Yuyang Li

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2826264/publications.pdf

Version: 2024-02-01

131	5,496	66343	88630
papers	citations	42 h-index	70 g-index

132	132	132	2117
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An experimental and kinetic modeling study of premixed NH3/CH4/O2/Ar flames at low pressure. Combustion and Flame, 2009, 156, 1413-1426.	5.2	359
2	Experimental and kinetic modeling investigation on the laminar flame propagation of ammonia under oxygen enrichment and elevated pressure conditions. Combustion and Flame, 2019, 210, 236-246.	5.2	275
3	Recent Applications of Synchrotron VUV Photoionization Mass Spectrometry: Insight into Combustion Chemistry. Accounts of Chemical Research, 2010, 43, 68-78.	15.6	209
4	Identification of combustion intermediates in isomeric fuel-rich premixed butanolâ€“oxygen flames at low pressure. Combustion and Flame, 2007, 148, 198-209.	5.2	189
5	Experimental Study of a Fuel-Rich Premixed Toluene Flame at Low Pressure. Energy & Fuels, 2009, 23, 1473-1485.	5.1	184
6	Investigation on the pyrolysis and oxidation of toluene over a wide range conditions. I. Flow reactor pyrolysis and jet stirred reactor oxidation. Combustion and Flame, 2015, 162, 3-21.	5.2	177
7	The vacuum ultraviolet beamline/endstations atÂNSRL dedicated to combustion research. Journal of Synchrotron Radiation, 2016, 23, 1035-1045.	2.4	149
8	An experimental and kinetic modeling study of three butene isomers pyrolysis at low pressure. Combustion and Flame, 2012, 159, 905-917.	5.2	141
9	An experimental study of the premixed benzene/oxygen/argon flame with tunable synchrotron photoionization. Proceedings of the Combustion Institute, 2007, 31, 555-563.	3.9	131
10	Enhancement of ammonia combustion with partial fuel cracking strategy: Laminar flame propagation and kinetic modeling investigation of NH3/H2/N2/air mixtures up to 10 atm. Combustion and Flame, 2021, 231, 111472.	5.2	120
11	Investigation on chemical structures of premixed toluene flames at low pressure. Proceedings of the Combustion Institute, 2011, 33, 593-600.	3.9	113
12	Speciation and the laminar burning velocities of poly(oxymethylene) dimethyl ether 3 (POMDME3) flames: An experimental and modeling study. Proceedings of the Combustion Institute, 2017, 36, 1269-1278.	3.9	112
13	Investigation on the pyrolysis and oxidation of toluene over a wide range conditions. II. A comprehensive kinetic modeling study. Combustion and Flame, 2015, 162, 22-40.	5.2	108
14	Experimental and kinetic modeling study of 2,5-dimethylfuran pyrolysis at various pressures. Combustion and Flame, 2014, 161, 2496-2511.	5.2	103
15	A comprehensive experimental study of low-pressure premixed C3-oxygenated hydrocarbon flames with tunable synchrotron photoionization. Combustion and Flame, 2008, 152, 336-359.	5.2	87
16	Experimental and kinetic modeling study of pyrolysis and oxidation of n-decane. Combustion and Flame, 2014, 161, 1701-1715.	5.2	87
17	Investigation on fuel-rich premixed flames of monocyclic aromatic hydrocarbons: Part I. Intermediate identification and mass spectrometric analysis. Combustion and Flame, 2010, 157, 143-154.	5.2	83
18	Exploration on laminar flame propagation of ammonia and syngas mixtures up to 10Âatm. Combustion and Flame, 2020, 220, 368-377.	5.2	79

#	Article	IF	Citations
19	An experimental and kinetic modeling study of a premixed nitromethane flame at low pressure. Proceedings of the Combustion Institute, 2009, 32, 311-318.	3.9	70
20	Kinetics of ethylcyclohexane pyrolysis and oxidation: An experimental and detailed kinetic modeling study. Combustion and Flame, 2015, 162, 2873-2892.	5.2	70
21	Kinetic modeling study of benzene and PAH formation in laminar methane flames. Combustion and Flame, 2015, 162, 1692-1711.	5.2	67
22	Investigation of the rich premixed laminar acetylene/oxygen/argon flame: Comprehensive flame structure and special concerns of polyynes. Proceedings of the Combustion Institute, 2009, 32, 1293-1300.	3.9	66
23	A comprehensive experimental and kinetic modeling study of ethylbenzene combustion. Combustion and Flame, 2016, 166, 255-265.	5.2	65
24	Experimental and kinetic modeling study of 2-butanol pyrolysis and combustion. Combustion and Flame, 2013, 160, 1939-1957.	5.2	58
25	Investigation on laminar burning velocities of benzene, toluene and ethylbenzene up to 20â€¯atm. Combustion and Flame, 2017, 184, 312-323.	5.2	58
26	Experimental and modeling investigation on premixed ethylbenzene flames at low pressure. Proceedings of the Combustion Institute, 2011, 33, 617-624.	3.9	56
27	An experimental and kinetic modeling study of premixed nitromethane flames at low pressure. Proceedings of the Combustion Institute, 2011, 33, 407-414.	3.9	55
28	Experimental and kinetic modeling study of tetralin pyrolysis at low pressure. Proceedings of the Combustion Institute, 2013, 34, 1739-1748.	3.9	53
29	Laminar flame speeds, counterflow ignition, and kinetic modeling of the butene isomers. Proceedings of the Combustion Institute, 2015, 35, 309-316.	3.9	53
30	An experimental study of low-pressure premixed pyrrole/oxygen/argon flames with tunable synchrotron photoionization. Combustion and Flame, 2007, 151, 347-365.	5.2	52
31	Experimental and kinetic modeling investigation on laminar premixed benzene flames with various equivalence ratios. Proceedings of the Combustion Institute, 2015, 35, 855-862.	3.9	52
32	Low-temperature gas-phase oxidation of diethyl ether: Fuel reactivity and fuel-specific products. Proceedings of the Combustion Institute, 2019, 37, 511-519.	3.9	52
33	An experimental study of the rich premixed ethylbenzene flame at low pressure. Proceedings of the Combustion Institute, 2009, 32, 647-655.	3.9	51
34	An experimental and modeling study of methyl propanoate pyrolysis at low pressure. Combustion and Flame, 2013, 160, 1958-1966.	5.2	50
35	Experimental and kinetic modeling investigation on pyrolysis and combustion of n-butane and i-butane at various pressures. Combustion and Flame, 2018, 191, 126-141.	5.2	50
36	Investigation on primary decomposition of ethylcyclohexane at atmospheric pressure. Proceedings of the Combustion Institute, 2015, 35, 367-375.	3.9	47

#	Article	IF	Citations
37	Experimental and kinetic modeling study of styrene combustion. Combustion and Flame, 2015, 162, 1868-1883.	5.2	47
38	Pyrolysis of n-Butylbenzene at Various Pressures: Influence of Long Side-Chain Structure on Alkylbenzene Pyrolysis. Energy & Fuels, 2017, 31, 14270-14279.	5.1	47
39	Experimental and kinetic modeling study of n-propanol and i-propanol combustion: Flow reactor pyrolysis and laminar flame propagation. Combustion and Flame, 2019, 207, 171-185.	5.2	47
40	Experimental and kinetic modeling study of premixed o-xylene flames. Proceedings of the Combustion Institute, 2015, 35, 1745-1752.	3.9	45
41	Investigation on the oxidation chemistry of methanol in laminar premixed flames. Combustion and Flame, 2017, 180, 20-31.	5.2	45
42	Kinetics of Decomposition and Isomerization of Methylcyclohexane: Starting Point for Studying Monoalkylated Cyclohexanes Combustion. Energy & Fuels, 2013, 27, 1679-1687.	5.1	44
43	Acetaldehyde oxidation at low and intermediate temperatures: An experimental and kinetic modeling investigation. Combustion and Flame, 2018, 191, 431-441.	5.2	43
44	Experimental and theoretical investigation on cellular instability of methanol/air flames. Fuel, 2018, 225, 95-103.	6.4	42
45	An experimental and kinetic modeling investigation on a rich premixed n-propylbenzene flame at low pressure. Proceedings of the Combustion Institute, 2013, 34, 1785-1793.	3.9	41
46	Effect of the pressure on the catalytic oxidation of volatile organic compounds over Ag/Al2O3 catalyst. Applied Catalysis B: Environmental, 2009, 89, 659-664.	20.2	40
47	Experimental and kinetic modeling study of PAH formation in methane coflow diffusion flames doped with n-butanol. Combustion and Flame, 2014, 161, 657-670.	5.2	40
48	A comprehensive experimental and kinetic modeling study of n-propylbenzene combustion. Combustion and Flame, 2017, 186, 178-192.	5.2	40
49	Lean Premixed Gasoline/Oxygen Flame Studied with Tunable Synchrotron Vacuum UV Photoionization. Energy & Fuels, 2006, 20, 1505-1513.	5.1	38
50	Thermal Decomposition of Glycidyl Azide Polymer Studied by Synchrotron Photoionization Mass Spectrometry. Journal of Physical Chemistry B, 2007, 111, 2449-2455.	2.6	36
51	The tunable VUV single-photon ionization mass spectrometry for the analysis of individual components in gasoline. International Journal of Mass Spectrometry, 2007, 263, 30-37.	1.5	36
52	Influence of the biofuel isomers diethyl ether and n-butanol on flame structure and pollutant formation in premixed n-butane flames. Combustion and Flame, 2017, 175, 47-59.	5.2	36
53	Experimental and kinetic modeling study of n-pentanol pyrolysis and combustion. Combustion and Flame, 2015, 162, 3277-3287.	5.2	35
54	Experimental and kinetic modeling investigation on anisole pyrolysis: Implications on phenoxy and cyclopentadienyl chemistry. Combustion and Flame, 2019, 201, 187-199.	5.2	34

#	Article	IF	Citations
55	Interstellar Enols Are Formed in Plasma Discharges of Alcohols. Astrophysical Journal, 2008, 676, 416-419.	4.5	32
56	The Effects of MTBE/Ethanol Additives on Toxic Species Concentration in Gasoline Flame. Energy & Fuels, 2009, 23, 3543-3548.	5.1	32
57	Experimental and kinetic modeling study of 1-hexene combustion at various pressures. Combustion and Flame, 2016, 173, 151-160.	5.2	32
58	Identification of Combustion Intermediates in Low-Pressure Premixed Pyridine/Oxygen/Argon Flames. Journal of Physical Chemistry A, 2008, 112, 13549-13555.	2.5	31
59	Promotion Effect of H₂ on Ethanol Oxidation and NO_x Reduction with Ethanol over Ag/Al₂O₃ Catalyst. Environmental Science & Technology, 2015, 49, 481-488.	10.0	31
60	Experimental and kinetic modeling investigation on ethylcyclohexane low-temperature oxidation in a jet-stirred reactor. Combustion and Flame, 2020, 214, 211-223.	5.2	31
61	Investigation on laminar flame propagation of n-butanol/air and n-butanol/O2/He mixtures at pressures up to 20Âatm. Combustion and Flame, 2018, 191, 368-380.	5.2	30
62	Experimental and kinetic modeling study of tert-butanol combustion at low pressure. Energy, 2012, 43, 94-102.	8.8	29
63	Experimental and kinetic modeling study of i-butanol pyrolysis and combustion. Combustion and Flame, 2014, 161, 1955-1971.	5.2	28
64	Characterizing ammonia and nitric oxide interaction with outwardly propagating spherical flame method. Proceedings of the Combustion Institute, 2021, 38, 2477-2485.	3.9	27
65	A thermal decomposition study of pine wood under ambient pressure using thermogravimetry combined with synchrotron vacuum ultraviolet photoionization mass spectrometry. Proceedings of the Combustion Institute, 2017, 36, 2217-2224.	3.9	26
66	Probing the low-temperature chemistry of di-n-butyl ether: Detection of previously unobserved intermediates. Combustion and Flame, 2019, 210, 9-24.	5.2	26
67	An Experimental Study of Rich Premixed Gasoline/O2/Ar Flame with Tunable Synchrotron Vacuum Ultraviolet Photoionization. Energy & Fuels, 2007, 21, 1931-1941.	5.1	25
68	A comprehensive experimental and kinetic modeling study of tert-butanol combustion. Combustion and Flame, 2016, 169, 154-170.	5.2	22
69	Study of Low-Pressure Premixed Dimethyl Ether/Hydrogen/Oxygen/Argon Laminar Flames with Photoionization Mass Spectrometry. Energy & Fuels, 2010, 24, 1628-1635.	5.1	21
70	New insights into propanal oxidation at low temperatures: An experimental and kinetic modeling study. Proceedings of the Combustion Institute, 2019, 37, 565-573.	3.9	21
71	Exploring pyrolysis and oxidation chemistry of o-xylene at various pressures with special concerns on PAH formation. Combustion and Flame, 2021, 228, 351-363.	5.2	21
72	Experimental and kinetic modeling study of laminar coflow diffusion methane flames doped with 2-butanol. Proceedings of the Combustion Institute, 2015, 35, 863-871.	3.9	20

#	Article	IF	Citations
73	Experimental and kinetic modeling study of premixed n-butylbenzene flames. Proceedings of the Combustion Institute, 2017, 36, 815-823.	3.9	20
74	Experimental and kinetic modeling investigation on laminar flame propagation of CH4/CO mixtures at various pressures: Insight into the transition from CH4-related chemistry to CO-related chemistry. Combustion and Flame, 2019, 209, 481-492.	5.2	20
75	Experimental and kinetic modeling investigation on decalin pyrolysis at low to atmospheric pressures. Combustion and Flame, 2016, 167, 228-237.	5.2	18
76	Low-temperature chemistry triggered by probe cooling in a low-pressure premixed flame. Combustion and Flame, 2019, 204, 260-267.	5.2	18
77	Experimental and kinetic modeling investigation on sec-butylbenzene combustion: Flow reactor pyrolysis and laminar flame propagation at various pressures. Combustion and Flame, 2020, 211, 18-31.	5.2	16
78	Predictive kinetics on the formation and decomposition of ethylbenzene. Proceedings of the Combustion Institute, 2017, 36, 533-542.	3.9	15
79	Challenges and perspectives of combustion chemistry research. Science China Chemistry, 2017, 60, 1391-1401.	8.2	15
80	Experimental and kinetic modeling study on flow reactor pyrolysis of iso-pentanol: Understanding of iso-pentanol pyrolysis chemistry and fuel isomeric effects of pentanol. Fuel, 2019, 257, 116039.	6.4	15
81	Assessment of single-shot temperature measurements by thermally-assisted OH PLIF using excitation in the A2Î£+â€“X2Î (1-0) band. Proceedings of the Combustion Institute, 2021, 38, 1877-1883.	3.9	15
82	Study of combustion intermediates in fuelâ€rich methyl methacrylate flame with tunable synchrotron vacuum ultraviolet photoionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 85-92.	1.5	14
83	Pyrolysis of 2-methyl-1-butanol at low and atmospheric pressures: Mass spectrometry and modeling studies. Proceedings of the Combustion Institute, 2015, 35, 409-417.	3.9	14
84	Experimental and kinetic modeling study of laminar premixed decalin flames. Proceedings of the Combustion Institute, 2017, 36, 1193-1202.	3.9	14
85	Evolution of structure and oxidation reactivity from early-stage soot to mature soot sampled from a laminar coflow diffusion flame of ethylene. Combustion and Flame, 2021, 228, 202-209.	5.2	14
86	Low temperature plasma diagnostics with tunable synchrotron vacuum ultraviolet photoionization mass spectrometry. Review of Scientific Instruments, 2008, 79, 103504.	1.3	13
87	Experimental and kinetic modeling study of laminar coflow diffusion methane flames doped with iso-butanol. Proceedings of the Combustion Institute, 2017, 36, 1259-1267.	3.9	13
88	Pyrolysis of butane-2,3â€‘dione from low to high pressures: Implications for methyl-related growth chemistry. Combustion and Flame, 2019, 200, 69-81.	5.2	13
89	Insight into fuel isomeric effects on laminar flame propagation of pentanones. Proceedings of the Combustion Institute, 2021, 38, 2135-2142.	3.9	13
90	Study on combustion of gasoline/MTBE in laminar flame with synchrotron radiation. Chemosphere, 2007, 67, 2065-2071.	8.2	11

#	Article	IF	Citations
91	Revisit laminar premixed ethylene flames at elevated pressures: A mass spectrometric and laminar flame propagation study. Combustion and Flame, 2021, 230, 111422.	5.2	11
92	Elevated pressure low-temperature oxidation of linear five-heavy-atom fuels: diethyl ether, n-pentane, and their mixture. Zeitschrift Fur Physikalische Chemie, 2020, 234, 1269-1293.	2.8	11
93	Unraveling Pressure Effects in Laminar Flame Propagation of Ammonia: A Comparative Study with Hydrogen, Methane, and Ammonia/Hydrogen. Energy & Fuels, 2022, 36, 8528-8537.	5.1	11
94	Influence of Thermal Treatment of HUSY on Catalytic Pyrolysis of Polypropylene: An Online Photoionization Mass Spectrometric Study. Energy & Fuels, 2016, 30, 5122-5129.	5.1	10
95	Exploring the low-temperature oxidation chemistry of cyclohexane in a jet-stirred reactor: An experimental and kinetic modeling study. Chinese Journal of Chemical Physics, 2018, 31, 537-546.	1.3	10
96	An experimental study of premixed laminar methane/oxygen/argon flames doped with hydrogen at low pressure with synchrotron photoionization. Science Bulletin, 2008, 53, 1262-1269.	9.0	9
97	Experimental and kinetic modeling investigation of rich premixed toluene flames doped with n-butanol. Physical Chemistry Chemical Physics, 2018, 20, 10628-10636.	2.8	9
98	Characterizing the fuel-specific combustion chemistry of acetic acid and propanoic acid: Laminar flame propagation and kinetic modeling studies. Proceedings of the Combustion Institute, 2021, 38, 449-457.	3.9	9
99	Unraveling synergistic effects on pyrolysis reactivity and indene formation in co-pyrolysis of toluene and acetylene. Proceedings of the Combustion Institute, 2021, 38, 1413-1421.	3.9	9
100	Exploring the low-temperature oxidation chemistry of 1-butene and i-butene triggered by dimethyl ether. Proceedings of the Combustion Institute, 2021, 38, 289-298.	3.9	9
101	A comprehensive study on low-temperature oxidation chemistry of cyclohexane. II. Experimental and kinetic modeling investigation. Combustion and Flame, 2022, 235, 111550.	5.2	9
102	Probing the fuel-specific intermediates in the low-temperature oxidation of 1-heptene and modeling interpretation. Proceedings of the Combustion Institute, 2021, 38, 385-394.	3.9	8
103	Exploring combustion chemistry of ethyl valerate at various pressures: Pyrolysis, laminar burning velocity and kinetic modeling. Combustion and Flame, 2021, 227, 27-38.	5.2	8
104	Mini Review of Current Combustion Research Progress of Biodiesel and Model Compounds for Gas Turbine Application. Energy & Fuels, 2021, 35, 13569-13584.	5.1	8
105	Experimental and kinetic modeling study of di-n-propyl ether and diisopropyl ether combustion: Pyrolysis and laminar flame propagation velocity. Combustion and Flame, 2022, 237, 111809.	5.2	8
106	Conformation-dependent low-temperature oxidation chemistry of methylcyclohexane: First oxygen addition and chain-branching. Combustion and Flame, 2022, 243, 111963.	5.2	8
107	Combustion Intermediates in Fuel-Rich 1,4-Dioxane Flame Studied by Tunable Synchrotron Vacuum Ultraviolet Photoionization. Journal of Physical Chemistry A, 2009, 113, 1800-1806.	2.5	7
108	Liquid film thickness measurements on a plate based on brightness curve analysis with acute PLIF method. International Journal of Multiphase Flow, 2021, 136, 103549.	3.4	7

#	Article	IF	Citations
109	Insights into the Decomposition and Oxidation Chemistry of p-Xylene in Laminar Premixed Flames. Journal of Physical Chemistry A, 2021, 125, 3189-3197.	2.5	7
110	Probing pyrolysis chemistry of 1-heptene pyrolysis with insight into fuel molecular structure effects. Combustion and Flame, 2021, 227, 79-94.	5.2	7
111	Low-temperature oxidation chemistry of 2,4,4-trimethyl-1-pentene (diisobutylene) triggered by dimethyl ether (DME): A jet-stirred reactor oxidation and kinetic modeling investigation. Combustion and Flame, 2021, 234, 111629.	5.2	7
112	Investigation on n-pentylbenzene combustion at various pressures: Insight into effects of side-chain length on alkylbenzene combustion. Combustion and Flame, 2022, 238, 111976.	5.2	7
113	Enhancement of biogas combustion by co-firing dimethyl ether in a gas turbine model combustor. Fuel, 2022, 316, 123446.	6.4	7
114	Investigation on spherically expanding flame temperature of n-butane/air mixtures with tunable diode laser absorption spectroscopy. Proceedings of the Combustion Institute, 2019, 37, 1589-1596.	3.9	6
115	Unraveling chemical structure of laminar premixed tetralin flames at low pressure with photoionization mass spectrometry and kinetic modeling. International Journal of Chemical Kinetics, 2021, 53, 154-163.	1.6	6
116	A comprehensive study on low-temperature oxidation chemistry of cyclohexane. I. Conformational analysis and theoretical study of first and second oxygen addition. Combustion and Flame, 2022, 235, 111658.	5.2	6
117	Comparative investigation on tetramethylsilane and neopentane combustion: Jet-stirred reactor pyrolysis and kinetic modeling. Combustion and Flame, 2022, 237, 111900.	5.2	6
118	On the Flow Structure and Dynamics of Methane and Syngas Lean Flames in a Model Gas-Turbine Combustor. Energies, 2021, 14, 8267.	3.1	6
119	Catalytic decomposition of methane on impregnated nickel based anodes with molecular-beam mass spectrometry and tunable synchrotron vacuum ultraviolet photoionization. International Journal of Hydrogen Energy, 2012, 37, 8354-8359.	7.1	5
120	Exploring fuel isomeric effects on laminar flame propagation of butylbenzenes at various pressures. Proceedings of the Combustion Institute, 2021, 38, 2419-2429.	3.9	5
121	Flow reactor pyrolysis of iso-butylbenzene and tert-butylbenzene at various pressures: Insight into fuel isomeric effects on pyrolysis chemistry of butylbenzenes. Proceedings of the Combustion Institute, 2021, 38, 1423-1432.	3.9	5
122	Exploring combustion chemistry of 1â€pentene: Flow reactor pyrolysis at various pressures and development of a detailed combustion model. International Journal of Chemical Kinetics, 2021, 53, 514-526.	1.6	5
123	Exploration on Thermal Decomposition of Cyclopentanone: A Flow Reactor Pyrolysis and Kinetic Modeling Study. Energy & Fuels, 2021, 35, 14023-14034.	5.1	5
124	Investigation on 1-heptene/air laminar flame propagation under elevated pressures. Chinese Journal of Chemical Physics, 2019, 32, 99-106.	1.3	4
125	Theoretical Investigation on H-Abstraction Reactions of Silanes with H and CH₃ Attacking: A Comparative Study with Alkane Counterparts. ACS Omega, 2022, 7, 5558-5569.	3.5	3
126	Study of low-pressure premixed laminar n-heptane+propane/oxygen/nitrogen flames. Science Bulletin, 2009, 54, 1477-1486.	9.0	2

#	Article	IF	Citations
127	Effects of devolatilization temperature on chemical structure and oxidation reactivity of soot sampled from a coflow diffusion ethylene flame. Fuel, 2021, 293, 120424.	6.4	2
128	Numerical investigation on flow characteristics and emissions under varying swirler vane angle in a lean premixed combustor. Case Studies in Thermal Engineering, 2022, 31, 101800.	5.7	2
129	Unraveling combustion chemistry of tetramethoxysilane in flow reactor pyrolysis and laminar flame propagation. Combustion and Flame, 2022, 242, 112169.	5.2	2
130	Exploration of the pyrolysis chemistry of 1,1-diethoxybutane: A flow reactor and kinetic modeling study. Fuel, 2019, 236, 437-444.	6.4	1
131	Combustion Chemistry Study with Synchrotron VUV Photoionization Mass Spectrometry. , 2016, , .		0