William J Pitz

List of Publications by Year
in descending order

176	18,497	22153	15266
papers	citations	59 h-index	126 g-index

179	179	179	5026
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An experimental and kinetic modeling study of NOx sensitization on methane autoignition and oxidation. Combustion and Flame, 2022, 238, 111746.	5.2	25
2	Chemical kinetic basis of synergistic blending for research octane number. Fuel, 2022, 307, 121865.	6.4	13
3	Shock tube investigation of high-temperature, extremely-rich oxidation of several co-optima biofuels for spark-ignition engines. Combustion and Flame, 2022, 236, 111794.	5.2	8
4	Effect of nitric oxide and exhaust gases on gasoline surrogate autoignition: iso-octane experiments and modeling. Combustion and Flame, 2022, 236, 111807.	5.2	29
5	A new detailed kinetic model for surrogate fuels: C3MechV3.3. Applications in Energy and Combustion Science, 2022, 9, 100043.	1.5	15
6	Formation of PAHs, phenol, benzofuran, and dibenzofuran in a flow reactor from the oxidation of ethylene, toluene, and n-decane. Combustion and Flame, 2022, 241, 112136.	5.2	10
7	An experimental and kinetic modeling study of the pyrolysis of isoprene, a significant biogenic hydrocarbon in naturally occurring vegetation fires. Combustion and Flame, 2022, 242, 112206.	5.2	4
8	A comprehensive experimental and improved kinetic modeling study on the pyrolysis and oxidation of propyne. Proceedings of the Combustion Institute, 2021, 38, 479-488.	3.9	41
9	Experimental and kinetic modeling study of tetralin: A naphtheno-aromatic fuel for gasoline, jet and diesel surrogates. Proceedings of the Combustion Institute, 2021, 38, 641-649.	3.9	9
10	A single pulse shock tube study of pentene isomer pyrolysis. Proceedings of the Combustion Institute, 2021, 38, 881-889.	3.9	35
11	Probing the antiknock effect of anisole through an ignition, speciation and modeling study of its blends with isooctane. Proceedings of the Combustion Institute, 2021, 38, 739-748.	3.9	9
12	A comparative reactivity study of 1-alkene fuels from ethylene to 1-heptene. Proceedings of the Combustion Institute, 2021, 38, 611-619.	3.9	32
13	A comprehensive experimental and kinetic modeling study of 1- and 2-pentene. Combustion and Flame, 2021, 223, 166-180.	5.2	47
14	A detailed chemical kinetic modeling and experimental investigation of the lowâ€•and highâ€‘temperature chemistry of nâ€‘butylcyclohexane. International Journal of Chemical Kinetics, 2021, 53, 465-475.	1.6	18
15	Effects of isoalcohol blending with gasoline on autoignition behavior in a rapid compression machine: Isopropanol and isobutanol. Proceedings of the Combustion Institute, 2021, 38, 5655-5664.	3.9	22
16	An experimental and kinetic modeling study of cyclopentane and dimethyl ether blends. Combustion and Flame, 2021, 225, 255-271.	5.2	19
17	An improved detailed chemical kinetic model for C3-C4 linear and iso-alcohols and their blends with gasoline at engine-relevant conditions. Proceedings of the Combustion Institute, 2021, 38, 415-423.	3.9	21
18	Experimental and modeling study of C2â€“C4 alcohol autoignition at intermediate temperature conditions. Proceedings of the Combustion Institute, 2021, 38, 709-717.	3.9	23

#	Article	IF	Citations
19	Implementation of multi-component diesel fuel surrogates and chemical kinetic mechanisms for engine combustion simulations. Transportation Engineering, 2021, 3, 100042.	4.2	5
20	Autoignition study of iso-cetane/tetralin blends at low temperature. Combustion and Flame, 2021, 228, 415-429.	5.2	4
21	Autoignition and preliminary heat release of gasoline surrogates and their blends with ethanol at engine-relevant conditions: Experiments and comprehensive kinetic modeling. Combustion and Flame, 2021, 228, 57-77.	5.2	46
22	Experimental and Kinetic Modeling Study of 3-Methyl-2-butenol (Prenol) Oxidation. Energy & Fuels, 2021, 35, 13999-14009.	5.1	9
23	Measurements of Intermediate Species in Fuel-Rich Oxidation of Ethylene, Toluene, and n-Decane. Energy & Fuels, 2021, 35, 14924-14940.	5.1	11
24	A comprehensive experimental and kinetic modeling study of 1-hexene. Combustion and Flame, 2021, 232, 111516.	5.2	13
25	New insights into fuel blending effects: Intermolecular chemical kinetic interactions affecting autoignition times and intermediate-temperature heat release. Combustion and Flame, 2021, 233, 111559.	5.2	19
26	Probing intermediate temperature heat release in autoignition of C3-C4 iso-alcohol/gasoline blends. Combustion and Flame, 2021, 233, 111602.	5.2	7
27	High-pressure shock tube study of ethanol oxidation: Ignition delay time and CO time-history measurements. Combustion and Flame, 2020, 212, 486-499.	5.2	30
28	The influence of iso-butene kinetics on the reactivity of di-isobutylene and iso-octane. Combustion and Flame, 2020, 222, 186-195.	5.2	31
29	Experimental and Kinetic Modeling Study of Laminar Burning Velocities of Cyclopentanone and Its Binary Mixtures with Ethanol and n-Propanol. Energy & Fuels, 2020, 34, 11408-11416.	5.1	4
30	Autoignition of CRC diesel surrogates at low temperature combustion conditions: Rapid compression machine experiments and modeling. Combustion and Flame, 2020, 219, 178-197.	5.2	11
31	A pyrolysis study of allylic hydrocarbon fuels. International Journal of Chemical Kinetics, 2020, 52, 964-978.	1.6	26
32	Sooting tendencies of 20 bio-derived fuels for advanced spark-ignition engines. Fuel, 2020, 276, 118059.	6.4	19
33	PAH formation from jet stirred reactor pyrolysis of gasoline surrogates. Combustion and Flame, 2020, 219, 312-326.	5.2	39
34	A hierarchical single-pulse shock tube pyrolysis study of C2â€“C6 1-alkenes. Combustion and Flame, 2020, 219, 456-466.	5.2	64
35	Autoignition behavior of gasoline/ethanol blends at engine-relevant conditions. Combustion and Flame, 2020, 216, 369-384.	5.2	41
36	Fuel molecular structure effect on autoignition of highly branched iso-alkanes at low-to-intermediate temperatures: Iso-octane versus iso-dodecane. Combustion and Flame, 2020, 214, 152-166.	5.2	26

#	Article	IF	Citations
37	Small ester combustion chemistry: Computational kinetics and experimental study of methyl acetate and ethyl acetate. Proceedings of the Combustion Institute, 2019, 37, 419-428.	3.9	45
38	An experimental, theoretical, and modeling study of the ignition behavior of cyclopentanone. Proceedings of the Combustion Institute, 2019, 37, 657-665.	3.9	18
39	Co-optima fuels combustion: A comprehensive experimental investigation of prenol isomers. Fuel, 2019, 254, 115630.	6.4	30
40	An experimental and kinetic modeling study of the oxidation of hexane isomers: Developing consistent reaction rate rules for alkanes. Combustion and Flame, 2019, 206, 123-137.	5.2	53
41	Testing the validity of a mechanism describing the oxidation of binary n-heptane/toluene mixtures at engine operating conditions. Combustion and Flame, 2019, 199, 241-248.	5.2	13
42	Low temperature autoignition of 5-membered ring naphthenes: Effects of substitution. Combustion and Flame, 2019, 200, 387-404.	5.2	30
43	Kinetic modeling study of surrogate components for gasoline, jet and diesel fuels: C7-C11 methylated aromatics. Proceedings of the Combustion Institute, 2019, 37, 521-529.	3.9	60
44	Auto-ignition study of FACE gasoline and its surrogates at advanced IC engine conditions. Proceedings of the Combustion Institute, 2019, 37, 4699-4707.	3.9	20
45	Exploring gasoline oxidation chemistry in jet stirred reactors. Fuel, 2019, 236, 1282-1292.	6.4	38
46	Multi-fuel surrogate chemical kinetic mechanisms for real world applications. Physical Chemistry Chemical Physics, 2018, 20, 10588-10606.	2.8	40
47	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
48	Autoignition of trans-decalin, a diesel surrogate compound: Rapid compression machine experiments and chemical kinetic modeling. Combustion and Flame, 2018, 194, 152-163.	5.2	23
49	Quantifying Uncertainty in Predictions of Kinetically Modulated Combustion: Application to HCCI Using a Detailed Transportation Fuel Model. , 2018, , .		2
50	Structure and behavior of water-laden CH4/air counterflow diffusion flames. Combustion and Flame, 2018, 196, 439-451.	5.2	28
51	A comprehensive iso-octane combustion model with improved thermochemistry and chemical kinetics. Combustion and Flame, 2017, 178, 111-134.	5.2	164
52	The role of correlations in uncertainty quantification of transportation relevant fuel models. Combustion and Flame, 2017, 180, 239-249.	5.2	33
53	Cyclopentane combustion. Part II. Ignition delay measurements and mechanism validation. Combustion and Flame, 2017, 183, 372-385.	5.2	47
54	Cyclopentane combustion chemistry. Part I: Mechanism development and computational kinetics. Combustion and Flame, 2017, 183, 358-371.	5.2	51

#	Article	IF	Citations
55	Probing the antagonistic effect of toluene as a component in surrogate fuel models at low temperatures and high pressures. A case study of toluene/dimethyl ether mixtures. Proceedings of the Combustion Institute, 2017, 36, 413-421.	3.9	71
56	Chemical kinetics of octane sensitivity in a spark-ignition engine. Combustion and Flame, 2017, 175, 2-15.	5.2	103
57	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
58	Toward the Development of a Fundamentally Based Chemical Model for Cyclopentanone: High-Pressure-Limit Rate Constants for H Atom Abstraction and Fuel Radical Decomposition. Journal of Physical Chemistry A, 2016, 120, 7037-7044.	2.5	20
59	Development of a reduced tri-propylene glycol monomethyl etherâ€“n-hexadecaneâ€“poly-aromatic hydrocarbon mechanism and its application for soot prediction. International Journal of Engine Research, 2016, 17, 969-982.	2.3	3
60	Diesel Surrogate Fuels for Engine Testing and Chemical-Kinetic Modeling: Compositions and Properties. Energy & Fuels, 2016, 30, 1445-1461.	5.1	137
61	A Multicomponent Blend as a Diesel Fuel Surrogate for Compression Ignition Engine Applications. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	85
62	Experimental and modeling study of burning velocities for alkyl aromatic components relevant to diesel fuels. Proceedings of the Combustion Institute, 2015, 35, 341-348.	3.9	43
63	Ignition of alkane-rich FACE gasoline fuels and their surrogate mixtures. Proceedings of the Combustion Institute, 2015, 35, 249-257.	3.9	138
64	Experimental and Kinetic Modeling Study of 2-Methyl-2-Butene: Allylic Hydrocarbon Kinetics. Journal of Physical Chemistry A, 2015, 119, 7462-7480.	2.5	62
65	An experimental and modeling study of diethyl carbonate oxidation. Combustion and Flame, 2015, 162, 1395-1405.	5.2	34
66	Autoignition of gasoline surrogates at low temperature combustion conditions. Combustion and Flame, 2015, 162, 2272-2285.	5.2	63
67	Autoignition response of n-butanol and its blends with primary reference fuel constituents of gasoline. Combustion and Flame, 2015, 162, 2466-2479.	5.2	20
68	Experimental and kinetic modeling study of the shock tube ignition of a large oxygenated fuel: Tri-propylene glycol mono-methyl ether. Combustion and Flame, 2015, 162, 2916-2927.	5.2	18
69	Experimental and Computational Study of n-Heptane Autoignition in a Direct-Injection Constant-Volume Combustion Chamber. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	1.1	3
70	An Experimental and Modeling Study Into Using Normal and Isocetane Fuel Blends as a Surrogate for a Hydroprocessed Renewable Diesel Fuel. Journal of Energy Resources Technology, Transactions of the ASME, 2014, 136, .	2.3	16
71	A Multi-Component Blend as a Diesel Fuel Surrogate for Compression Ignition Engine Applications. , 2014, , .		5
72	Development and validation of an n-dodecane skeletal mechanism forÂspray combustion applications. Combustion Theory and Modelling, 2014, 18, 187-203.	1.9	131

#	Article	IF	Citations
73	An experimental and modeling study of surrogate mixtures of n-propyl- and n-butylbenzene in n-heptane to simulate n-decylbenzene ignition. Combustion and Flame, 2014, 161, 1460-1473.	5.2	44
74	Intermediate temperature heat release in an HCCI engine fueled by ethanol/n-heptane mixtures: An experimental and modeling study. Combustion and Flame, 2014, 161, 680-695.	5.2	83
75	A comprehensive combustion chemistry study of 2,5-dimethylhexane. Combustion and Flame, 2014, 161, 1444-1459.	5.2	88
76	Experiments and modeling of the autoignition of methylcyclohexane at high pressure. Combustion and Flame, 2014, 161, 1972-1983.	5.2	92
77	A high-pressure rapid compression machine study of n-propylbenzene ignition. Combustion and Flame, 2014, 161, 65-74.	5.2	91
78	An experimental and modeling study of shock tube and rapid compression machine ignition of n-butylbenzene/air mixtures. Combustion and Flame, 2014, 161, 49-64.	5.2	126
79	A counterflow diffusion flame study of branched octane isomers. Proceedings of the Combustion Institute, 2013, 34, 1015-1023.	3.9	44
80	A comprehensive experimental and modeling study of iso-pentanol combustion. Combustion and Flame, 2013, 160, 2712-2728.	5.2	95
81	Uncertainty quantification of reaction mechanisms accounting for correlations introduced by rate rules and fitted Arrhenius parameters. Combustion and Flame, 2013, 160, 1583-1593.	5.2	70
82	An experimental and modeling study investigating the ignition delay in a military diesel engine running hexadecane (cetane) fuel. International Journal of Engine Research, 2013, 14, 57-67.	2.3	10
83	An experimental and modeling study of the autoignition of 3-methylheptane. Proceedings of the Combustion Institute, 2013, 34, 335-343.	3.9	33
84	Autoignition of gasoline and its surrogates in a rapid compression machine. Proceedings of the Combustion Institute, 2013, 34, 345-352.	3.9	92
85	An experimental and detailed chemical kinetic modeling study of hydrogen and syngas mixture oxidation at elevated pressures. Combustion and Flame, 2013, 160, 995-1011.	5.2	589
86	Formulation of an RP-1 pyrolysis surrogate from shock tube measurements of fuel and ethylene time histories. Fuel, 2013, 103, 1051-1059.	6.4	20
87	Ignition Delay and Heat-Release Rate for n-Heptane in a Direct-Injection Constant-Volume Combustion Chamber: Experiments and Computations. , 2013, , .		0
88	An Experimental and Modeling Study Into Using Normal and ISO Cetane Fuel Blends as a Surrogate for a Hydro-Processed Renewable Diesel (HRD) Fuel. , 2013, , .		3
89	An Experimental and Modeling-Based Study Into the Ignition Delay Characteristics of Diesel Surrogate Binary Blend Fuels. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	1.1	14
90	Hydrotreated Renewable Jet Fuel Ignition Delay Performance in a Military Diesel Engine: An Experimental and Modeling Study. , 2012, , .		4

#	Article	IF	Citations
91	Experimental and Kinetic Modeling Study of 3-Methylheptane in a Jet-Stirred Reactor. Energy & Fuels, 2012, 26, 4680-4689.	5.1	28
92	Development of Isopentanol Reaction Mechanism Reproducing Autoignition Character at High and Low Temperatures. Energy & Fuels, 2012, 26, 4871-4886.	5.1	46
93	Detailed Kinetic Modeling Study of n-Pentanol Oxidation. Energy & Fuels, 2012, 26, 6678-6685.	5.1	100
94	A reduced mechanism for biodiesel surrogates for compression ignition engine applications. Fuel, 2012, 99, 143-153.	6.4	125
95	Experimental and surrogate modeling study of gasoline ignition in a rapid compression machine. Combustion and Flame, 2012, 159, 3066-3078.	5.2	128
96	Methodology for Formulating Diesel Surrogate Fuels with Accurate Compositional, Ignition-Quality, and Volatility Characteristics. Energy & Fuels, 2012, 26, 3284-3303.	5.1	232
97	A comprehensive chemical kinetic combustion model for the four butanol isomers. Combustion and Flame, 2012, 159, 2028-2055.	5.2	463
98	Modeling the combustion of high molecular weight fuels by a functional group approach. International Journal of Chemical Kinetics, 2012, 44, 257-276.	1.6	23
99	Chemical Structures of Low-Pressure Premixed Methylcyclohexane Flames as Benchmarks for the Development of a Predictive Combustion Chemistry Model. Energy & Fuels, 2011, 25, 5611-5625.	5.1	48
100	An Approach for Formulating Surrogates for Gasoline with Application toward a Reduced Surrogate Mechanism for CFD Engine Modeling. Energy & Fuels, 2011, 25, 5215-5223.	5.1	252
101	An Experimental and Modeling-Based Study Into the Ignition Delay Characteristics of Diesel Surrogate Binary Blend Fuels. , 2011, , .		4
102	Comprehensive chemical kinetic modeling of the oxidation of 2-methylalkanes from C7 to C20. Combustion and Flame, 2011, 158, 2338-2357.	5.2	466
103	Detailed chemical kinetic reaction mechanisms for soy and rapeseed biodiesel fuels. Combustion and Flame, 2011, 158, 742-755.	5.2	238
104	An experimental and kinetic modeling study of n-octane and 2-methylheptane in an opposed-flow diffusion flame. Combustion and Flame, 2011, 158, 1277-1287.	5.2	44
105	Recent progress in the development of diesel surrogate fuels. Progress in Energy and Combustion Science, 2011, 37, 330-350.	31.2	605
106	Kinetic modeling of gasoline surrogate components and mixtures under engine conditions. Proceedings of the Combustion Institute, 2011, 33, 193-200.	3.9	921
107	Autoignition behavior of unsaturated hydrocarbons in the low and high temperature regions. Proceedings of the Combustion Institute, 2011, 33, 201-208.	3.9	119
108	A detailed kinetic modeling study of toluene oxidation in a premixed laminar flame. Proceedings of the Combustion Institute, 2011, 33, 233-241.	3.9	79

#	Article	IF	Citations
109	Detailed chemical kinetic mechanism for the oxidation of biodiesel fuels blend surrogate. Combustion and Flame, 2010, 157, 893-908.	5.2	333
110	A kinetic modeling study on the oxidation of primary reference fuelâ€“toluene mixtures including cross reactions between aromatics and aliphatics. Proceedings of the Combustion Institute, 2009, 32, 411-418.	3.9	95
111	A comprehensive detailed chemical kinetic reaction mechanism for combustion of n-alkane hydrocarbons from n-octane to n-hexadecane. Combustion and Flame, 2009, 156, 181-199.	5.2	721
112	The autoignition of iso-cetane at high to moderate temperatures and elevated pressures: Shock tube experiments and kinetic modeling. Combustion and Flame, 2009, 156, 2165-2172.	5.2	122
113	A combustion chemistry analysis of carbonate solvents used in Li-ion batteries. Journal of Power Sources, 2009, 193, 855-858.	7.8	101
114	Experimental and kinetic modeling study of extinction and ignition of methyl decanoate in laminar non-premixed flows. Proceedings of the Combustion Institute, 2009, 32, 1067-1074.	3.9	128
115	Detailed chemical kinetic oxidation mechanism for a biodiesel surrogate. Combustion and Flame, 2008, 154, 507-528.	5.2	399
116	Oxidation and combustion of the n-hexene isomers: A wide range kinetic modeling study. Combustion and Flame, 2008, 155, 756-772.	5.2	131
117	Modeling Iso-octane HCCI Using CFD with Multi-Zone Detailed Chemistry; Comparison to Detailed Speciation Data Over a Range of Lean Equivalence Ratios. , 2008, , .		36
118	Detailed Chemical Kinetic Modeling of Cyclohexane Oxidationâ€. Journal of Physical Chemistry A, 2007, 111, 3761-3775.	2.5	192
119	Portal-based Knowledge Environment for Collaborative Science. Concurrency Computation Practice and Experience, 2007, 19, 1703-1716.	2.2	9
120	Reduction of large detailed chemical kinetic mechanisms for autoignition using joint analyses of reaction rates and sensitivities. International Journal of Chemical Kinetics, 2007, 39, 181-196.	1.6	30
121	The development of a detailed chemical kinetic mechanism for diisobutylene and comparison to shock tube ignition times. Proceedings of the Combustion Institute, 2007, 31, 377-384.	3.9	73
122	A detailed chemical kinetic model for gas phase combustion of TNT. Proceedings of the Combustion Institute, 2007, 31, 2343-2351.	3.9	15
123	Chemical Kinetic Modeling Study of the Effects of Oxygenated Hydrocarbons on Soot Emissions from Diesel Enginesâ€. Journal of Physical Chemistry A, 2006, 110, 6912-6922.	2.5	476
124	Chemical kinetic modeling of dimethyl carbonate in an opposed-flow diffusion flame. Proceedings of the Combustion Institute, 2005, 30, 1111-1118.	3.9	155
125	Flame inhibition by phosphorus-containing compounds over a range of equivalence ratios. Combustion and Flame, 2005, 140, 103-115.	5.2	134
126	A Collaborative Informatics Infrastructure for Multi-Scale Science. Cluster Computing, 2005, 8, 243-253.	5.0	18

#	Article	IF	Citations
127	Development of the RIOT web service and information technologies to enable mechanism reduction for HCCI simulations. Journal of Physics: Conference Series, 2005, 16, 107-112.	0.4	3
128	A comprehensive modeling study of hydrogen oxidation. International Journal of Chemical Kinetics, 2004, 36, 603-622.	1.6	833
129	A comprehensive modeling study of iso-octane oxidation. Combustion and Flame, 2002, 129, 253-280.	5.2	1,211
130	A Sequential Fluid-Mechanic Chemical-Kinetic Model of Propane HCCI Combustion. , 2001, , .		78
131	Chemical kinetic modeling study of shock tube ignition of heptane isomers. International Journal of Chemical Kinetics, 2001, 33, 868-877.	1.6	77
132	The Ideal Gas Thermodynamics of Diesel Fuel Ingredients. I. Naphthalene Derivatives and Their Radicals. Journal of Physical and Chemical Reference Data, 2000, 29, 463-517.	4.2	12
133	Experimental and Modeling Study of Premixed Atmospheric-Pressure Dimethyl Etherâ"Air Flames. Journal of Physical Chemistry A, 2000, 104, 8194-8206.	2.5	182
134	A flow reactor study of neopentane oxidation at 8 atmospheres: experiments and modeling. Combustion and Flame, 1999, 118, 415-430.	5.2	71
135	Aromatic and Polycyclic Aromatic Hydrocarbon Formation in a Laminar Premixed n-Butane Flame. Combustion and Flame, 1998, 114, 192-213.	5.2	511
136	A Comprehensive Modeling Study of n-Heptane Oxidation. Combustion and Flame, 1998, 114, 149-177.	5.2	1,765
137	A wide range modeling study of dimethyl ether oxidation. International Journal of Chemical Kinetics, 1998, 30, 229-241.	1.6	313
138	Chemical Kinetic Modeling of Hydrogen under Conditions Found in Internal Combustion Engines. Energy & Fuels, 1998, 12, 78-82.	5.1	10
139	Methanol and hydrogen oxidation kinetics in water at supercritical states. Combustion and Flame, 1996, 106, 110-130.	5.2	56
140	Autoignition chemistry in a motored engine: An experimental and kinetic modeling study. Proceedings of the Combustion Institute, 1996, 26, 2669-2677.	0.3	41
141	Numerical Modeling Capabilities for the Simulation of Toxic By-Products Formation in Combustion Processes. Combustion Science and Technology, 1994, 101, 383-396.	2.3	3
142	The reaction of hydroperoxy-propyl radicals with molecular oxygen. Proceedings of the Combustion Institute, 1994, 25, 783-791.	0.3	12
143	A new comprehensive reaction mechanism for combustion of hydrocarbon fuels. Combustion and Flame, 1994, 99, 201-211.	5.2	93
144	Shock tube ignition of ethanol, isobutene and MTBE: Experiments and modeling. Proceedings of the Combustion Institute, 1992, 24, 769-776.	0.3	89

#	Article	IF	Citations
145	The Autoignition Chemistry of Paraffinic Fuels and Pro-Knock and Anti-Knock Additives: A Detailed Chemical Kinetic Study. , 1991, , .		71
146	Gaseous hydrocarboní—¸air detonations. Combustion and Flame, 1991, 84, 376-390.	5.2	78
147	Chemical kinetic modeling of ethene oxidation at low and intermediate temperatures. Proceedings of the Combustion Institute, 1991, 23, 203-210.	0.3	11
148	Oxidation of Propane at Elevated Pressures: Experiments and Modelling. Combustion Science and Technology, 1991, 77, 95-125.	2.3	34
149	Propene oxidation at low and intermediate temperatures: A detailed chemical kinetic studyâˆ†. Combustion and Flame, 1989, 77, 145-170.	5.2	119
150	A kinetic study of ethylene oxidation in a well-stirred reactor. Proceedings of the Combustion Institute, 1989, 22, 863-871.	0.3	17
151	A detailed chemical kinetic reaction mechanism for the oxidation of iso-octane and n-heptane over an extended temperature range and its application to analysis of engine knock. Proceedings of the Combustion Institute, 1989, 22, 893-901.	0.3	169
152	A kinetic modeling study of n-pentane oxidation in a well-stirred reactor. Combustion and Flame, 1988, 72, 45-62.	5.2	79
153	Chemical kinetics of the high pressure oxidation of n-butane and its relation to engine knock. Combustion and Flame, 1986, 63, 113-133.	5.2	178
154	Acetaldehyde oxidation in the negative temperature coefficient regime: Experimental and modeling results. International Journal of Chemical Kinetics, 1986, 18, 655-688.	1.6	85
155	Detailed chemical kinetic study of the effect of molecular structure on autoignition of fuel-air mixtures. Industrial & Engineering Chemistry Product Research and Development, 1986, 25, 159-162.	0.5	6
156	Chemistry of Fuel Oxidation Preceding End-Gas Autoignition. Combustion Science and Technology, 1986, 50, 3-25.	2.3	51
157	A comprehensive chemical kinetic reaction mechanism for the oxidation of N-butane. Proceedings of the Combustion Institute, 1985, 20, 831-843.	0.3	59
158	A Comprehensive Chemical Kinetic Reaction Mechanism for Oxidation and Pyrolysis of Propane and Propene. Combustion Science and Technology, 1984, 37, 117-152.	2.3	185
159	Effects of Propane on Ignition of Methane â€“Ethane â€“ Air Mixtures. Combustion Science and Technology, 1983, 33, 315-319.	2.3	30
160	Detailed Kinetic Modeling of Autoignition Chemistry. , 0, , .		24
161	Chemical Kinetic Modeling of Combustion of Practical Hydrocarbon Fuels. , 0, , .		8
162	Autoignition Chemistry of the Hexane Isomers: An Experimental and Kinetic Modeling Study. , 0, , .		13

#	Article	IF	Citations
163	A Multi-Zone Model for Prediction of HCCI Combustion and Emissions. , 0, , .		260
164	Fuel and Additive Characterization for HCCI Combustion. , 0, , .		28
165	Effects of Oxygenates on Soot Processes in DI Diesel Engines: Experiments and Numerical Simulations. , 0, , .		160
166	Using Carbon-14 Isotope Tracing to Investigate Molecular Structure Effects of the Oxygenate Dibutyl Maleate on Soot Emissions from a DI Diesel Engine. , 0, , .		36
167	Detailed Chemical Kinetic Modeling of Surrogate Fuels for Gasoline and Application to an HCCI Engine. , 0, , .		57
168	Effects of Toluene Addition to Primary Reference Fuel at High Temperature. , 0, , .		22
169	Understanding the Chemical Effects of Increased Boost Pressure under HCCI Conditions. SAE International Journal of Fuels and Lubricants, 0, 1, 12-25.	0.2	35
170	Integration Strategies for Efficient Multizone Chemical Kinetics Models. SAE International Journal of Fuels and Lubricants, 0, 3, 241-255.	0.2	5
171	Detailed Kinetic Modeling of HCCI Combustion with Isopentanol. SAE International Journal of Fuels and Lubricants, 0, 4, 257-270.	0.2	19
172	Detailed Kinetic Modeling of Conventional Gasoline at Highly Boosted Conditions and the Associated Intermediate Temperature Heat Release. , 0, , .		33
173	Effects of Fuel Laminar Flame Speed Compared to Engine Tumble Ratio, Ignition Energy, and Injection Strategy on Lean and EGR Dilute Spark Ignition Combustion. SAE International Journal of Fuels and Lubricants, 0, 10, 82-94.	0.2	35
174	The Reduced Effectiveness of EGR to Mitigate Knock at High Loads in Boosted SI Engines. SAE International Journal of Engines, 0, 10, 2305-2318.	0.4	71
175	Laminar Burning Velocities of High-Performance Fuels Relevant to the Co-Optima Initiative. SAE International Journal of Advances and Current Practices in Mobility, 0, 1, 1139-1147.	2.0	9
176	Computational Chemistry Consortium: Surrogate Fuel Mechanism Development, Pollutants Sub-Mechanisms and Components Library. , 0, , .		6