

Henry J. Curran

List of PR Articles by Year in descending order

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citing authors

#	ARTICLE	IF	PR CITATIONS
1	Impact of exhaust gas recirculation and nitric oxide on the autoignition of an oxygenated gasoline: Experiments and kinetic modelling. <i>Combustion and Flame</i> , 2024, 259, 113174.	6.0	13
2	A theoretical kinetic study of 1-butyne, 2-butyne, and 3-methyl-1-butyne combustion. <i>Combustion and Flame</i> , 2024, 259, 113178.	6.0	4
3	An experimental and chemical kinetic modeling study of octane isomer oxidation. Part 1: 2,3,4-trimethyl pentane. <i>Combustion and Flame</i> , 2024, 263, 113226.	6.0	7
4	The combustion chemistry of ammonia and ammonia/hydrogen mixtures: A comprehensive chemical kinetic modeling study. <i>Combustion and Flame</i> , 2024, 260, 113239.	6.0	129
5	An experimental and chemical kinetic modeling study of octane isomer oxidation. Part 2: 223- and 224-trimethylpentane. <i>Combustion and Flame</i> , 2024, 263, 113341.	6.0	10
6	Finding a common ground for RCM experiments. Part B: Benchmark study on ethanol ignition. <i>Combustion and Flame</i> , 2024, 262, 113338.	6.0	20
7	A comprehensive experimental and kinetic modeling study of p-cymene oxidation. <i>Combustion and Flame</i> , 2024, 262, 113337.	6.0	2
8	The high-temperature ignition kinetics of nitroethane: A shock-tube experimental and kinetic modeling study. <i>Combustion and Flame</i> , 2024, 262, 113358.	6.0	2
9	Ab initio kinetics for H-atom abstraction from C1–C5 hydrocarbon and oxygenated species by CH ₃ È radicals. <i>Combustion and Flame</i> , 2024, 263, 113410.	6.0	10
10	Systematic exploration of the thermochemistry for a set of peroxy hydroperoxy-alkyl radicals. <i>Proceedings of the Combustion Institute</i> , 2024, 40, 105618.	4.4	1
11	Mechanism development for larger alkanes by auto-generation and rate rule optimization: A case study of the pentane isomers. <i>Proceedings of the Combustion Institute</i> , 2024, 40, 105408.	4.4	7
12	A comprehensive experimental and kinetic modeling study of methyl tert-butyl ether combustion. <i>Proceedings of the Combustion Institute</i> , 2024, 40, 105685.	4.4	7
13	Effect of NO ₂ addition on the oxidation kinetics of n-pentane and natural gas blends with C1–C5 n-alkanes. <i>Proceedings of the Combustion Institute</i> , 2024, 40, 105720.	4.4	5
14	A theoretical and kinetic study of key reactions between ammonia and fuel molecules, part III: H-atom abstraction from esters by È ₁ ,H ₂ radicals. <i>Combustion and Flame</i> , 2024, 270, 113738.	6.0	8
15	An experimental and modeling study of hydrogen/n-decane blends. <i>Combustion and Flame</i> , 2024, 270, 113792.	6.0	10
16	A comprehensive experimental and kinetic modeling study of di-isobutylene isomers: Part 1. <i>Combustion and Flame</i> , 2023, 251, 112301.	6.0	4
17	A wide-range experimental and kinetic modeling study of the pyrolysis and oxidation of 2-butyne. <i>Proceedings of the Combustion Institute</i> , 2023, 39, 157-167.	4.4	12
18	Experimental and kinetic modeling study of the low- temperature and high-pressure combustion chemistry of straight chain pentanol isomers: 1-, 2- and 3-Pentanol. <i>Proceedings of the Combustion Institute</i> , 2023, 39, 265-274.	4.4	13

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19	The influence of thermochemistry on the reactivity of propane, the pentane isomers and n-heptane in the low temperature regime. Proceedings of the Combustion Institute, 2023, 39, 653-662.	4.4	6
20	When hydrogen is slower than methane to ignite. Proceedings of the Combustion Institute, 2023, 39, 253-263.	4.4	57
21	An experimental and modeling study of tetramethyl ethylene pyrolysis with polycyclic aromatic hydrocarbon formation. Proceedings of the Combustion Institute, 2023, 39, 1029-1037.	4.4	1
22	A wide-range experimental and kinetic modeling study of the pyrolysis and oxidation of 1-butyne. Proceedings of the Combustion Institute, 2023, 39, 355-364.	4.4	11
23	From electronic structure to model application of key reactions for gasoline/alcohol combustion: Hydrogen-atom abstraction by CH ₃ OĖ radicals. Proceedings of the Combustion Institute, 2023, 39, 415-423.	4.4	12
24	Ozone-assisted low-temperature oxidation of methane and ethane. Proceedings of the Combustion Institute, 2023, 39, 375-384.	4.4	14
25	An experimental auto-ignition and kinetic modelling study of binary and ternary cyclopentane/toluene/diisobutylene/iso-octane mixtures. Proceedings of the Combustion Institute, 2023, 39, 4959-4968.	4.4	13
26	Group additivity values for the heat of formation of C ₂ –C ₈ alkanes, alkyl hydroperoxides, and their radicals. Combustion and Flame, 2023, 257, 112492.	6.0	14
27	A wide range experimental study and further development of a kinetic model describing propane oxidation. Combustion and Flame, 2023, 248, 112562.	6.0	47
28	On the low-temperature chemistry of 1,3-butadiene. Proceedings of the Combustion Institute, 2023, 39, 365-373.	4.4	26
29	A comprehensive experimental and kinetic modeling study of di-isobutylene isomers: Part 2. Combustion and Flame, 2023, 251, 112547.	6.0	5
30	Understanding the low-temperature chemistry of 1,2,4-trimethylbenzene. Proceedings of the Combustion Institute, 2023, 39, 673-684.	4.4	12
31	Pyridinium-Inspired Organocatalysts for Carbon Dioxide Fixation: A Density Functional Theory Inspection. Journal of Physical Chemistry A, 2023, 127, 29-37.	2.5	3
32	Systematically derived thermodynamic properties for alkane oxidation. Combustion and Flame, 2023, 257, 112487.	6.0	18
33	High-Accuracy Heats of Formation for Alkane Oxidation: From Small to Large via the Automated CBH-ANL Method. Journal of Physical Chemistry A, 2023, 127, 1512-1531.	2.5	26
34	A wide range experimental and kinetic modeling study of the oxidation of 2,3-dimethyl-2-butene: Part 1. Combustion and Flame, 2023, 251, 112731.	6.0	2
35	Kinetic Properties Study of H Atom Abstraction by CH ₃ Ė Radicals from Fuel Molecules with Different Functional Groups. Journal of Physical Chemistry A, 2023, 127, 1960-1974.	2.5	9
36	Experimental and Updated Kinetic Modeling Study of Neopentane Low Temperature Oxidation. Journal of Physical Chemistry A, 2023, 127, 2113-2122.	2.5	9

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37	Chemical insight into the ozone-assisted low-temperature oxidation of propane. <i>Combustion and Flame</i> , 2023, 254, 112814.	6.0	10
38	Ignition delay times of C1–C7 natural gas blends in the intermediate and high temperature regimes: Experiment and correlation. <i>Fuel</i> , 2023, 354, 129299.	7.5	6
39	An experimental and kinetic modeling study of NO _x sensitization on methane autoignition and oxidation. <i>Combustion and Flame</i> , 2022, 238, 111746.	6.0	45
40	Effect of nitric oxide and exhaust gases on gasoline surrogate autoignition: iso-octane experiments and modeling. <i>Combustion and Flame</i> , 2022, 236, 111807.	6.0	50
41	A new detailed kinetic model for surrogate fuels: C3MechV3.3. <i>Applications in Energy and Combustion Science</i> , 2022, 9, 100043.	1.8	47
42	H ₂ +O ₂ : High level theory and the role of singlet channels. <i>Combustion and Flame</i> , 2022, 243, 111975.	6.0	58
43	Theoretical correction on the existing understanding for hydroper-oxymethyl formate dissociation in DME low temperature oxidation. <i>Combustion and Flame</i> , 2022, 241, 112065.	6.0	5
44	The effect of the addition of nitrogen oxides on the oxidation of ethane: An experimental and modelling study. <i>Combustion and Flame</i> , 2022, 241, 112058.	6.0	26
45	An experimental and kinetic modeling study of the pyrolysis of isoprene, a significant biogenic hydrocarbon in naturally occurring vegetation fires. <i>Combustion and Flame</i> , 2022, 242, 112206.	6.0	9
46	The effect of the addition of nitrogen oxides on the oxidation of propane: An experimental and modeling study. <i>Combustion and Flame</i> , 2022, 245, 112306.	6.0	43
47	Further insights into the core mechanism of H ₂ /CO/NO _x reaction system. <i>Combustion and Flame</i> , 2022, 245, 112308.	6.0	29
48	An experimental and kinetic modeling study of ammonia/n-heptane blends. <i>Combustion and Flame</i> , 2022, 246, 112428.	6.0	110
49	An experimental and kinetic modeling study of the auto-ignition of natural gas blends containing C1–C7 alkanes. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 365-373.	4.4	78
50	A comprehensive experimental and improved kinetic modeling study on the pyrolysis and oxidation of propyne. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 479-488.	4.4	56
51	A single pulse shock tube study of pentene isomer pyrolysis. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 881-889.	4.4	44
52	A kinetics and dynamics study on the auto-ignition of dimethyl ether at low temperatures and low pressures. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 601-609.	4.4	18
53	A comparative reactivity study of 1-alkene fuels from ethylene to 1-heptene. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 611-619.	4.4	50
54	Development of a 5-component gasoline surrogate model using recent advancements in the detailed H ₂ /O ₂ /CO/C1-C3 mechanism for decoupling methodology. <i>Fuel</i> , 2021, 283, 118793.	7.5	20

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55	A comprehensive experimental and kinetic modeling study of 1- and 2-pentene. <i>Combustion and Flame</i> , 2021, 223, 166-180.	6.0	61
56	The impact of the third O ₂ addition reaction network on ignition delay times of neo-pentane. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 299-307.	4.4	8
57	A detailed chemical kinetic modeling and experimental investigation of the low- and high-temperature chemistry of n-butylcyclohexane. <i>International Journal of Chemical Kinetics</i> , 2021, 53, 465-475.	1.5	23
58	An experimental and kinetic modeling study of cyclopentane and dimethyl ether blends. <i>Combustion and Flame</i> , 2021, 225, 255-271.	6.0	32
59	Numerical study on the minimum ignition energy of a methane-air mixture. <i>Fuel</i> , 2021, 285, 119230.	7.5	26
60	A chemical kinetic perspective on the low-temperature oxidation of propane/propene mixtures through experiments and kinetic analyses. <i>Combustion and Flame</i> , 2021, 223, 361-375.	6.0	82
61	Development of Multipurpose Skeletal Core Combustion Chemical Kinetic Mechanisms. <i>Energy & Fuels</i> , 2021, 35, 6921-6927.	5.2	28
62	Understanding the antagonistic effect of methanol as a component in surrogate fuel models: A case study of methanol/n-heptane mixtures. <i>Combustion and Flame</i> , 2021, 226, 229-242.	6.0	244
63	Ignition Studies of C ₁ –C ₇ Natural Gas Blends at Gas-Turbine-Relevant Conditions. <i>Journal of Engineering for Gas Turbines and Power</i> , 2021, 143, .	1.3	7
64	An experimental and kinetic modeling study of the ignition delay characteristics of binary blends of ethane/propane and ethylene/propane in multiple shock tubes and rapid compression machines over a wide range of temperature, pressure, equivalence ratio, and dilution. <i>Combustion and Flame</i> , 2021, 228, 401-414.	6.0	40
65	Hierarchical Study of the Reactions of Hydrogen Atoms with Alkenes: A Theoretical Study of the Reactions of Hydrogen Atoms with C ₂ –C ₄ Alkenes. <i>Journal of Physical Chemistry A</i> , 2021, 125, 5124-5145.	2.5	10
66	Analysis of Auto-Ignition Chemistry in Aeroderivative Premixers at Engine Conditions. <i>Journal of Engineering for Gas Turbines and Power</i> , 2021, 143, .	1.3	12
67	Ignition Delay Time Correlation of C ₁ - C ₅ Natural Gas Blends for Intermediate and High Temperature Regime. <i>Journal of Engineering for Gas Turbines and Power</i> , 2021, . .	1.3	1
68	Experimental and Kinetic Modeling Study of 3-Methyl-2-butenol (Prenol) Oxidation. <i>Energy & Fuels</i> , 2021, 35, 13999-14009.	5.2	16
69	A comprehensive experimental and kinetic modeling study of 1-hexene. <i>Combustion and Flame</i> , 2021, 232, 111516.	6.0	25
70	An experimental and detailed kinetic modeling study of the pyrolysis and oxidation of allene and propyne over a wide range of conditions. <i>Combustion and Flame</i> , 2021, 233, 111578.	6.0	48
71	A fundamental study on the pyrolysis of hydrocarbons. <i>Combustion and Flame</i> , 2021, 233, 111579.	6.0	33
72	A comprehensive experimental and modeling study of the ignition delay time characteristics of ternary and quaternary blends of methane, ethane, ethylene, and propane over a wide range of temperature, pressure, equivalence ratio, and dilution. <i>Combustion and Flame</i> , 2021, 234, 111626.	6.0	61

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73	Comparative Chemical Kinetic Analysis and Skeletal Mechanism Generation for Syngas Combustion with NO _x Chemistry. <i>Energy & Fuels</i> , 2020, 34, 949-964.	5.2	38
74	The influence of iso-butene kinetics on the reactivity of di-isobutylene and iso-octane. <i>Combustion and Flame</i> , 2020, 222, 186-195.	6.0	44
75	Combustion of n-C ₃ –C ₆ Linear Alcohols: An Experimental and Kinetic Modeling Study. Part I: Reaction Classes, Rate Rules, Model Lumping, and Validation. <i>Energy & Fuels</i> , 2020, 34, 14688-14707.	5.2	34
76	Ignition delay time measurements of diesel and gasoline blends. <i>Combustion and Flame</i> , 2020, 222, 460-475.	6.0	26
77	A pyrolysis study of allylic hydrocarbon fuels. <i>International Journal of Chemical Kinetics</i> , 2020, 52, 964-978.	1.5	34
78	Combustion of n-C ₃ –C ₆ 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. <i>Energy & Fuels</i> , 2020, 34, 14708-14725.	5.2	36
79	Hindered rotor benchmarks for the transition states of free radical additions to unsaturated hydrocarbons. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 27241-27254.	2.7	3
80	An ab Initio/Transition State Theory Study of the Reactions of Å ₅ H ₉ Species of Relevance to 1,3-Pentadiene, Part II: Pressure Dependent Rate Constants and Implications for Combustion Modeling. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4605-4631.	2.5	20
81	Comprehensive Experimental and Simulation Study of the Ignition Delay Time Characteristics of Binary Blended Methane, Ethane, and Ethylene over a Wide Range of Temperature, Pressure, Equivalence Ratio, and Dilution. <i>Energy & Fuels</i> , 2020, 34, 8808-8823.	5.2	132
82	Evaluation of non-ideal piston stopping effects on the adiabatic core and ignition delay time simulation in rapid compression machines. <i>Combustion and Flame</i> , 2020, 218, 229-233.	6.0	5
83	A hierarchical single-pulse shock tube pyrolysis study of C ₂ –C ₆ 1-alkenes. <i>Combustion and Flame</i> , 2020, 219, 456-466.	6.0	92
84	A Comprehensive Experimental and Simulation Study of Ignition Delay Time Characteristics of Single Fuel C ₁ –C ₂ Hydrocarbons over a Wide Range of Temperatures, Pressures, Equivalence Ratios, and Dilutions. <i>Energy & Fuels</i> , 2020, 34, 3755-3771.	5.2	105
85	Theoretical Study of the Reaction of Hydrogen Atoms with Three Pentene Isomers: 2-Methyl-1-butene, 2-Methyl-2-butene, and 3-Methyl-1-butene. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10649-10666.	2.5	22
86	New experimental insights into acetylene oxidation through novel ignition delay times, laminar burning velocities and chemical kinetic modelling. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 583-591.	4.4	28
87	A chemical kinetic interpretation of the octane appetite of modern gasoline engines. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4857-4864.	4.4	13
88	Developing detailed chemical kinetic mechanisms for fuel combustion. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 57-81.	4.4	317
89	Small ester combustion chemistry: Computational kinetics and experimental study of methyl acetate and ethyl acetate. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 419-428.	4.4	57
90	An experimental, theoretical, and modeling study of the ignition behavior of cyclopentanone. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 657-665.	4.4	25

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91	Theoretical, Experimental, and Modeling Study of the Reaction of Hydrogen Atoms with 1- and 2-Pentene. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8506-8526.	2.5	25
92	Ab Initio/Transition-State Theory Study of the Reactions of C_5H_9 Species of Relevance to 1,3-Pentadiene, Part I: Potential Energy Surfaces, Thermochemistry, and High-Pressure Limiting Rate Constants. <i>Journal of Physical Chemistry A</i> , 2019, 123, 9019-9052.	2.5	22
93	An experimental and kinetic modeling study of the oxidation of hexane isomers: Developing consistent reaction rate rules for alkanes. <i>Combustion and Flame</i> , 2019, 206, 123-137.	6.0	77
94	Detailed kinetic modeling of dimethoxymethane. Part II: Experimental and theoretical study of the kinetics and reaction mechanism. <i>Combustion and Flame</i> , 2019, 205, 522-533.	6.0	108
95	Species measurements of the particulate matter reducing additive triethylpropylene glycol monomethyl ether. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1257-1264.	4.4	1
96	Testing the validity of a mechanism describing the oxidation of binary n-heptane/toluene mixtures at engine operating conditions. <i>Combustion and Flame</i> , 2019, 199, 241-248.	6.0	18
97	The combustion kinetics of the lignocellulosic biofuel, ethyl levulinate. <i>Combustion and Flame</i> , 2018, 193, 157-169.	6.0	35
98	A comparative study of the effect of varied reaction environments on a swirl stabilized flame geometry via optical measurements. <i>Fuel</i> , 2018, 216, 826-834.	7.5	6
99	An experimental and modeling study of the ignition of dimethyl carbonate in shock tubes and rapid compression machine. <i>Combustion and Flame</i> , 2018, 188, 212-226.	6.0	62
100	The importance of endothermic pyrolysis reactions in the understanding of diesel spray combustion. <i>Fuel</i> , 2018, 224, 302-310.	7.5	16
101	Detailed kinetic modeling of dimethoxymethane. Part I: Ab initio thermochemistry and kinetics predictions for key reactions. <i>Combustion and Flame</i> , 2018, 189, 433-442.	6.0	59
102	Probing the low-temperature chemistry of ethanol via the addition of dimethyl ether. <i>Combustion and Flame</i> , 2018, 190, 74-86.	6.0	86
103	An experimental and chemical kinetic modeling study of 1,3-butadiene combustion: Ignition delay time and laminar flame speed measurements. <i>Combustion and Flame</i> , 2018, 197, 423-438.	6.0	614
104	Extensive Theoretical Study of the Thermochemical Properties of Unsaturated Hydrocarbons and Allylic and Super-Allylic Radicals: The Development and Optimization of Group Additivity Values. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4736-4749.	2.5	43
105	An experimental and modelling study of n-pentane oxidation in two jet-stirred reactors: The importance of pressure-dependent kinetics and new reaction pathways. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 441-448.	4.4	110
106	A theoretical study of cyclic ether formation reactions. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 161-167.	4.4	39
107	Chemical Kinetics of Hydrogen Atom Abstraction from Allylic Sites by O_2 ; Implications for Combustion Modeling and Simulation. <i>Journal of Physical Chemistry A</i> , 2017, 121, 1890-1899.	2.5	50
108	A comprehensive iso-octane combustion model with improved thermochemistry and chemical kinetics. <i>Combustion and Flame</i> , 2017, 178, 111-134.	6.0	183

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109	An extensive experimental and modeling study of 1-butene oxidation. <i>Combustion and Flame</i> , 2017, 181, 198-213.	6.0	93
110	Assessing the predictions of a NO _x kinetic mechanism on recent hydrogen and syngas experimental data. <i>Combustion and Flame</i> , 2017, 182, 122-141.	6.0	238
111	Cyclopentane combustion. Part II. Ignition delay measurements and mechanism validation. <i>Combustion and Flame</i> , 2017, 183, 372-385.	6.0	61
112	Uncertainty quantification of a newly optimized methanol and formaldehyde combustion mechanism. <i>Combustion and Flame</i> , 2017, 186, 45-64.	6.0	92
113	Pyrolysis of n-pentane, n-hexane and n-heptane in a single pulse shock tube. <i>Combustion and Flame</i> , 2017, 185, 335-345.	6.0	47
114	Theoretical Kinetics Analysis for $\dot{\phi}$ Atom Addition to 1,3-Butadiene and Related Reactions on the $\dot{A}S_{4₄H_{7₇}$ Potential Energy Surface. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7433-7445.	2.5	69
115	Autoignition characteristics of oxygenated gasolines. <i>Combustion and Flame</i> , 2017, 186, 114-128.	6.0	73
116	An RCM experimental and modeling study on CH ₄ and CH ₄ /C ₂ H ₆ oxidation at pressures up to 160 bar. <i>Fuel</i> , 2017, 206, 325-333.	7.5	55
117	Advances in rapid compression machine studies of low- and intermediate-temperature autoignition phenomena. <i>Progress in Energy and Combustion Science</i> , 2017, 63, 1-78.	39.5	232
118	Ignition characteristics of 2-methyltetrahydrofuran: An experimental and kinetic study. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 587-595.	4.4	33
119	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. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 413-421.	4.4	89
120	The oxidation of 2-butene: A high pressure ignition delay, kinetic modeling study and reactivity comparison with isobutene and 1-butene. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 403-411.	4.4	430
121	Towards a kinetic understanding of the NO promoting-effect on ignition of coalbed methane: A case study of methane/nitrogen dioxide mixtures. <i>Fuel</i> , 2016, 181, 188-198.	7.5	38
122	Ignition studies of n-heptane/iso-octane/toluene blends. <i>Combustion and Flame</i> , 2016, 171, 223-233.	6.0	107
123	Optimized reaction mechanism rate rules for ignition of normal alkanes. <i>Combustion and Flame</i> , 2016, 173, 468-482.	6.0	151
124	An updated experimental and kinetic modeling study of n-heptane oxidation. <i>Combustion and Flame</i> , 2016, 172, 116-135.	6.0	394
125	Toward the Development of a Fundamentally Based Chemical Model for Cyclopentanone: High-Pressure-Limit Rate Constants for H Atom Abstraction and Fuel Radical Decomposition. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7037-7044.	2.5	23
126	Modeling Nitrogen Species as Pollutants: Thermochemical Influences. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7192-7197.	2.5	41

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127	Development of a Joint Hydrogen and Syngas Combustion Mechanism Based on an Optimization Approach. <i>International Journal of Chemical Kinetics</i> , 2016, 48, 407-422.	1.5	168
128	A comprehensive experimental and modeling study of isobutene oxidation. <i>Combustion and Flame</i> , 2016, 167, 353-379.	6.0	335
129	Modeling Ignition of a Heptane Isomer: Improved Thermodynamics, Reaction Pathways, Kinetics, and Rate Rule Optimizations for 2-Methylhexane. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2201-2217.	2.5	60
130	A detailed chemical kinetic modeling, ignition delay time and jet-stirred reactor study of methanol oxidation. <i>Combustion and Flame</i> , 2016, 165, 125-136.	6.0	307
131	An ignition delay time and chemical kinetic modeling study of the pentane isomers. <i>Combustion and Flame</i> , 2016, 163, 138-156.	6.0	209
132	Simplified Approach to the Prediction and Analysis of Temperature Inhomogeneity in Rapid Compression Machines. <i>Energy & Fuels</i> , 2015, 29, 8216-8225.	5.2	15
133	An experimental and modeling study of propene oxidation. Part 2: Ignition delay time and flame speed measurements. <i>Combustion and Flame</i> , 2015, 162, 296-314.	6.0	301
134	Comparison of the performance of several recent syngas combustion mechanisms. <i>Combustion and Flame</i> , 2015, 162, 1793-1812.	6.0	133
135	Decomposition Studies of Isopropanol in a Variable Pressure Flow Reactor. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015, 229, 881-907.	2.7	12
136	Experimental and Kinetic Modeling Study of 2-Methyl-2-Butene: Allylic Hydrocarbon Kinetics. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7462-7480.	2.5	64
137	An experimental and modeling study of diethyl carbonate oxidation. <i>Combustion and Flame</i> , 2015, 162, 1395-1405.	6.0	52
138	Experimental and kinetic modeling study of the shock tube ignition of a large oxygenated fuel: Tri-propylene glycol mono-methyl ether. <i>Combustion and Flame</i> , 2015, 162, 2916-2927.	6.0	21
139	Revisiting the Kinetics and Thermodynamics of the Low-Temperature Oxidation Pathways of Alkanes: A Case Study of the Three Pentane Isomers. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7510-7527.	2.5	227
140	An experimental and kinetic modeling study of n-hexane oxidation. <i>Combustion and Flame</i> , 2015, 162, 4194-4207.	6.0	141
141	Influence of steam dilution on the ignition of hydrogen, syngas and natural gas blends at elevated pressures. <i>Combustion and Flame</i> , 2015, 162, 1126-1135.	6.0	71
142	An experimental and kinetic modeling study of the pyrolysis and oxidation of n-C3C5 aldehydes in shock tubes. <i>Combustion and Flame</i> , 2015, 162, 265-286.	6.0	67
143	An ignition delay and kinetic modeling study of methane, dimethyl ether, and their mixtures at high pressures. <i>Combustion and Flame</i> , 2015, 162, 315-330.	6.0	429
144	The pyrolysis of 2-methylfuran: a quantum chemical, statistical rate theory and kinetic modelling study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5349.	2.7	113

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