixtures near spark assisted homogeneous charge compression ignition conditions. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 1245-1251	5.9	76
97	Flame synthesis of Y ₂ O ₃ :Eu nanophosphors using ethanol as precursor solvents. <i>Journal of Materials Research</i> , 2005 , 20, 2960-2968	2.5	71
96	Kinetic studies of ozone assisted low temperature oxidation of dimethyl ether in a flow reactor using molecular-beam mass spectrometry. <i>Combustion and Flame</i> , 2016 , 173, 187-194	5.3	70
95	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
94	Effects of the Lewis number and radiative heat loss on the bifurcation and extinction of CH ₄ /O ₂ -N ₂ -He flames. <i>Journal of Fluid Mechanics</i> , 1999 , 379, 165-190	3.7	65
93	Kinetic effects of aromatic molecular structures on diffusion flame extinction. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 1163-1170	5.9	64
92	The role of low temperature fuel chemistry on turbulent flame propagation. <i>Combustion and Flame</i> , 2014 , 161, 475-483	5.3	63
91	Species and temperature measurements of methane oxidation in a nanosecond repetitively pulsed discharge. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	62
90	Experimental study of the dynamics and structure of self-sustaining premixed cool flames using a counterflow burner. <i>Combustion and Flame</i> , 2016 , 166, 125-132	5.3	61
89	Dynamics of cool flames. <i>Progress in Energy and Combustion Science</i> , 2019 , 75, 100787	33.6	60
88	Numerical simulations of premixed cool flames of dimethyl ether/oxygen mixtures. <i>Combustion and Flame</i> , 2015 , 162, 3580-3588	5.3	58
87	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
86	Low temperature oxidation and pyrolysis of n-heptane in nanosecond-pulsed plasma discharges. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 4105-4112	5.9	55

85	An investigation of the thermal sensitivity and stability of the $\text{ErNaYF}_4\text{:Yb,Er}$ upconversion nanophosphors. <i>Journal of Applied Physics</i> , 2010 , 107, 054901	2.5	55
84	Regularized random-sampling high dimensional model representation (RS-HDMR). <i>Journal of Mathematical Chemistry</i> , 2008 , 43, 1207-1232	2.1	54
83	Quantitative measurements of $\text{HO}_2/\text{H}_2\text{O}_2$ and intermediate species in low and intermediate temperature oxidation of dimethyl ether. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 457-464	5.9	53
82	Surrogate fuel formulation for oxygenated and hydrocarbon fuels by using the molecular structures and functional groups. <i>Fuel</i> , 2016 , 166, 211-218	7.1	45
81	Effect of prompt dissociation of formyl radical on 1,3,5-trioxane and CH_2O laminar flame speeds with CO_2 dilution at elevated pressure. <i>Combustion and Flame</i> , 2017 , 183, 253-260	5.3	42
80	Experimental and kinetic modeling study of diethyl ether flames. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 1165-1173	5.9	41
79	Study of the low-temperature reactivity of large n-alkanes through cool diffusion flame extinction. <i>Combustion and Flame</i> , 2017 , 179, 23-32	5.3	40
78	On the propagation limits and speeds of premixed cool flames at elevated pressures. <i>Combustion and Flame</i> , 2017 , 178, 61-69	5.3	40
77	Importance of a Cycloalkane Functionality in the Oxidation of a Real Fuel. <i>Energy & Fuels</i> , 2014 , 28, 7649-7661	4.1	39
76	Studies of low temperature oxidation of n-pentane with nitric oxide addition in a jet stirred reactor. <i>Combustion and Flame</i> , 2018 , 197, 78-87	5.3	36
75	Coupled hydrodynamic and diffusional-thermal instabilities in flame propagation at subunity Lewis numbers. <i>Physics of Fluids</i> , 2005 , 17, 074106	4.4	36
74	EFFECTS OF CHANNEL WIDTH AND LEWIS NUMBER ON THE MULTIPLE FLAME REGIMES AND PROPAGATION LIMITS IN MESOSCALE. <i>Combustion Science and Technology</i> , 2006 , 178, 1723-1753	1.5	35
73	Numerical modeling of ignition enhancement of $\text{CH}_4/\text{O}_2/\text{He}$ mixtures using a hybrid repetitive nanosecond and DC discharge. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 5545-5552	5.9	34
72	Ab Initio Kinetics of Hydrogen Abstraction from Methyl Acetate by Hydrogen, Methyl, Oxygen, Hydroxyl, and Hydroperoxy Radicals. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 6377-90	2.8	34
71	Multi-scale modeling of dynamics and ignition to flame transitions of high pressure stratified n-heptane/toluene mixtures. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 1049-1056	5.9	32
70	Ab Initio Reaction Kinetics of $\text{CH}_3\text{O}(\text{P})\text{O}$ and $\text{H}_2\text{OC}(\text{P})\text{OH}$ Radicals. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 1590-600	3.4	32
69	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
68	Direct numerical simulations of exhaust gas recirculation effect on multistage autoignition in the negative temperature combustion regime for stratified HCCI flow conditions by using H_2O_2 addition. <i>Combustion Theory and Modelling</i> , 2013 , 17, 316-334	1.5	32

67	Counterflow flame experiments and chemical kinetic modeling of dimethyl ether/methane mixtures. <i>Combustion and Flame</i> , 2018 , 196, 1-10	5.3	32
66	Nitrogen-plasma treated hafnium oxyhydroxide as an efficient acid-stable electrocatalyst for hydrogen evolution and oxidation reactions. <i>Nature Communications</i> , 2019 , 10, 1543	17.4	30
65	Low-Temperature Oxidation of Ethylene by Ozone in a Jet-Stirred Reactor. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 8674-8685	2.8	30
64	Ab initio kinetics studies of hydrogen atom abstraction from methyl propanoate. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 4594-607	3.6	29
63	Multi-scale modeling of detonation formation with concentration and temperature gradients in n-heptane/air mixtures. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 1539-1547	5.9	29
62	Experimental and modeling study of the mutual oxidation of N-pentane and nitrogen dioxide at low and high temperatures in a jet stirred reactor. <i>Energy</i> , 2018 , 165, 727-738	7.9	29
61	Flame structure and ignition limit of partially premixed cool flames in a counterflow burner. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 1513-1522	5.9	28
60	Kinetic studies and mechanism development of plasma assisted pentane combustion. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 5595-5603	5.9	27
59	Uncertainty assessment of species measurements in acetone counterflow diffusion flames. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 813-820	5.9	27
58	Studies on the Outwardly and Inwardly Propagating Spherical Flames with Radiative Loss. <i>Combustion Science and Technology</i> , 2010 , 182, 124-142	1.5	26
57	Effects of controlled non-equilibrium excitation on H ₂ /O ₂ /He ignition using a hybrid repetitive nanosecond and DC discharge. <i>Combustion and Flame</i> , 2019 , 206, 522-535	5.3	25
56	Effects of low-temperature chemistry and turbulent transport on knocking formation for stratified dimethyl ether/air mixtures. <i>Combustion and Flame</i> , 2019 , 200, 342-353	5.3	22
55	Phase transition induced formation of hollow structures in colloidal lanthanide-doped NaYF ₄ nanocrystals. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 1429-1438	2.3	21
54	Two-Temperature Chemical-Nonequilibrium Modelling of a High-Velocity Argon Plasma Flow in a Low-Power Arcjet Thruster. <i>Plasma Chemistry and Plasma Processing</i> , 2014 , 34, 559-577	3.6	19
53	Study of ignition chemistry on turbulent premixed flames of n-heptane/air by using a reactor assisted turbulent slot burner. <i>Combustion and Flame</i> , 2016 , 169, 19-29	5.3	19
52	Low-temperature multistage warm diffusion flames. <i>Combustion and Flame</i> , 2018 , 195, 63-74	5.3	18
51	STUDIES ON THE LIFTOFF PROPERTIES OF DIMETHYL ETHER JET DIFFUSION FLAMES. <i>Combustion Science and Technology</i> , 2006 , 178, 2219-2247	1.5	17
50	Studies of multi-channel spark ignition of lean n-pentane/air mixtures in a spherical chamber. <i>Combustion and Flame</i> , 2020 , 212, 337-344	5.3	17

49	Cool diffusion flames of butane isomers activated by ozone in the counterflow. <i>Combustion and Flame</i> , 2018 , 191, 175-186	5.3	16
48	Structures and propagation speeds of autoignition-assisted premixed n-heptane/air cool and warm flames at elevated temperatures and pressures. <i>Combustion and Flame</i> , 2020 , 211, 8-17	5.3	16
47	First detection of a key intermediate in the oxidation of fuel + NO systems: HONO. <i>Chemical Physics Letters</i> , 2019 , 719, 22-26	2.5	15
46	Ab Initio Unimolecular Reaction Kinetics of CH ₂ C(=O)OCH ₃ and CH ₃ C(=O)OCH ₂ Radicals. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 10553-62	2.8	15
45	Thermo-kinetic dynamics of near-limit cool diffusion flames. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 1329-1337	5.9	15
44	Pyrolysis and Oxidation of Methane in a RF Plasma Reactor. <i>Plasma Chemistry and Plasma Processing</i> , 2017 , 37, 1551-1571	3.6	14
43	Ab initio pressure-dependent reaction kinetics of methyl propanoate radicals. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 31061-72	3.6	14
42	Flame Aerosol Synthesis and Electrochemical Characterization of Ni-Rich Layered Cathode Materials for Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1319-1329	6.1	13
41	Kinetic Effects of n-Heptane Addition on Low and High Temperature Oxidation of Methane in a Jet-Stirred Reactor. <i>Energy & Fuels</i> , 2018 , 32, 11970-11978	4.1	13
40	Effects of Bath Gas and NO _x Addition on n-Pentane Low-Temperature Oxidation in a Jet-Stirred Reactor. <i>Energy & Fuels</i> , 2019 , 33, 5655-5663	4.1	12
39	A multi-timescale and correlated dynamic adaptive chemistry and transport (CO-DACT) method for computationally efficient modeling of jet fuel combustion with detailed chemistry and transport. <i>Combustion and Flame</i> , 2017 , 184, 297-311	5.3	12
38	Effects of turbulence and flame instability on flame front evolution. <i>Physics of Fluids</i> , 2006 , 18, 104105	4.4	12
37	Understanding cool flames and warm flames. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 83-119	5.9	11
36	1-D imaging of rotation-vibration non-equilibrium from pure rotational ultrafast coherent anti-Stokes Raman scattering. <i>Optics Letters</i> , 2020 , 45, 4252-4255	3	10
35	Dynamics and burning limits of near-limit hot, warm, and cool diffusion flames of dimethyl ether at elevated pressures. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 1791-1798	5.9	10
34	Kinetic study of plasma-assisted n-dodecane/O ₂ /N ₂ pyrolysis and oxidation in a nanosecond-pulsed discharge. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 6521-6531	5.9	10
33	On the chemical characteristics and dynamics of n-alkane low-temperature multistage diffusion flames. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 1717-1724	5.9	9
32	On the Effect of Nonequilibrium Plasma on the Minimum Ignition EnergyPart 1: Discharge Model. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 615-623	1.3	9

31	Studies of high-pressure n-butane oxidation with CO ₂ dilution up to 100 atm using a supercritical-pressure jet-stirred reactor. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 279-287	5.9	9
30	Computational studies of diffusion cool flame structures of n-heptane with/without ozone sensitization with a reduced chemistry. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 1297-1305	1.6	7
29	Transient interactions between a premixed double flame and a vortex. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 1851-1859	5.9	7
28	Optical sensors for power transformer monitoring: A review. <i>High Voltage</i> , 2021 , 6, 367-386	4.1	7
27	Studies of high pressure 1,3-butadiene flame speeds and high temperature kinetics using hydrogen and oxygen sensitization. <i>Combustion and Flame</i> , 2019 , 200, 135-141	5.3	6
26	In Situ Identification of NNH and N ₂ H ₂ by Using Molecular-Beam Mass Spectrometry in Plasma-Assisted Catalysis for NH ₃ Synthesis. <i>ACS Energy Letters</i> , 53-58	20.1	6
25	Numerical Studies of Novel Inwardly Off-Center Shearing Jet-Stirred Reactor. <i>AIAA Journal</i> , 2018 , 56, 3388-3392	2.1	5
24	Kinetic effects of n-propylbenzene on n-dodecane counterflow nonpremixed cool flames. <i>Combustion and Flame</i> , 2019 , 208, 262-272	5.3	5
23	Development of an Ethanol Reduced Kinetic Mechanism Based on the Quasi-Steady State Assumption and Feasibility Evaluation for Multi-Dimensional Flame Analysis. <i>Journal of Thermal Science and Technology</i> , 2010 , 5, 189-199	0.6	5
22	Kinetic Enhancement of Microchannel Detonation Transition by Ozone Addition to Acetylene Mixtures. <i>AIAA Journal</i> , 2019 , 57, 476-481	2.1	5
21	Studies of the dynamics of autoignition assisted outwardly propagating spherical cool and double flames under shock-tube conditions. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 2275-2283	5.9	5
20	Turbulent nonpremixed cool flames: Experimental measurements, Direct Numerical Simulation, and manifold-based combustion modeling. <i>Combustion and Flame</i> , 2019 , 209, 144-154	5.3	4
19	LES modelling of turbulent non-premixed jet flames with correlated dynamic adaptive chemistry. <i>Combustion Theory and Modelling</i> , 2018 , 22, 694-713	1.5	3
18	Extreme Low-Temperature Combustion Chemistry: Ozone-Initiated Oxidation of Methyl Hexanoate. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 9897-9914	2.8	3
17	The radical index and the effect of oxygen concentration on non-premixed cool flame extinction of large n-alkanes. <i>Combustion and Flame</i> , 2021 , 231, 111471	5.3	3
16	Low- and intermediate-temperature oxidation of dimethyl ether up to 100 atm in a supercritical pressure jet-stirred reactor. <i>Combustion and Flame</i> , 2022 , 112059	5.3	3
15	Programmable heating and quenching for efficient thermochemical synthesis.. <i>Nature</i> , 2022 , 605, 470-476	56.4	3
14	Counterflow Experiments and Kinetic Modeling of Dimethyl Ether/Methane Cool Diffusion Flames 2018 ,		2

13	A New Cool Flame: Establishment and Studies of Dynamics and Kinetics 2014 ,		2
12	Ligand Effects and Synthesis of NaYF ₄ Based Up and Downconversion Colloidal Nanophosphors. <i>ACS Symposium Series</i> , 2011 , 71-85	0.4	2
11	Simultaneous single-shot rotation-vibration non-equilibrium thermometry using pure rotational fs/ps CARS coherence beating.. <i>Optics Letters</i> , 2022 , 47, 1351-1354	3	2
10	Promoting Si-graphite composite anodes with SWCNT additives for half and NCM811 full lithium ion batteries and assessment criteria from an industrial perspective. <i>Frontiers in Energy</i> , 2019 , 13, 626-635	3.6	2
9	Studies of autoignition-assisted nonpremixed cool flames. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 2333-2340	5.9	2
8	Studies of Ozone-Sensitized Low- and High-Temperature Oxidations of Diethyl Carbonate. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 1760-1765	2.8	2
7	On the Effect of Nonequilibrium Plasma on the Minimum Ignition Energy: Part 2. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 3283-3287	1.3	1
6	OH concentration and temperature measured by femtosecond cavity enhanced absorption spectroscopy in a nanosecond-pulsed dielectric barrier discharge 2022 ,		1
5	Rotation-vibration non-equilibrium measurement using pure rotational fs/ps CARS coherence beating 2022 ,		1
4	Experimental and computational investigations of ethane and ethylene kinetics with copper oxide particles for Chemical Looping Combustion. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 5249-5257	5.9	1
3	Kinetic studies of excited singlet oxygen atom O(1D) reactions with ethanol. <i>International Journal of Chemical Kinetics</i> , 2021 , 53, 688-701	1.4	0
2	Modeling of the effects of non-equilibrium excitation and electrode geometry on H ₂ /air ignition in a nanosecond plasma discharge. <i>Combustion and Flame</i> , 2022 , 240, 112046	5.3	0
1	Femtosecond ultraviolet laser absorption spectroscopy for simultaneous measurements of temperature and OH concentration. <i>Applied Physics Letters</i> , 2022 , 120, 201103	3.4	0