Philippe Dagaut

List of Publications by Year
in descending order

274 papers	13,961 citations	15504 65 h-index	33894 99 g-index
286 all docs	286 docs citations	286 times ranked	4553 citing authors

#	Article	IF	Citations
1	The ignition, oxidation, and combustion of kerosene: A review of experimental and kinetic modeling. Progress in Energy and Combustion Science, 2006, 32, 48-92.	31.2	506
2	The oxidation of hydrogen cyanide and related chemistry. Progress in Energy and Combustion Science, 2008, 34, 1-46.	31.2	305
3	An experimental and kinetic modeling study of n-butanol combustion. Combustion and Flame, 2009, 156, 852-864.	5.2	279
4	On the kinetics of hydrocarbons oxidation from natural gas to kerosene and diesel fuel. Physical Chemistry Chemical Physics, 2002, 4, 2079-2094.	2.8	236
5	A detailed chemical kinetic modeling, ignition delay time and jet-stirred reactor study of methanol oxidation. Combustion and Flame, 2016, 165, 125-136.	5.2	232
6	A wide-ranging kinetic modeling study of methyl butanoate combustion. Proceedings of the Combustion Institute, 2007, 31, 305-311.	3.9	221
7	A chemical kinetic study of n-butanol oxidation at elevated pressure in a jet stirred reactor. Proceedings of the Combustion Institute, 2009, 32, 229-237.	3.9	201
8	The combustion of kerosene: Experimental results and kinetic modelling using 1- to 3-component surrogate model fuels. Fuel, 2006, 85, 944-956.	6.4	194
9	High Pressure Oxidation of Liquid Fuels From Low to High Temperature. 1. n-Heptane and iso-Octane.. Combustion Science and Technology, 1993, 95, 233-260.	2.3	190
10	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
11	Numerical and experimental study of ethanol combustion and oxidation in laminar premixed flames and in jet-stirred reactor. Combustion and Flame, 2011, 158, 705-725.	5.2	158
12	Experimental study of the oxidation of n-heptane in a jet stirred reactor from low to high temperature and pressures up to 40 atm. Combustion and Flame, 1995, 101, 132-140.	5.2	153
13	Oxidation, ignition and combustion of toluene: Experimental and detailed chemical kinetic modelingElectronic supplementary information (ESI) available: Arrhenius parameters for reactions. See http://www.rsc.org/suppdata/cp/b1/b110282f/. Physical Chemistry Chemical Physics, 2002, 4, 1846-1854.	2.8	153
14	Rapeseed oil methyl ester oxidation over extended ranges of pressure, temperature, and equivalence ratio: Experimental and modeling kinetic study. Proceedings of the Combustion Institute, 2007, 31, 2955-2961.	3.9	152
15	Effects of Dilution on Laminar Burning Velocity of Premixed Methane/Air Flames. Energy & Fuels, 2011, 25, 948-954.	5.1	151
16	A comparison of saturated and unsaturated C4 fatty acid methyl esters in an opposed flow diffusion flame and a jet stirred reactor. Proceedings of the Combustion Institute, 2007, 31, 1015-1022.	3.9	145
17	Experimental and chemical kinetic modeling study of small methyl esters oxidation: Methyl (E)-2-butenoate and methyl butanoate. Combustion and Flame, 2008, 155, 635-650.	5.2	143
18	A comprehensive experimental and detailed chemical kinetic modelling study of 2,5-dimethylfuran pyrolysis and oxidation. Combustion and Flame, 2013, 160, 2291-2318.	5.2	143

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19	Detection and Identification of the Keto-Hydroperoxide (HOOCH₂OCHO) and Other Intermediates during Low-Temperature Oxidation of Dimethyl Ether. Journal of Physical Chemistry A, 2015, 119, 7361-7374.	2.5	143
20	The oxidation and ignition of dimethylether from low to high temperature (500â€“1600 K): Experiments and kinetic modeling. Proceedings of the Combustion Institute, 1998, 27, 361-369.	0.3	141
21	HCCI combustion: Effect of NO in EGR. Proceedings of the Combustion Institute, 2007, 31, 2879-2886.	3.9	141
22	An experimental and kinetic modeling study of n -hexane oxidation. Combustion and Flame, 2015, 162, 4194-4207.	5.2	124
23	Experimental study and detailed kinetic modeling of the effect of exhaust gas on fuel combustion: mutual sensitization of the oxidation of nitric oxide and methane over extended temperature and pressure ranges. Combustion and Flame, 2005, 140, 161-171.	5.2	117
24	Unraveling the structure and chemical mechanisms of highly oxygenated intermediates in oxidation of organic compounds. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13102-13107.	7.1	117
25	Methane Oxidation: Experimental and Kinetic Modeling Study. Combustion Science and Technology, 1991, 77, 127-148.	2.3	115
26	Experimental and detailed kinetic model for the oxidation of a Gas to Liquid (GtL) jet fuel. Combustion and Flame, 2014, 161, 835-847.	5.2	111
27	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
28	Kerosene combustion at pressures up to 40 atm: Experimental study and detailed chemical kinetic modeling. Proceedings of the Combustion Institute, 1994, 25, 919-926.	0.3	107
29	Experimental and Detailed Modeling Study of the Effect of Water Vapor on the Kinetics of Combustion of Hydrogen and Natural Gas, Impact on NO_x. Energy & Fuels, 2009, 23, 725-734.	5.1	106
30	Auto-ignition and combustion characteristics in HCCI and JSR using 1-butanol/n-heptane and ethanol/n-heptane blends. Proceedings of the Combustion Institute, 2011, 33, 3007-3014.	3.9	106
31	The gas phase reactions of hydroxyl radicals with a series of esters over the temperature range 240-440 K. International Journal of Chemical Kinetics, 1988, 20, 177-186.	1.6	105
32	Chemical kinetic study of dimethylether oxidation in a jet stirred reactor from 1 to 10 ATM: Experiments and kinetic modeling. Proceedings of the Combustion Institute, 1996, 26, 627-632.	0.3	105
33	Oxidation kinetics of butanolâ€“gasoline surrogate mixtures in a jet-stirred reactor: Experimental and modeling study. Fuel, 2008, 87, 3313-3321.	6.4	105
34	Quantification of the Keto-Hydroperoxide (HOOCH₂OCHO) and Other Elusive Intermediates during Low-Temperature Oxidation of Dimethyl Ether. Journal of Physical Chemistry A, 2016, 120, 7890-7901.	2.5	104
35	Experimental and detailed kinetic modeling study of 1-pentanol oxidation in a JSR and combustion in a bomb. Proceedings of the Combustion Institute, 2011, 33, 367-374.	3.9	103
36	Acetylene Oxidation in a JSR From 1 to 10 Atm and Comprehensive Kinetic Modeling. Combustion Science and Technology, 1994, 102, 21-55.	2.3	102

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37	Influence of ozone on the combustion of n-heptane in a HCCI engine. Proceedings of the Combustion Institute, 2013, 34, 3005-3012.	3.9	98
38	The gas phase reactions of hydroxyl radicals with a series of aliphatic ethers over the temperature range 240-440 K. International Journal of Chemical Kinetics, 1988, 20, 41-49.	1.6	97
39	Experimental and Detailed Kinetic Modeling Study of the Effect of Ozone on the Combustion of Methane. Energy & Fuels, 2011, 25, 2909-2916.	5.1	96
40	A comprehensive experimental and modeling study of iso-pentanol combustion. Combustion and Flame, 2013, 160, 2712-2728.	5.2	95
41	Experimental and Kinetic Modeling Study of the Oxidation of Methyl Hexanoate. Energy & Fuels, 2008, 22, 1469-1479.	5.1	94
42	An experimental and modeling study of n -octanol combustion. Proceedings of the Combustion Institute, 2015, 35, 419-427.	3.9	94
43	Additional chain-branching pathways in the low-temperature oxidation of branched alkanes. Combustion and Flame, 2016, 164, 386-396.	5.2	94
44	An experimental and modelling study of n-pentane oxidation in two jet-stirred reactors: The importance of pressure-dependent kinetics and new reaction pathways. Proceedings of the Combustion Institute, 2017, 36, 441-448.	3.9	92
45	Experimental and kinetic modeling study of the effect of NO and SO2 on the oxidation of CO?H2 mixtures. International Journal of Chemical Kinetics, 2003, 35, 564-575.	1.6	90
46	Experimental and Modeling Study of the Kinetics of Oxidation of Ethanolâ˜'Gasoline Surrogate Mixtures (E85 Surrogate) in a Jet-Stirred Reactor. Energy & Fuels, 2008, 22, 3499-3505.	5.1	90
47	Kinetics of ethane oxidation. International Journal of Chemical Kinetics, 1991, 23, 437-455.	1.6	89
48	A comprehensive combustion chemistry study of 2,5-dimethylhexane. Combustion and Flame, 2014, 161, 1444-1459.	5.2	88
49	Ethylene pyrolysis and oxidation: A kinetic modeling study. International Journal of Chemical Kinetics, 1990, 22, 641-664.	1.6	87
50	The oxidation of n-Hexadecane: experimental and detailed kinetic modeling. Combustion and Flame, 2001, 125, 1128-1137.	5.2	87
51	Experimental and Modeling Study of the Kinetics of Oxidation of Butanolâ˜'n-Heptane Mixtures in a Jet-stirred Reactor. Energy & Fuels, 2009, 23, 3527-3535.	5.1	86
52	Experimental and numerical analysis of nitric oxide effect on the ignition of iso-octane in a single cylinder HCCI engine. Combustion and Flame, 2013, 160, 1476-1483.	5.2	86
53	Rate constants for the gas phase reactions of OH with C5 through C7 aliphatic alcohols and ethers: Predicted and experimental values. International Journal of Chemical Kinetics, 1988, 20, 541-547.	1.6	84
54	Oxidation of dimethoxymethane in a jet-stirred reactor. Combustion and Flame, 2001, 125, 1106-1117.	5.2	77

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55	Experimental and Detailed Kinetic Modeling Study of Isoamyl Alcohol (Isopentanol) Oxidation in a Jet-Stirred Reactor at Elevated Pressure. Energy & Fuels, 2011, 25, 4986-4998.	5.1	76
56	Investigation of iso-octane combustion in a homogeneous charge compression ignition engine seeded by ozone, nitric oxide and nitrogen dioxide. Proceedings of the Combustion Institute, 2015, 35, 3125-3132.	3.9	76
57	Nitric oxide interactions with hydrocarbon oxidation in a jet-stirred reactor at 10 atm. Combustion and Flame, 2006, 145, 512-520.	5.2	75
58	Experimental and modelling study of gasoline surrogate mixtures oxidation in jet stirred reactor and shock tube. Proceedings of the Combustion Institute, 2007, 31, 385-391.	3.9	73
59	Chemical Kinetic Study of the Effect of a Biofuel Additive on Jet-A1 Combustion. Journal of Physical Chemistry A, 2007, 111, 3992-4000.	2.5	72
60	Gas-phase reactions of hydroxyl radicals with the fuel additives methyl tert-butyl ether and tert-butyl alcohol over the temperature range 240-440 K. Environmental Science & Technology, 1988, 22, 842-844.	10.0	71
61	EFFECTS OF AIR CONTAMINATION ON THE COMBUSTION OF HYDROGENâ€"EFFECT OF NO AND NO2 ADDITION ON HYDROGEN IGNITION AND OXIDATION KINETICS. Combustion Science and Technology, 2006, 178, 1999-2024.	2.3	71
62	High pressure effects on the mutual sensitization of the oxidation of NO and CH4â€“C2H6 blends. Physical Chemistry Chemical Physics, 2007, 9, 4230.	2.8	71
63	Experimental and detailed kinetic modeling study of the high pressure oxidation of methanol sensitized by nitric oxide and nitrogen dioxide. Proceedings of the Combustion Institute, 2007, 31, 411-418.	3.9	71
64	Experimental and Modeling Study of the Oxidation Kinetics of n-Undecane and n-Dodecane in a Jet-Stirred Reactor. Energy & Fuels, 2012, 26, 4253-4268.	5.1	70
65	Experiments and Kinetic Modeling Study of NO-Reburning by Gases from Biomass Pyrolysis in a JSR. Energy & Fuels, 2003, 17, 608-613.	5.1	69
66	Experimental and modeling study of the oxidation of natural gas in a premixed flame, shock tube, and jet-stirred reactor. Combustion and Flame, 2004, 137, 109-128.	5.2	69
67	Experimental kinetic study of the oxidation of -xylene in a JSR and comprehensive detailed chemical kinetic modeling. Combustion and Flame, 2005, 141, 281-297.	5.2	68
68	n-Heptane cool flame chemistry: Unraveling intermediate species measured in a stirred reactor and motored engine. Combustion and Flame, 2018, 187, 199-216.	5.2	68
69	Experimental and modeling study of the kinetics of oxidation of ethanol-n-heptane mixtures in a jet-stirred reactor. Fuel, 2010, 89, 280-286.	6.4	67
70	A kinetic investigation of the gas-phase reactions of hydroxyl radicals with cyclic ketones and diones: mechanistic insights. The Journal of Physical Chemistry, 1988, 92, 4375-4377.	2.9	65
71	Chemical kinetic modeling of the supercritical-water oxidation of methanol. Journal of Supercritical Fluids, 1996, 9, 33-42.	3.2	65
72	The oxidation of a diesel fuel at 1â€“10atm: Experimental study in a JSR and detailed chemical kinetic modeling. Proceedings of the Combustion Institute, 2007, 31, 2939-2946.	3.9	65

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73	A comprehensive experimental and kinetic modeling study of ethylbenzene combustion. Combustion and Flame, 2016, 166, 255-265.	5.2	65
74	Experimental and detailed kinetic modeling study of hydrogen-enriched natural gas blend oxidation over extended temperature and equivalence ratio ranges. Proceedings of the Combustion Institute, 2005, 30, 2631-2638.	3.9	64
75	A jet-stirred reactor and kinetic modeling study of ethyl propanoate oxidation. Combustion and Flame, 2009, 156, 250-260.	5.2	64
76	Correlation between gas-phase and solution-phase reactivities of hydroxyl radicals towards saturated organic compounds. The Journal of Physical Chemistry, 1988, 92, 5024-5028.	2.9	63
77	Kinetic modeling of propane oxidation and pyrolysis. International Journal of Chemical Kinetics, 1992, 24, 813-837.	1.6	63
78	The Low Temperature Oxidation of DME and Mutual Sensitization of the Oxidation of DME and Nitric Oxide: Experimental and Detailed Kinetic Modeling. Combustion Science and Technology, 2001, 165, 61-84.	2.3	62
79	Detailed Kinetic Mechanism for the Oxidation of Vegetable Oil Methyl Esters: New Evidence from Methyl Heptanoate. Energy & Fuels, 2009, 23, 4254-4268.	5.1	62
80	Modeling the Oxidation of Mixtures of Primary Reference Automobile Fuels. Energy & Fuels, 2002, 16, 1186-1195.	5.1	61
81	Oxidation of H2/CO2 mixtures and effect of hydrogen initial concentration on the combustion of CH4 and CH4/CO2 mixtures: Experiments and modeling. Proceedings of the Combustion Institute, 2009, 32, 427-435.	3.9	60
82	Homogeneous Charge Compression Ignition Combustion of Primary Reference Fuels Influenced by Ozone Addition. Energy & Fuels, 2013, 27, 5495-5505.	5.1	60
83	Ozone applied to the homogeneous charge compression ignition engine to control alcohol fuels combustion. Applied Energy, 2015, 160, 566-580.	10.1	60
84	Experimental and Detailed Kinetic Modeling of the Oxidation of Methane and Methane/Syngas Mixtures and Effect of Carbon Dioxide Addition. Combustion Science and Technology, 2008, 180, 2046-2091.	2.3	59
85	Combustion in micro-channels with a controlled temperature gradient. Experimental Thermal and Fluid Science, 2016, 73, 79-86.	2.7	59
86	Kinetics of Oxidation of Commercial and Surrogate Diesel Fuels in a Jet-Stirred Reactor: Experimental and Modeling Studies. Energy & Fuels, 2010, 24, 1668-1676.	5.1	58
87	A chemical kinetic study of the oxidation of dibutyl-ether in a jet-stirred reactor. Combustion and Flame, 2017, 185, 4-15.	5.2	58
88	Kinetic measurements of the gas-phase reactions of hydroxyl radicals with hydroxy ethers, hydroxy ketones, and keto ethers. The Journal of Physical Chemistry, 1989, 93, 7838-7840.	2.9	57
89	Kinetics of 1-hexene oxidation in a JSR and a shock tube: Experimental and modeling study. Combustion and Flame, 2006, 147, 67-78.	5.2	55
90	Experimental and kinetic modeling of methyl octanoate oxidation in an opposed-flow diffusion flame and a jet-stirred reactor. Proceedings of the Combustion Institute, 2011, 33, 1037-1043.	3.9	55

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91	Experimental and Detailed Kinetic Modeling Study of Ethyl Pentanoate (Ethyl Valerate) Oxidation in a Jet Stirred Reactor and Laminar Burning Velocities in a Spherical Combustion Chamber. Energy & Fuels, 2012, 26, 4735-4748.	5.1	55
92	Kinetics of Oxidation of 2-Butanol and Isobutanol in a Jet-Stirred Reactor: Experimental Study and Modeling Investigation. Energy & Fuels, 2010, 24, 5244-5256.	5.1	54
93	Hydrogen-enriched natural gas blend oxidation under high-pressure conditions: Experimental and detailed chemical kinetic modeling. International Journal of Hydrogen Energy, 2006, 31, 505-515.	7.1	53
94	Experimental and Detailed Kinetic Modeling Study of 1-Hexanol Oxidation in a Pressurized Jet-Stirred Reactor and a Combustion Bomb. Energy & Fuels, 2010, 24, 5859-5875.	5.1	52
95	A Comparative Study of the Kinetics of Benzene Formation from Unsaturated C2 to C4 Hydrocarbons. Combustion and Flame, 1998, 113, 620-623.	5.2	51
96	Oxidation of Natural Gas, Natural Gas/Syngas Mixtures, and Effect of Burnt Gas Recirculation: Experimental and Detailed Kinetic Modeling. Journal of Engineering for Gas Turbines and Power, 2008, 130, .	1.1	51
97	Occurrence of NO-reburning in MILD combustion evidenced via chemical kinetic modeling. Fuel, 2006, 85, 2469-2478.	6.4	50
98	Oxidation of a Coal-to-Liquid Synthetic Jet Fuel: Experimental and Chemical Kinetic Modeling Study. Energy & Fuels, 2012, 26, 6070-6079.	5.1	50
99	Experimental and semi-detailed kinetic modeling study of decalin oxidation and pyrolysis over a wide range of conditions. Proceedings of the Combustion Institute, 2013, 34, 289-296.	3.9	50
100	Exploration of the oxidation chemistry of dimethoxymethane: Jet-stirred reactor experiments and kinetic modeling. Combustion and Flame, 2018, 193, 491-501.	5.2	50
101	Experimental and modeling studies of a biofuel surrogate compound: laminar burning velocities and jet-stirred reactor measurements of anisole. Combustion and Flame, 2018, 189, 325-336.	5.2	49
102	The gas phase reactions of hydroxyl radicals with a series of carboxylic acids over the temperature range 240-440 K. International Journal of Chemical Kinetics, 1988, 20, 331-338.	1.6	48
103	New insights into the peculiar behavior of laminar burning velocities of hydrogenâ€“air flames according to pressure and equivalence ratio. Combustion and Flame, 2014, 161, 2235-2241.	5.2	48
104	EXPERIMENTAL STUDY AND DETAILED KINETIC MODELING OF THE MUTUAL SENSITIZATION OF THE OXIDATION OF NITRIC OXIDE, ETHYLENE, AND ETHANE. Combustion Science and Technology, 2005, 177, 1767-1791.	2.3	47
105	Experimental and kinetic modeling study of styrene combustion. Combustion and Flame, 2015, 162, 1868-1883.	5.2	47
106	The reduction of NO by ethylene in a jet-stirred reactor at 1 atm: experimental and kinetic modelling. Combustion and Flame, 1999, 119, 494-504.	5.2	46
107	CFD simulations using the TDAC method to model iso-octane combustion for a large range of ozone seeding and temperature conditions in a single cylinder HCCI engine. Fuel, 2014, 137, 179-184.	6.4	46
108	Experimental and kinetic modeling study of the effect of SO2 on the reduction of NO by ammonia. Proceedings of the Combustion Institute, 2005, 30, 1211-1218.	3.9	45

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109	VAPORIZATION AND OXIDATION OF LIQUID FUEL DROPLETS AT HIGH TEMPERATURE AND HIGH PRESSURE: APPLICATION TON-ALKANES AND VEGETABLE OIL METHYL ESTERS. Combustion Science and Technology, 2004, 176, 499-529.	2.3	43
110	Laminar Burning Velocities of C₄â€“C₇ Ethyl Esters in a Spherical Combustion Chamber: Experimental and Detailed Kinetic Modeling. Energy & Fuels, 2012, 26, 6669-6677.	5.1	43
111	An experimental chemical kinetic study of the oxidation of diethyl ether in a jet-stirred reactor and comprehensive modeling. Combustion and Flame, 2018, 193, 453-462.	5.2	43
112	A Kinetic Modeling Study of Propene Oxidation in JSR and Flame. Combustion Science and Technology, 1992, 83, 167-185.	2.3	42
113	Oxidation of commercial and surrogate bio-Diesel fuels (B30) in a jet-stirred reactor at elevated pressure: Experimental and modeling kinetic study. Proceedings of the Combustion Institute, 2011, 33, 375-382.	3.9	42
114	Oscillating flames in micro-combustion. Combustion and Flame, 2016, 167, 392-394.	5.2	42
115	OXIDATION OF 1-METHYLNAPHTHALENE AT 1â€“13 ATM: EXPERIMENTAL STUDY IN A JSR AND DETAILED CHEMICAL KINETIC MODELING. Combustion Science and Technology, 2007, 179, 1261-1285.	2.3	41
116	Jet-stirred reactor and flame studies of propanal oxidation. Proceedings of the Combustion Institute, 2013, 34, 599-606.	3.9	41
117	Oxidation of oxygenated octane improvers: MTBE, ETBE, DIPE, and TAME. Proceedings of the Combustion Institute, 1998, 27, 353-360.	0.3	40
118	Mutual Sensitization of the Oxidation of Nitric Oxide and Simple Fuels Over an Extended Temperature Range: Experimental and Detailed Kinetic Modeling. Combustion Science and Technology, 1999, 148, 27-57.	2.3	40
119	Experimental and kinetic modeling of nitric oxide reduction by acetylene in an atmospheric pressure jet-stirred reactor. Fuel, 1999, 78, 1245-1252.	6.4	40
120	Oxidation of Ethylene and Propene in the Presence of CO₂and H₂O: Experimental and Detailed Kinetic Modeling Study. Combustion Science and Technology, 2010, 182, 333-349.	2.3	40
121	Experimental and modeling study of the oxidation of n- and iso-butanal. Combustion and Flame, 2013, 160, 1609-1626.	5.2	40
122	A comprehensive experimental and kinetic modeling study of n-propylbenzene combustion. Combustion and Flame, 2017, 186, 178-192.	5.2	40
123	An experimental study in a jet-stirred reactor and a comprehensive kinetic mechanism for the oxidation of methyl ethyl ketone. Proceedings of the Combustion Institute, 2017, 36, 459-467.	3.9	40
124	Experimental and kinetic modeling of the reduction of NO by propene at 1 atm. Combustion and Flame, 2000, 121, 651-661.	5.2	39
125	OXIDATION OF m-XYLENE IN A JSR: EXPERIMENTAL STUDY AND DETAILED CHEMICAL KINETIC MODELING. Combustion Science and Technology, 2007, 179, 813-844.	2.3	39
126	Experimental and Modeling Study of the Kinetics of Oxidation of Simple Biodieselâ^'Biobutanol Surrogates: Methyl Octanoateâ^'Butanol Mixtures. Energy & Fuels, 2010, 24, 3906-3916.	5.1	39

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127	The oxidation of n-butylbenzene: Experimental study in a JSR at 10atm and detailed chemical kinetic modeling. Proceedings of the Combustion Institute, 2011, 33, 209-216.	3.9	39
128	Laminar burning velocities of premixed nitromethane/air flames: An experimental and kinetic modeling study. Proceedings of the Combustion Institute, 2015, 35, 703-710.	3.9	39
129	Natural gas and blends oxidation and ignition: Experiments and modeling. Proceedings of the Combustion Institute, 1994, 25, 1563-1569.	0.3	38
130	Chemical Kinetic Study of the Oxidation of Isocetane (2,2,4,4,6,8,8-Heptamethylnonane) in a Jet-stirred Reactor: Experimental and Modeling. Energy & Fuels, 2009, 23, 2389-2395.	5.1	38
131	Experimental and kinetic modeling study of trans-methyl-3-hexenoate oxidation in JSR and the role of CC double bond. Combustion and Flame, 2014, 161, 818-825.	5.2	38
132	Exploring gasoline oxidation chemistry in jet stirred reactors. Fuel, 2019, 236, 1282-1292.	6.4	38
133	Kinetics of Oxidation of a Synthetic Jet Fuel in a Jet-Stirred Reactor: Experimental and Modeling Study. Energy & Fuels, 2010, 24, 4904-4911.	5.1	37
134	Experimental and Modeling Study of the Oxidation of 1-Butene and cis-2-Butene in a Jet-Stirred Reactor and a Combustion Vessel. Energy & Fuels, 2015, 29, 1107-1118.	5.1	37
135	NO reduction capacity of four major solid fuels in reburning conditions â€“ Experiments and modeling. Fuel, 2008, 87, 274-289.	6.4	36
136	New insights into the low-temperature oxidation of 2-methylhexane. Proceedings of the Combustion Institute, 2017, 36, 373-382.	3.9	36
137	Flash photolysis resonance fluorescence investigation of the gas-phase reactions of hydroxyl radicals with cyclic ethers. The Journal of Physical Chemistry, 1990, 94, 1881-1883.	2.9	35
138	2-Propanol Oxidation in a Pressurized Jet-Stirred Reactor (JSR) and Combustion Bomb: Experimental and Detailed Kinetic Modeling Study. Energy & Fuels, 2011, 25, 676-683.	5.1	35
139	Experimental and Detailed Kinetic Modeling Study of the Oxidation of 1-Propanol in a Pressurized Jet-Stirred Reactor (JSR) and a Combustion Bomb. Energy & Fuels, 2011, 25, 2013-2021.	5.1	35
140	An experimental and modeling study of diethyl carbonate oxidation. Combustion and Flame, 2015, 162, 1395-1405.	5.2	34
141	Elucidating reactivity regimes in cyclopentane oxidation: Jet stirred reactor experiments, computational chemistry, and kinetic modeling. Proceedings of the Combustion Institute, 2017, 36, 469-477.	3.9	34
142	Kinetics of 1,2-Dimethylbenzene Oxidation and Ignition: Experimental and Detailed Chemical Kinetic Modeling. Combustion Science and Technology, 2008, 180, 1748-1771.	2.3	32
143	The ignition and oxidation of allene and propyne: Experiments and kinetic modeling. Proceedings of the Combustion Institute, 1996, 26, 613-620.	0.3	31
144	Influence of EGR compounds on the oxidation of an HCCI-diesel surrogate. Proceedings of the Combustion Institute, 2009, 32, 2851-2859.	3.9	31

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145	Exploring the negative temperature coefficient behavior of acetaldehyde based on detailed intermediate measurements in a jet-stirred reactor. Combustion and Flame, 2018, 192, 120-129.	5.2	31
146	The oxidation of ethylene oxide in a jet-stirred reactor and its ignition in shock waves. Combustion and Flame, 1996, 106, 62-68.	5.2	30
147	Modeling of the Oxidation of Primary Reference Fuel in the Presence of Oxygenated Octane Improvers: Ethyl Tert-Butyl Ether and Ethanol. Energy & Fuels, 2007, 21, 3233-3239.	5.1	30
148	An experimental and modeling study of 2-methyl-1-butanol oxidation in a jet-stirred reactor. Combustion and Flame, 2014, 161, 3003-3013.	5.2	29
149	Experimental and kinetic modeling study of trans-2-butene oxidation in a jet-stirred reactor and a combustion bomb. Proceedings of the Combustion Institute, 2015, 35, 317-324.	3.9	29
150	Kinetics of Jet Fuel Combustion Over Extended Conditions: Experimental and Modeling. Journal of Engineering for Gas Turbines and Power, 2007, 129, 394-403.	1.1	28
151	Experimental and Kinetic Modeling Study of 3-Methylheptane in a Jet-Stirred Reactor. Energy & Fuels, 2012, 26, 4680-4689.	5.1	28
152	Autoignition of surrogate biodiesel fuel (B30) at high pressures: Experimental and modeling kinetic study. Combustion and Flame, 2012, 159, 996-1008.	5.2	28
153	On the Oxidation of Ammonia and Mutual Sensitization of the Oxidation of No and Ammonia: Experimental and Kinetic Modeling. Combustion Science and Technology, 2022, 194, 117-129.	2.3	28
154	An experimental and kinetic modeling study on the oxidation of 1,3-dioxolane. Proceedings of the Combustion Institute, 2021, 38, 543-553.	3.9	28
155	The temperature dependence of the rate constant for the hydroperoxy + methylperoxy gas-phase reaction. The Journal of Physical Chemistry, 1988, 92, 3833-3836.	2.9	27
156	Propyne Oxidation: A Kinetic Modeling Study. Combustion Science and Technology, 1990, 71, 111-128.	2.3	27
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