FrÃ©dÃ©rique Battin-Leclerc

List of Publications by Year
in descending order

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186	11,285	23879 60	40945 97
papers	citations	h-index	g-index

189	189	189	4075
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Possible use as biofuels of monoaromatic oxygenates produced by lignin catalytic conversion: A review. Catalysis Today, 2023, 408, 150-167.	2.2	4
2	Variable pressure JSR study of low temperature oxidation chemistry of n-heptane by synchrotron photoionization mass spectrometry. Combustion and Flame, 2022, 240, 111946.	2.8	7
3	Virtual Special Issue of Recent Advances in Fundamentals of Biomass and Biofuel Combustion. Energy & Fuels, 2022, 36, 1-5.	2.5	2
4	Accounting for molecular flexibility in photoionization: case of tert-butyl hydroperoxide. Physical Chemistry Chemical Physics, 2022, 24, 10826-10837.	1.3	3
5	Exploring low temperature oxidation of iso-octane under atmospheric pressure. Combustion and Flame, 2022, 243, 112019.	2.8	9
6	Chemistry deriving from OOQOOH radicals in alkane low-temperature oxidation: A first combined theoretical and electron-ion coincidence mass spectrometry study. Proceedings of the Combustion Institute, 2021, 38, 309-319.	2.4	16
7	Ammoniaâ€“methane interaction in jet-stirred and flow reactors: An experimental and kinetic modeling study. Proceedings of the Combustion Institute, 2021, 38, 345-353.	2.4	47
8	Pyrolysis and Combustion Chemistry of Pyrrole, a Reference Component for Bio-oil Surrogates: Jet-Stirred Reactor Experiments and Kinetic Modeling. Energy & Fuels, 2021, 35, 7265-7284.	2.5	26
9	Emissions from a Domestic Wood Heating Appliance: Experimental Measurements and Numerical Study Using an Equivalent Reactor Network (ERN) Approach Coupled with a Detailed Chemical Mechanism. Energy & Fuels, 2021, 35, 18680-18698.	2.5	5
10	Jet-Stirred Reactor Study of Low-Temperature Neopentane Oxidation: A Combined Theoretical, Chromatographic, Mass Spectrometric, and PEPICO Analysis. Energy & Fuels, 2021, 35, 19689-19704.	2.5	12
11	Experimental and modeling study of benzaldehyde oxidation. Combustion and Flame, 2020, 211, 124-132.	2.8	24
12	The role of chemistry in the oscillating combustion of hydrocarbons: An experimental and theoretical study. Chemical Engineering Journal, 2020, 385, 123401.	6.6	21
13	Insights into nitromethane combustion from detailed kinetic modeling â€“ Pyrolysis experiments in jet-stirred and flow reactors. Fuel, 2020, 261, 116349.	3.4	32
14	Isomer-sensitive characterization of low temperature oxidation reaction products by coupling a jet-stirred reactor to an electron/ion coincidence spectrometer: case of n-pentane. Physical Chemistry Chemical Physics, 2020, 22, 1222-1241.	1.3	28
15	Detailed experimental and kinetic modeling study of 3â€carene pyrolysis. International Journal of Chemical Kinetics, 2020, 52, 785-795.	1.0	4
16	Combustion of n-C₃â€“C₆ Linear Alcohols: An Experimental and Kinetic Modeling Study. Part I: Reaction Classes, Rate Rules, Model Lumping, and Validation. Energy & Fuels, 2020, 34, 14688-14707.	2.5	19
17	An experimental and modeling study of the oxidation of nâ€•heptane, ethylbenzene, and nâ€•butylbenzene in a jetâ€stirred reactor at pressures up to 10Âbar. International Journal of Chemical Kinetics, 2020, 52, 1006-1021.	1.0	7
18	Combustion of n-C₃â€“C₆ Linear Alcohols: An Experimental and Kinetic Modeling Study. Part II: Speciation Measurements in a Jet-Stirred Reactor, Ignition Delay Time Measurements in a Rapid Compression Machine, Model Validation, and Kinetic Analysis. Energy & Fuels, 2020, 34, 14708-14725.	2.5	20

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19	Experimental and kinetic modeling study of the pyrolysis and oxidation of diethylamine. Fuel, 2020, 275, 117744.	3.4	11
20	An experimental, theoretical and kinetic-modeling study of the gas-phase oxidation of ammonia. Reaction Chemistry and Engineering, 2020, 5, 696-711.	1.9	275
21	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.	1.4	11
22	The identification and quantification of ketohydroperoxides and derived species produced during fuel low-temperature oxidation. AIP Conference Proceedings, 2020, , .	0.3	0
23	Methylcyclohexane pyrolysis and oxidation in a jet-stirred reactor. Proceedings of the Combustion Institute, 2019, 37, 409-417.	2.4	40
24	A study of chlorobenzene pyrolysis. Proceedings of the Combustion Institute, 2019, 37, 399-407.	2.4	14
25	The thermal decomposition of furfural: molecular chemistry unraveled. Proceedings of the Combustion Institute, 2019, 37, 445-452.	2.4	16
26	Low-temperature gas-phase oxidation of diethyl ether: Fuel reactivity and fuel-specific products. Proceedings of the Combustion Institute, 2019, 37, 511-519.	2.4	52
27	An experimental and kinetic modelling study of n-C4C6 aldehydes oxidation in a jet-stirred reactor. Proceedings of the Combustion Institute, 2019, 37, 389-397.	2.4	21
28	The sensitizing effects of NO2 and NO on methane low temperature oxidation in a jet stirred reactor. Proceedings of the Combustion Institute, 2019, 37, 667-675.	2.4	124
29	Probing the low-temperature chemistry of di-n-butyl ether: Detection of previously unobserved intermediates. Combustion and Flame, 2019, 210, 9-24.	2.8	26
30	Development of a detailed kinetic model for the combustion of biomass. Fuel, 2019, 242, 756-774.	3.4	44
31	First Study of the Pyrolysis of a Halogenated Ester: Methyl Chloroacetate. Industrial & Engineering Chemistry Research, 2019, 58, 9331-9338.	1.8	4
32	A first evaluation of butanoic and pentanoic acid oxidation kinetics. Chemical Engineering Journal, 2019, 373, 973-984.	6.6	27
33	Effects of Bath Gas and NO_x Addition on n-Pentane Low-Temperature Oxidation in a Jet-Stirred Reactor. Energy & Fuels, 2019, 33, 5655-5663.	2.5	24
34	Exploring hydroperoxides in combustion: History, recent advances and perspectives. Progress in Energy and Combustion Science, 2019, 73, 132-181.	15.8	119
35	First detection of a key intermediate in the oxidation of fuelâ€¯+â€¯NO systems: HONO. Chemical Physics Letters, 2019, 719, 22-26.	1.2	21
36	A model of tetrahydrofuran low-temperature oxidation based on theoretically calculated rate constants. Combustion and Flame, 2018, 191, 252-269.	2.8	36

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37	Experimental and modeling study of the pyrolysis and combustion of dimethoxymethane. Combustion and Flame, 2018, 190, 270-283.	2.8	78
38	The importance of endothermic pyrolysis reactions in the understanding of diesel spray combustion. Fuel, 2018, 224, 302-310.	3.4	13
39	A study of thermal decomposition of bromoethane. Journal of Analytical and Applied Pyrolysis, 2018, 136, 199-207.	2.6	7
40	Oscillatory Behavior in Methane Combustion: Influence of the Operating Parameters. Energy & Fuels, 2018, 32, 10088-10099.	2.5	22
41	The oxidation of the novel lignocellulosic biofuel Î³-valerolactone in a low pressure flame. Proceedings of the Combustion Institute, 2017, 36, 577-585.	2.4	8
42	A study of the low-temperature oxidation of a long chain aldehyde: n-hexanal. Proceedings of the Combustion Institute, 2017, 36, 365-372.	2.4	11
43	Measuring hydroperoxide chain-branching agents during n-pentane low-temperature oxidation. Proceedings of the Combustion Institute, 2017, 36, 333-342.	2.4	66
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.	2.4	92
45	Hydroperoxide Measurements During Low-Temperature Gas-Phase Oxidation of n-Heptane and n-Decane. Journal of Physical Chemistry A, 2017, 121, 1861-1876.	1.1	31
46	Comparative experimental and modeling study of the low- to moderate-temperature oxidation chemistry of 2,5-dimethylfuran, 2-methylfuran, and furan. Combustion and Flame, 2017, 181, 251-269.	2.8	61
47	Revisiting 1-hexene low-temperature oxidation. Combustion and Flame, 2017, 181, 283-299.	2.8	29
48	Experimental and modeling study of the pyrolysis and combustion of 2-methyl-tetrahydrofuran. Combustion and Flame, 2017, 176, 409-428.	2.8	28
49	Experimental and kinetic modeling study of the pyrolysis and oxidation of 1,5-hexadiene: The reactivity of allylic radicals and their role in the formation of aromatics. Fuel, 2017, 208, 779-790.	3.4	17
50	Gasâ€Phase Oxidation of Methylâ€10â€undecenoate in a Jetâ€Stirred Reactor. International Journal of Chemical Kinetics, 2017, 49, 711-728.	1.0	3
51	Experimental and modeling study of 1-octene jet-stirred reactor oxidation. Fuel, 2017, 207, 763-775.	3.4	10
52	IMPROOF: Integrated Model Guided Process Optimization of Steam Cracking Furnaces. Smart Innovation, Systems and Technologies, 2017, , 589-600.	0.5	2
53	Diethyl ether pyrolysis study in a jet-stirred reactor. Journal of Analytical and Applied Pyrolysis, 2016, 121, 173-176.	2.6	25
54	Understanding the reactivity of unsaturated alcohols: Experimental and kinetic modeling study of the pyrolysis and oxidation of 3-methyl-2-butenol and 3-methyl-3-butenol. Combustion and Flame, 2016, 171, 237-251.	2.8	24

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55	An updated experimental and kinetic modeling study of n-heptane oxidation. Combustion and Flame, 2016, 172, 116-135.	2.8	307
56	Study of the Formation of the First Aromatic Rings in the Pyrolysis of Cyclopentene. Journal of Physical Chemistry A, 2016, 120, 668-682.	1.1	19
57	A comprehensive experimental and modeling study of isobutene oxidation. Combustion and Flame, 2016, 167, 353-379.	2.8	282
58	Experimental and modeling investigation of the effect of the unsaturation degree on the gas-phase oxidation of fatty acid methyl esters found in biodiesel fuels. Combustion and Flame, 2016, 164, 346-362.	2.8	42
59	Experimental and modeling study of ultra-rich oxidation of n-heptane. Fuel, 2015, 144, 358-368.	3.4	28
60	Low-Temperature Combustion Mechanisms. , 2015, , .		0
61	Experimental and modeling study of burning velocities for alkyl aromatic components relevant to diesel fuels. Proceedings of the Combustion Institute, 2015, 35, 341-348.	2.4	43
62	An experimental and modeling study of propene oxidation. Part 2: Ignition delay time and flame speed measurements. Combustion and Flame, 2015, 162, 296-314.	2.8	270
63	Determining predictive uncertainties and global sensitivities for large parameter systems: A case study for n -butane oxidation. Proceedings of the Combustion Institute, 2015, 35, 607-616.	2.4	31
64	The oxidation of large alkylbenzenes: An experimental and modeling study. Proceedings of the Combustion Institute, 2015, 35, 349-356.	2.4	34
65	Measurements of Laminar Burning Velocities above Atmospheric Pressure Using the Heat Flux Methodâ€"Application to the Case of n-Pentane. Energy & Fuels, 2015, 29, 398-404.	2.5	49
66	Experimental Study of Tetrahydrofuran Oxidation and Ignition in Low-Temperature Conditions. Energy & Fuels, 2015, 29, 6118-6125.	2.5	33
67	Experimental and Kinetic Modeling Study of 2-Methyl-2-Butene: Allylic Hydrocarbon Kinetics. Journal of Physical Chemistry A, 2015, 119, 7462-7480.	1.1	62
68	An experimental and modeling study of the combustion of tetrahydrofuran. Combustion and Flame, 2015, 162, 1899-1918.	2.8	72
69	Experimental and Modeling Investigation of the Low-Temperature Oxidation of Dimethyl Ether. Journal of Physical Chemistry A, 2015, 119, 7905-7923.	1.1	85
70	Comparison study of the gas-phase oxidation of alkylbenzenes and alkylcyclohexanes. Chemical Engineering Science, 2015, 131, 49-62.	1.9	28
71	Pyrolysis and combustion chemistry of tetrahydropyran: Experimental and modeling study. Combustion and Flame, 2015, 162, 4283-4303.	2.8	19
72	Unimolecular decomposition of tetrahydrofuran: Carbene vs. diradical pathways. Proceedings of the Combustion Institute, 2015, 35, 533-541.	2.4	30

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73	Influence of substituted furans on the formation of Polycyclic Aromatic Hydrocarbons in flames. Proceedings of the Combustion Institute, 2015, 35, 1735-1743.	2.4	59
74	Laminar burning velocity of gasolines with addition of ethanol. Fuel, 2014, 115, 162-169.	3.4	248
75	Progress in Understanding Lowâ€Temperature Organic Compound Oxidation Using a Jetâ€Stirred Reactor. International Journal of Chemical Kinetics, 2014, 46, 619-639.	1.0	80
76	An experimental and modeling study of propene oxidation. Part 1: Speciation measurements in jet-stirred and flow reactors. Combustion and Flame, 2014, 161, 2765-2784.	2.8	251
77	Products from the Oxidation of Linear Isomers of Hexene. Journal of Physical Chemistry A, 2014, 118, 673-683.	1.1	50
78	Experimental Investigation of the Low Temperature Oxidation of the Five Isomers of Hexane. Journal of Physical Chemistry A, 2014, 118, 5573-5594.	1.1	44
79	Combustion chemistry and flame structure of furan group biofuels using molecular-beam mass spectrometry and gas chromatography â€“ Part III: 2,5-Dimethylfuran. Combustion and Flame, 2014, 161, 780-797.	2.8	127
80	Combustion chemistry and flame structure of furan group biofuels using molecular-beam mass spectrometry and gas chromatography â€“ Part II: 2-Methylfuran. Combustion and Flame, 2014, 161, 766-779.	2.8	110
81	Combustion chemistry and flame structure of furan group biofuels using molecular-beam mass spectrometry and gas chromatography â€“ Part I: Furan. Combustion and Flame, 2014, 161, 748-765.	2.8	117
82	A high temperature and atmospheric pressure experimental and detailed chemical kinetic modelling study of 2-methyl furan oxidation. Proceedings of the Combustion Institute, 2013, 34, 225-232.	2.4	121
83	Quantification of OH and HO ₂ radicals during the low-temperature oxidation of hydrocarbons by Fluorescence Assay by Gas Expansion technique. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20014-20017.	3.3	65
84	An experimental and modeling study of the low- and high-temperature oxidation of cyclohexane. Combustion and Flame, 2013, 160, 2319-2332.	2.8	71
85	Experimental and modeling study of the oxidation of n-butane in a jet stirred reactor using cw-CRDS measurements. Physical Chemistry Chemical Physics, 2013, 15, 19686.	1.3	42
86	Shock Tube and Chemical Kinetic Modeling Study of the Oxidation of 2,5-Dimethylfuran. Journal of Physical Chemistry A, 2013, 117, 1371-1392.	1.1	108
87	A comprehensive experimental and detailed chemical kinetic modelling study of 2,5-dimethylfuran pyrolysis and oxidation. Combustion and Flame, 2013, 160, 2291-2318.	2.8	143
88	New experimental evidence and modeling study of the ethylbenzene oxidation. Proceedings of the Combustion Institute, 2013, 34, 325-333.	2.4	48
89	Experimental and Modeling Study of Premixed Laminar Flames of Ethanol and Methane. Energy & Fuels, 2013, 27, 2226-2245.	2.5	44
90	Experimental study of the structure of laminar premixed flames of ethanol/methane/oxygen/argon. Combustion, Explosion and Shock Waves, 2013, 49, 11-18.	0.3	11

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91	Low temperature oxidation of benzene and toluene in mixture with n-decane. Proceedings of the Combustion Institute, 2013, 34, 297-305.	2.4	42
92	Modeling Combustion with Detailed Kinetic Mechanisms. Green Energy and Technology, 2013, , 17-57.	0.4	4
93	Automatic Generation of Detailed Mechanisms. Green Energy and Technology, 2013, , 59-92.	0.4	18
94	Specificities Related to Detailed Kinetic Models for the Combustion of Oxygenated Fuels Components. Green Energy and Technology, 2013, , 93-109.	0.4	5
95	Quantification of Hydrogen Peroxide during the Low-Temperature Oxidation of Alkanes. Journal of the American Chemical Society, 2012, 134, 11944-11947.	6.6	46
96	Improvement of the Modeling of the Low-Temperature Oxidation of n-Butane: Study of the Primary Reactions. Journal of Physical Chemistry A, 2012, 116, 6142-6158.	1.1	72
97	Study of the Low Temperature Oxidation of Propane. Journal of Physical Chemistry A, 2012, 116, 12214-12228.	1.1	57
98	Progress in detailed kinetic modeling of the combustion of oxygenated components of biofuels. Energy, 2012, 43, 4-18.	4.5	149
99	Measurements of flat-flame velocities of diethyl ether in air. Energy, 2012, 43, 140-145.	4.5	47
100	JTHERGAS: Thermodynamic estimation from 2D graphical representations of molecules. Energy, 2012, 43, 161-171.	4.5	12
101	Experimental and modeling investigation of the low-temperature oxidation of n-heptane. Combustion and Flame, 2012, 159, 3455-3471.	2.8	165
102	Detailed Product Analysis during Low- and Intermediate-Temperature Oxidation of Ethylcyclohexane. Journal of Physical Chemistry A, 2012, 116, 5100-5111.	1.1	44
103	Experimental and modeling study of the oxidation of n-butylbenzene. Combustion and Flame, 2012, 159, 1399-1416.	2.8	59
104	Detection of some stable species during the oxidation of methane by coupling a jet-stirred reactor (JSR) to cw-CRDS. Chemical Physics Letters, 2012, 534, 1-7.	1.2	26
105	Towards cleaner combustion engines through groundbreaking detailed chemical kinetic models. Chemical Society Reviews, 2011, 40, 4762.	18.7	111
106	Detailed product analysis during the low temperature oxidation of n-butane. Physical Chemistry Chemical Physics, 2011, 13, 296-308.	1.3	108
107	Measurements of Laminar Flame Velocity for Components of Natural Gas. Energy & Fuels, 2011, 25, 3875-3884.	2.5	181
108	Laminar Flame Velocity of Components of Natural Gas. , 2011, , .		2

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109	Modeling study of the low-temperature oxidation of large methyl esters from C11 to C19. Proceedings of the Combustion Institute, 2011, 33, 391-398.	2.4	63
110	Oxidation of small unsaturated methyl and ethyl esters. International Journal of Chemical Kinetics, 2011, 43, 204-218.	1.0	32
111	Experimental and modeling study of the thermal decomposition of methyl decanoate. Combustion and Flame, 2011, 158, 1288-1300.	2.8	50
112	An experimental and kinetic investigation of premixed furan/oxygen/argon flames. Combustion and Flame, 2011, 158, 756-773.	2.8	113
113	Mass spectra of cyclic ethers formed in the low-temperature oxidation of a series of n-alkanes. Fuel, 2011, 90, 528-535.	3.4	20
114	New experimental evidences about the formation and consumption of ketohydroperoxides. Proceedings of the Combustion Institute, 2011, 33, 325-331.	2.4	64
115	A detailed kinetic modeling study of toluene oxidation in a premixed laminar flame. Proceedings of the Combustion Institute, 2011, 33, 233-241.	2.4	79
116	Thermal and Kinetic Impact of CO, CO₂, and H₂O on the Postoxidation of IC-Engine Exhaust Gases. Combustion Science and Technology, 2010, 182, 39-59.	1.2	23
117	Experimental study of the oxidation of methyl oleate in a jet-stirred reactor. Combustion and Flame, 2010, 157, 1220-1229.	2.8	81
118	Modeling of the oxidation of methyl estersâ€"Validation for methyl hexanoate, methyl heptanoate, and methyl decanoate in a jet-stirred reactor. Combustion and Flame, 2010, 157, 2035-2050.	2.8	124
119	Experimental study of the structure of a lean premixed indane/CH4/O2/Ar flame. Combustion, Explosion and Shock Waves, 2010, 46, 132-139.	0.3	7
120	Experimental Confirmation of the Lowâ€Temperature Oxidation Scheme of Alkanes. Angewandte Chemie - International Edition, 2010, 49, 3169-3172.	7.2	180
121	Oxidation of methyl and ethyl butanoates. International Journal of Chemical Kinetics, 2010, 42, 226-252.	1.0	78
122	Lean methane premixed laminar flames doped by components of diesel fuel II: n-Propylcyclohexane. Combustion and Flame, 2010, 157, 75-90.	2.8	28
123	A lean methane premixed laminar flame doped with components of diesel fuel part III: Indane and comparison between n-butylbenzene, n-propylcyclohexane and indane. Combustion and Flame, 2010, 157, 1236-1260.	2.8	30
124	An experimental and kinetic modeling study of the autoignition of Î±-methylnaphthalene/air and Î±-methylnaphthalene/n-decane/air mixtures at elevated pressures. Combustion and Flame, 2010, 157, 1976-1988.	2.8	67
125	Influence of EGR compounds on the oxidation of an HCCI-diesel surrogate. Proceedings of the Combustion Institute, 2009, 32, 2851-2859.	2.4	31
126	A lean methane premixed laminar flame doped with components of diesel fuelI. n-Butylbenzene. Combustion and Flame, 2009, 156, 954-974.	2.8	37

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127	Experimental study of the oxidation of large surrogates for diesel and biodiesel fuels. Combustion and Flame, 2009, 156, 2129-2144.	2.8	112
128	A comparative study of the formation of aromatics in rich methane flames doped by unsaturated compounds. Fuel, 2009, 88, 1388-1393.	3.4	22
129	Influence of the position of the double bond on the autoignition of linear alkenes at low temperature. Proceedings of the Combustion Institute, 2009, 32, 387-394.	2.4	66
130	Modeling of autoignition and NO sensitization for the oxidation of IC engine surrogate fuels. Combustion and Flame, 2009, 156, 505-521.	2.8	61
131	Rich methane premixed laminar flames doped by light unsaturated hydrocarbons. Combustion and Flame, 2008, 152, 245-261.	2.8	21
132	Experimental and modeling study of the autoignition of cyclopentene. International Journal of Chemical Kinetics, 2008, 40, 25-33.	1.0	8
133	Detailed chemical kinetic models for the low-temperature combustion of hydrocarbons with application to gasoline and diesel fuel surrogates. Progress in Energy and Combustion Science, 2008, 34, 440-498.	15.8	547
134	A Tentative Modeling Study of the Effect of Wall Reactions on Oxidation Phenomena. Energy & Fuels, 2008, 22, 3736-3743.	2.5	22
135	An Experimental and Kinetic Modeling Study of the Oxidation of the Four Isomers of Butanol. Journal of Physical Chemistry A, 2008, 112, 10843-10855.	1.1	257
136	Thermal Decomposition of Norbornane (bicyclo[2.2.1]heptane) Dissolved in Benzene:Â Experimental Study and Mechanism Investigation. Energy & Fuels, 2007, 21, 1406-1414.	2.5	7
137	To Better Understand the Formation of Short-Chain Acids in Combustion Systems. Combustion Science and Technology, 2007, 180, 343-370.	1.2	33
138	Rich premixed laminar methane flames doped by light unsaturated hydrocarbons. Combustion and Flame, 2007, 151, 245-261.	2.8	30
139	The autoignition of cyclopentane and cyclohexane in a shock tube. Proceedings of the Combustion Institute, 2007, 31, 277-284.	2.4	108
140	Thermal decomposition of n-dodecane: Experiments and kinetic modeling. Journal of Analytical and Applied Pyrolysis, 2007, 78, 419-429.	2.6	138
141	Primary Mechanism of the Thermal Decomposition of Tricyclodecane. Journal of Physical Chemistry A, 2006, 110, 11298-11314.	1.1	82
142	Modeling of the Gas-Phase Oxidation of Cyclohexane. Energy & Fuels, 2006, 20, 1450-1459.	2.5	80
143	Experimental and modeling study of the autoignition of 1-hexene/isooctane mixtures at low temperatures. Combustion and Flame, 2006, 145, 272-281.	2.8	26
144	Use of detailed kinetic mechanisms for the prediction of autoignitions. Journal of Loss Prevention in the Process Industries, 2006, 19, 227-232.	1.7	11

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145	Experimental study of the structure of a rich premixed 1,3-butadiene/CH4/O2/Ar flame. Combustion, Explosion and Shock Waves, 2006, 42, 702-707.	0.3	1
146	Experimental and modeling study of the oxidation of xylenes. International Journal of Chemical Kinetics, 2006, 38, 284-302.	1.0	88
147	Progress toward a unified detailed kinetic model for the autoignition of alkanes from C4 to C10 between 600 and 1200 K. Combustion and Flame, 2005, 142, 170-186.	2.8	272
148	Playing with Fire. Chemical Engineering Research and Design, 2005, 83, 317-323.	2.7	5
149	Experimental and modeling study of the oxidation of toluene. International Journal of Chemical Kinetics, 2005, 37, 25-49.	1.0	176
150	Experimental and modeling study of the oxidation of 1-pentene at high temperature. International Journal of Chemical Kinetics, 2005, 37, 451-463.	1.0	62
151	Modeling of the oxidation of large alkenes at low temperature. Proceedings of the Combustion Institute, 2005, 30, 1073-1081.	2.4	97
152	Experimental and modeling study of 1-hexene oxidation behind reflected shock waves. Proceedings of the Combustion Institute, 2005, 30, 1137-1145.	2.4	57
153	Experimental and modelling investigation of the thermal decomposition of n-dodecane. Journal of Analytical and Applied Pyrolysis, 2004, 71, 865-881.	2.6	118
154	Experimental and modeling study of the oxidation of cyclohexene. International Journal of Chemical Kinetics, 2003, 35, 273-285.	1.0	59
155	Experimental and modeling study of the oxidation of benzene. International Journal of Chemical Kinetics, 2003, 35, 503-524.	1.0	70
156	Modeling the Oxidation of Mixtures of Primary Reference Automobile Fuels. Energy & Fuels, 2002, 16, 1186-1195.	2.5	61
157	Development of kinetic models for the formation and degradation of unsaturated hydrocarbons at high temperature. Physical Chemistry Chemical Physics, 2002, 4, 2072-2078.	1.3	29
158	Experimental and modeling study of the oxidation of 1-butyne and 2-butyne. International Journal of Chemical Kinetics, 2002, 34, 172-183.	1.0	39
159	Oxidation of small alkenes at high temperature. International Journal of Chemical Kinetics, 2002, 34, 666-677.	1.0	70
160	The gas-phase oxidation ofn-hexadecane. International Journal of Chemical Kinetics, 2001, 33, 574-586.	1.0	50
161	Comprehensive mechanism for the gas-phase oxidation of propene. Combustion and Flame, 2001, 126, 1780-1802.	2.8	54
162	Automatic reduction of detailed mechanisms of combustion of alkanes by chemical lumping. International Journal of Chemical Kinetics, 2000, 32, 36-51.	1.0	41

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163	Computer tools for modelling the chemical phenomena related to combustion. Chemical Engineering Science, 2000, 55, 2883-2893.	1.9	64
164	Construction and simplification of a model for the oxidation of alkanes. Combustion and Flame, 2000, 122, 451-462.	2.8	77
165	Experimental and modeling study of the gas-phase oxidation of methyl and ethyl tertiary butyl ethers. Combustion and Flame, 2000, 121, 345-355.	2.8	59
166	Modeling of the gas-phase oxidation of n-decane from 550 to 1600 K. Proceedings of the Combustion Institute, 2000, 28, 1597-1605.	2.4	58
167	Computer based generation of reaction mechanisms for gas-phase oxidation. Computers & Chemistry, 2000, 24, 541-560.	1.2	130
168	Thermal decomposition of chloropicrin, diphosgene and phosgene between 100 and 530Â°C. Journal of Analytical and Applied Pyrolysis, 2000, 53, 95-105.	2.6	19
169	Thermal decomposition of bis (2-chloroethyl) sulphide and bis (2-chloroethyl) ether between 300 and 500Â°C. Journal of Analytical and Applied Pyrolysis, 2000, 55, 203-216.	2.6	10
170	Experimental and modeling of oxidation of acetylene, propyne, allene and 1,3-butadiene. International Journal of Chemical Kinetics, 1999, 31, 361-379.	1.0	104
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