

# Philippe Dagaut

## List of Publications by Year in Descending Order

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**Version:** 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

271 papers	11,508 citations	61 h-index	92 g-index
286 ext. papers	12,750 ext. citations	4.6 avg, IF	6.53 L-index

#	Paper	IF	Citations
271	A comprehensive experimental and modeling study of n-propylcyclohexane oxidation. <i>Combustion and Flame</i> , <b>2022</b> , 238, 111944	5.3	1
270	Gasoline Surrogate Oxidation in a Motored Engine, a JSR, and an RCM: Characterization of Cool-Flame Products by High-Resolution Mass Spectrometry. <i>Energy &amp; Fuels</i> , <b>2022</b> , 36, 3893-3908	4.1	1
269	Revisiting low temperature oxidation chemistry of n-heptane. <i>Combustion and Flame</i> , <b>2022</b> , 242, 112177	5.3	1
268	Experimental Characterization of Tetrahydrofuran Low-Temperature Oxidation Products Including Ketohydroperoxides and Highly Oxygenated Molecules. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 7242-7252	4.1	6
267	On the similarities and differences between the products of oxidation of hydrocarbons under simulated atmospheric conditions and cool flames. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 7845-7862	6.8	4
266	Polar Aromatic Compounds in Soot from Premixed Flames of Kerosene, Synthetic Paraffinic Kerosene, and Kerosene/Synthetic Biofuels. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 11427-11444	4.1	1
265	Oxidation of C5 esters: Influence of the position of the ester function. <i>International Journal of Chemical Kinetics</i> , <b>2021</b> , 53, 1124-1132	1.4	1
264	Exploring pyrolysis and oxidation chemistry of o-xylene at various pressures with special concerns on PAH formation. <i>Combustion and Flame</i> , <b>2021</b> , 228, 351-363	5.3	0
263	Low-temperature oxidation of a gasoline surrogate: Experimental investigation in JSR and RCM using high-resolution mass spectrometry. <i>Combustion and Flame</i> , <b>2021</b> , 228, 128-141	5.3	5
262	Oxidation of diethyl ether: Extensive characterization of products formed at low temperature using high resolution mass spectrometry. <i>Combustion and Flame</i> , <b>2021</b> , 228, 340-350	5.3	5
261	A pyrolysis study on C4-C8 symmetric ethers. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 329-336	5.9	3
260	Oxidation of di-n-propyl ether: Characterization of low-temperature products. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 337-344	5.9	13
259	Oxidation of pentan-2-ol [Part II: Experimental and modeling study. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 833-841	5.9	2
258	On the implications of nitromethane/NO chemistry interactions for combustion processes. <i>Fuel</i> , <b>2021</b> , 289, 119861	7.1	4
257	Oxidation of pentan-2-ol [Part I: Theoretical investigation on the decomposition and isomerization reactions of pentan-2-ol radicals. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 823-832	5.9	2
256	Experimental and numerical studies of the diluent influence (N <sub>2</sub> , Ar, He, Xe) on stable premixed methane flames in micro-combustion. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 6753-6761	5.9	2
255	Experimental characterization of n-heptane low-temperature oxidation products including keto-hydroperoxides and highly oxygenated organic molecules (HOMs). <i>Combustion and Flame</i> , <b>2021</b> , 224, 83-93	5.3	11

254	An experimental and kinetic modeling study on the oxidation of 1,3-dioxolane. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 543-553	5.9	9
253	Experimental and kinetic modeling study of n-pentane oxidation at 10 atm, Detection of complex low-temperature products by Q-Exactive Orbitrap. <i>Combustion and Flame</i> , <b>2021</b> , 235, 111723	5.3	1
252	Experimental and kinetic modeling study of n-hexane oxidation. Detection of complex low-temperature products using high-resolution mass spectrometry. <i>Combustion and Flame</i> , <b>2021</b> , 233, 111581	5.3	4
251	A high pressure oxidation study of di-n-propyl ether. <i>Fuel</i> , <b>2020</b> , 263, 116554	7.1	9
250	Cool flame chemistry of diesel surrogate compounds: n-Decane, 2-methylnonane, 2,7-dimethyloctane, and n-butylcyclohexane. <i>Combustion and Flame</i> , <b>2020</b> , 219, 384-392	5.3	5
249	Oxidation of di-n-butyl ether: Experimental characterization of low-temperature products in JSR and RCM. <i>Combustion and Flame</i> , <b>2020</b> , 222, 133-144	5.3	17
248	Experimental and kinetic modeling study of the oxidation of cyclopentane and methylcyclopentane at atmospheric pressure. <i>International Journal of Chemical Kinetics</i> , <b>2020</b> , 52, 943-956	1.4	1
247	Methyl-3-hexenoate combustion chemistry: Experimental study and numerical kinetic simulation. <i>Combustion and Flame</i> , <b>2020</b> , 222, 170-180	5.3	7
246	Experiments for kinetic mechanism assessment. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 45, 445-471	6.6	3
245	Ozone-assisted combustion of hydrogen: A comparison with isooctane. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 13953-13963	6.7	7
244	Low-temperature chemistry triggered by probe cooling in a low-pressure premixed flame. <i>Combustion and Flame</i> , <b>2019</b> , 204, 260-267	5.3	14
243	Kinetics of propyl acetate oxidation: Experiments in a jet-stirred reactor, ab initio calculations, and rate constant determination. <i>Proceedings of the Combustion Institute</i> , <b>2019</b> , 37, 429-436	5.9	10
242	An experimental and modeling study of the oxidation of 3-pentanol at high pressure. <i>Proceedings of the Combustion Institute</i> , <b>2019</b> , 37, 477-484	5.9	7
241	New insights into propanal oxidation at low temperatures: An experimental and kinetic modeling study. <i>Proceedings of the Combustion Institute</i> , <b>2019</b> , 37, 565-573	5.9	10
240	Insights into the oxidation kinetics of a cetane improver 1,2-dimethoxyethane (1,2-DME) with experimental and modeling methods. <i>Proceedings of the Combustion Institute</i> , <b>2019</b> , 37, 555-564	5.9	6
239	Kinetics of oxidation of levulinic biofuels in a jet-stirred reactor: Methyl levulinate. <i>Proceedings of the Combustion Institute</i> , <b>2019</b> , 37, 381-388	5.9	4
238	The atmospheric impact of the reaction of N <sub>2</sub> O with NO <sub>3</sub> : A theoretical study. <i>Chemical Physics Letters</i> , <b>2019</b> , 731, 136605	2.5	3
237	On the Oxidation of Ammonia and Mutual Sensitization of the Oxidation of No and Ammonia: Experimental and Kinetic Modeling. <i>Combustion Science and Technology</i> , <b>2019</b> , 1-13	1.5	7

236	Emission of Carbonyl and Polyaromatic Hydrocarbon Pollutants From the Combustion of Liquid Fuels: Impact of Biofuel Blending. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>2019</b> , 141,	1.7	3
235	Pyrolysis of butane-2,3-dione from low to high pressures: Implications for methyl-related growth chemistry. <i>Combustion and Flame</i> , <b>2019</b> , 200, 69-81	5.3	11
234	Exploring gasoline oxidation chemistry in jet stirred reactors. <i>Fuel</i> , <b>2019</b> , 236, 1282-1292	7.1	29
233	More insight into cyclohexanone oxidation: Jet-stirred reactor experiments and kinetic modeling. <i>Fuel</i> , <b>2018</b> , 220, 908-915	7.1	3
232	An experimental chemical kinetic study of the oxidation of diethyl ether in a jet-stirred reactor and comprehensive modeling. <i>Combustion and Flame</i> , <b>2018</b> , 193, 453-462	5.3	28
231	Exploring the negative temperature coefficient behavior of acetaldehyde based on detailed intermediate measurements in a jet-stirred reactor. <i>Combustion and Flame</i> , <b>2018</b> , 192, 120-129	5.3	23
230	Pulsating combustion of ethylene in micro-channels with controlled temperature gradient. <i>Combustion Science and Technology</i> , <b>2018</b> , 1-11	1.5	2
229	n-Heptane cool flame chemistry: Unraveling intermediate species measured in a stirred reactor and motored engine. <i>Combustion and Flame</i> , <b>2018</b> , 187, 199-216	5.3	47
228	Experimental and modeling studies of a biofuel surrogate compound: laminar burning velocities and jet-stirred reactor measurements of anisole. <i>Combustion and Flame</i> , <b>2018</b> , 189, 325-336	5.3	32
227	Exploration of the oxidation chemistry of dimethoxymethane: Jet-stirred reactor experiments and kinetic modeling. <i>Combustion and Flame</i> , <b>2018</b> , 193, 491-501	5.3	36
226	Combustion of synthetic jet fuels: Naphthenic cut and blend with a gas-to-liquid (GtL) jet fuel. <i>Proceedings of the Combustion Institute</i> , <b>2017</b> , 36, 433-440	5.9	9
225	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> , <b>2017</b> , 36, 441-448	5.9	66
224	Experimental and Modeling Study of the Oxidation of Two Branched Aldehydes in a Jet-Stirred Reactor: 2-Methylbutanal and 3-Methylbutanal. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 3206-3218	4.1	4
223	A Chemical Kinetic Investigation on Butyl Formate Oxidation: Ab Initio Calculations and Experiments in a Jet-Stirred Reactor. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 6194-6205	4.1	4
222	Screening Method for Fuels in Homogeneous Charge Compression Ignition Engines: Application to Valeric Biofuels. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 607-614	4.1	17
221	Quantities of Interest in Jet Stirred Reactor Oxidation of a High-Octane Gasoline. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 5543-5553	4.1	16
220	A comprehensive experimental and kinetic modeling study of n-propylbenzene combustion. <i>Combustion and Flame</i> , <b>2017</b> , 186, 178-192	5.3	25
219	A chemical kinetic study of the oxidation of dibutyl-ether in a jet-stirred reactor. <i>Combustion and Flame</i> , <b>2017</b> , 185, 4-15	5.3	45

218	Unraveling the structure and chemical mechanisms of highly oxygenated intermediates in oxidation of organic compounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 13102-13107	11.5	80
217	Burning velocities and jet-stirred reactor oxidation of diethyl carbonate. <i>Proceedings of the Combustion Institute</i> , <b>2017</b> , 36, 553-560	5.9	7
216	Experimental and Detailed Kinetic Modeling Study of Cyclopentanone Oxidation in a Jet-Stirred Reactor at 1 and 10 atm. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 2144-2155	4.1	18
215	New insights into the low-temperature oxidation of 2-methylhexane. <i>Proceedings of the Combustion Institute</i> , <b>2017</b> , 36, 373-382	5.9	30
214	An experimental study in a jet-stirred reactor and a comprehensive kinetic mechanism for the oxidation of methyl ethyl ketone. <i>Proceedings of the Combustion Institute</i> , <b>2017</b> , 36, 459-467	5.9	26
213	Jet-stirred reactor oxidation of alkane-rich FACE gasoline fuels. <i>Proceedings of the Combustion Institute</i> , <b>2017</b> , 36, 517-524	5.9	23
212	Elucidating reactivity regimes in cyclopentane oxidation: Jet stirred reactor experiments, computational chemistry, and kinetic modeling. <i>Proceedings of the Combustion Institute</i> , <b>2017</b> , 36, 469-477	5.9	27
211	Quantification of the Keto-Hydroperoxide (HOOCHOCHO) and Other Elusive Intermediates during Low-Temperature Oxidation of Dimethyl Ether. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 7890-7901	2.8	72
210	Fuel Class Valerates <b>2016</b> , 59-85		1
209	Combustion in micro-channels with a controlled temperature gradient. <i>Experimental Thermal and Fluid Science</i> , <b>2016</b> , 73, 79-86	3	48
208	A comprehensive experimental and kinetic modeling study of ethylbenzene combustion. <i>Combustion and Flame</i> , <b>2016</b> , 166, 255-265	5.3	48
207	A detailed chemical kinetic modeling, ignition delay time and jet-stirred reactor study of methanol oxidation. <i>Combustion and Flame</i> , <b>2016</b> , 165, 125-136	5.3	162
206	Additional chain-branching pathways in the low-temperature oxidation of branched alkanes. <i>Combustion and Flame</i> , <b>2016</b> , 164, 386-396	5.3	72
205	Oscillating flames in micro-combustion. <i>Combustion and Flame</i> , <b>2016</b> , 167, 392-394	5.3	34
204	Experimental and Kinetic Modeling of the Oxidation of Synthetic Jet Fuels and Surrogates. <i>Combustion Science and Technology</i> , <b>2016</b> , 188, 1705-1718	1.5	7
203	Kinetics of Oxidation of a 100% Gas-to-Liquid Synthetic Jet Fuel and a Mixture GtL/1-Hexanol in a Jet-Stirred Reactor: Experimental and Modeling Study. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>2015</b> , 137,	1.7	6
202	Quantification of HO <sub>2</sub> and other products of dimethyl ether oxidation (H <sub>2</sub> O <sub>2</sub> , H <sub>2</sub> O, and CH <sub>2</sub> O) in a jet-stirred reactor at elevated temperatures by low-pressure sampling and continuous-wave cavity ring-down spectroscopy. <i>Fuel</i> , <b>2015</b> , 158, 248-252	7.1	17
201	Computational Kinetic Study for the Unimolecular Decomposition of Cyclopentanone. <i>International Journal of Chemical Kinetics</i> , <b>2015</b> , 47, 439-446	1.4	14

200	An experimental and modeling study of diethyl carbonate oxidation. <i>Combustion and Flame</i> , <b>2015</b> , 162, 1395-1405	5.3	20
199	Experimental and kinetic modeling study of styrene combustion. <i>Combustion and Flame</i> , <b>2015</b> , 162, 1868-1883	5.3	40
198	Ozone applied to the homogeneous charge compression ignition engine to control alcohol fuels combustion. <i>Applied Energy</i> , <b>2015</b> , 160, 566-580	10.7	47
197	Theoretical kinetic study for methyl levulinate: oxidation by OH and CH <sub>3</sub> radicals and further unimolecular decomposition pathways. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 23384-91	3.6	18
196	An experimental and kinetic modeling study of n-hexane oxidation. <i>Combustion and Flame</i> , <b>2015</b> , 162, 4194-4207	5.3	98
195	Investigation on the pyrolysis and oxidation of toluene over a wide range conditions. I. Flow reactor pyrolysis and jet stirred reactor oxidation. <i>Combustion and Flame</i> , <b>2015</b> , 162, 3-21	5.3	126
194	Investigation on the pyrolysis and oxidation of toluene over a wide range conditions. II. A comprehensive kinetic modeling study. <i>Combustion and Flame</i> , <b>2015</b> , 162, 22-40	5.3	86
193	Computational Kinetic Study for the Unimolecular Decomposition Pathways of Cyclohexanone. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 7138-44	2.8	15
192	Experimental and kinetic modeling study of trans-2-butene oxidation in a jet-stirred reactor and a combustion bomb. <i>Proceedings of the Combustion Institute</i> , <b>2015</b> , 35, 317-324	5.9	25
191	An experimental and modeling study of n-octanol combustion. <i>Proceedings of the Combustion Institute</i> , <b>2015</b> , 35, 419-427	5.9	72
190	Application of an Ozone Generator to Control the Homogeneous Charge Compression Ignition Combustion Process <b>2015</b> ,		4
189	Towards Stoichiometric Combustion in HCCI Engines: Effect of Ozone Seeding and Dilution <b>2015</b> ,		5
188	Identification and Quantification of Aromatic Hydrocarbons Adsorbed on Soot from Premixed Flames of Kerosene, Synthetic Kerosene, and Kerosene-Synthetic Biofuels. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 6556-6564	4.1	7
187	The Combustion of Synthetic Jet Fuels (Gas to Liquid and Coal to Liquid) and Multi-Component Surrogates: Experimental and Modeling Study <b>2015</b> ,		3
186	Laminar burning velocities of premixed nitromethane/air flames: An experimental and kinetic modeling study. <i>Proceedings of the Combustion Institute</i> , <b>2015</b> , 35, 703-710	5.9	33
185	Investigation of iso-octane combustion in a homogeneous charge compression ignition engine seeded by ozone, nitric oxide and nitrogen dioxide. <i>Proceedings of the Combustion Institute</i> , <b>2015</b> , 35, 3125-3132	5.9	56
184	Kinetics of oxidation of cyclohexanone in a jet-stirred reactor: Experimental and modeling. <i>Proceedings of the Combustion Institute</i> , <b>2015</b> , 35, 507-514	5.9	23
183	Detection and Identification of the Keto-Hydroperoxide (HOOCH <sub>2</sub> OCHO) and Other Intermediates during Low-Temperature Oxidation of Dimethyl Ether. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 7361-74	2.8	111

182	Investigation of the photochemical reactivity of soot particles derived from biofuels toward NO <sub>2</sub> . A kinetic and product study. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 2006-15	2.8	5
181	Experimental and Modeling Study of the Oxidation of 1-Butene and cis-2-Butene in a Jet-Stirred Reactor and a Combustion Vessel. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 1107-1118	4.1	29
180	Chemical kinetics modeling of n-nonane oxidation in oxygen/argon using excited-state species time histories. <i>Combustion and Flame</i> , <b>2014</b> , 161, 1146-1163	5.3	5
179	Experimental and detailed kinetic model for the oxidation of a Gas to Liquid (GtL) jet fuel. <i>Combustion and Flame</i> , <b>2014</b> , 161, 835-847	5.3	92
178	An experimental and modeling study of 2-methyl-1-butanol oxidation in a jet-stirred reactor. <i>Combustion and Flame</i> , <b>2014</b> , 161, 3003-3013	5.3	26
177	Experimental Study of the Oxidation of N-Tetradecane in a Jet-Stirred Reactor (JSR) and Detailed Chemical Kinetic Modeling. <i>Combustion Science and Technology</i> , <b>2014</b> , 186, 594-606	1.5	6
176	An alternative to trial and error methodology in solid phase extraction: an original automated solid phase extraction procedure for analysing PAHs and PAH-derivatives in soot. <i>RSC Advances</i> , <b>2014</b> , 4, 33636-33644	3.7	12
175	Photodegradation of pyrene on Al <sub>2</sub> O <sub>3</sub> surfaces: a detailed kinetic and product study. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 7007-16	2.8	12
174	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. <i>Fuel</i> , <b>2014</b> , 137, 179-184	7.1	39
173	A comprehensive combustion chemistry study of 2,5-dimethylhexane. <i>Combustion and Flame</i> , <b>2014</b> , 161, 1444-1459	5.3	71
172	Experimental and kinetic modeling study of trans-methyl-3-hexenoate oxidation in JSR and the role of CC double bond. <i>Combustion and Flame</i> , <b>2014</b> , 161, 818-825	5.3	35
171	Effect of Additives on Combustion Characteristics of a Natural Gas Fueled HCCI Engine <b>2014</b> ,		11
170	Combustion and Emissions Characteristics of Valeric Biofuels in a Compression Ignition Engine. <i>Journal of Energy Engineering - ASCE</i> , <b>2014</b> , 140,	1.7	24
169	Combustion of a Gas-to-LiquidBased Alternative Jet Fuel: Experimental and Detailed Kinetic Modeling. <i>Combustion Science and Technology</i> , <b>2014</b> , 186, 1275-1283	1.5	7
168	Quantitative Measurements of HO <sub>2</sub> and other products of n-butane oxidation (H <sub>2</sub> O <sub>2</sub> , H <sub>2</sub> O, CH <sub>2</sub> O, and C <sub>2</sub> H <sub>4</sub> ) at elevated temperatures by direct coupling of a jet-stirred reactor with sampling nozzle and cavity ring-down spectroscopy (cw-CRDS). <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 16689-94	16.4	20
167	New insights into the peculiar behavior of laminar burning velocities of hydrogen-air flames according to pressure and equivalence ratio. <i>Combustion and Flame</i> , <b>2014</b> , 161, 2235-2241	5.3	33
166	Homogeneous Charge Compression Ignition Combustion of Primary Reference Fuels Influenced by Ozone Addition. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 5495-5505	4.1	46
165	Mineral oxides change the atmospheric reactivity of soot: NO <sub>2</sub> uptake under dark and UV irradiation conditions. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 12897-911	2.8	12

164	Experimental Study of Tetralin Oxidation and Kinetic Modeling of Its Pyrolysis and Oxidation. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 1576-1585	4.1	21
163	A comprehensive experimental and modeling study of iso-pentanol combustion. <i>Combustion and Flame</i> , <b>2013</b> , 160, 2712-2728	5.3	77
162	Influence of ozone on the combustion of n-heptane in a HCCI engine. <i>Proceedings of the Combustion Institute</i> , <b>2013</b> , 34, 3005-3012	5.9	74
161	Jet-stirred reactor and flame studies of propanal oxidation. <i>Proceedings of the Combustion Institute</i> , <b>2013</b> , 34, 599-606	5.9	33
160	Experimental and modeling study of the oxidation of n- and iso-butanal. <i>Combustion and Flame</i> , <b>2013</b> , 160, 1609-1626	5.3	33
159	A comprehensive experimental and detailed chemical kinetic modelling study of 2,5-dimethylfuran pyrolysis and oxidation. <i>Combustion and Flame</i> , <b>2013</b> , 160, 2291-2291	5.3	118
158	Experimental and semi-detailed kinetic modeling study of decalin oxidation and pyrolysis over a wide range of conditions. <i>Proceedings of the Combustion Institute</i> , <b>2013</b> , 34, 289-296	5.9	44
157	Experimental and numerical analysis of nitric oxide effect on the ignition of iso-octane in a single cylinder HCCI engine. <i>Combustion and Flame</i> , <b>2013</b> , 160, 1476-1483	5.3	72
156	Engine Performances and Emissions of Second-Generation Biofuels in Spark Ignition Engines: The Case of Methyl and Ethyl Valerates <b>2013</b> ,		10
155	Oxidation Kinetics of Mixtures of Iso-Octane with Ethanol or Butanol in a Jet-Stirred Reactor: Experimental and Modeling Study. <i>Combustion Science and Technology</i> , <b>2012</b> , 184, 1025-1038	1.5	16
154	Experimental and Kinetic Modeling Study of 3-Methylheptane in a Jet-Stirred Reactor. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 4680-4689	4.1	24
153	Experimental and Modeling Study of the Oxidation Kinetics of n-Undecane and n-Dodecane in a Jet-Stirred Reactor. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 4253-4268	4.1	57
152	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. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 4735-4748	4.1	51
151	Laminar Burning Velocities of C4-C7 Ethyl Esters in a Spherical Combustion Chamber: Experimental and Detailed Kinetic Modeling. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 6669-6677	4.1	37
150	Oxidation of a Coal-to-Liquid Synthetic Jet Fuel: Experimental and Chemical Kinetic Modeling Study. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 6070-6079	4.1	41
149	Autoignition of surrogate biodiesel fuel (B30) at high pressures: Experimental and modeling kinetic study. <i>Combustion and Flame</i> , <b>2012</b> , 159, 996-1008	5.3	24
148	Kinetics of Oxidation of a Reformulated Jet Fuel (1-Hexanol/Jet A-1) in a Jet-Stirred Reactor: Experimental and Modeling Study. <i>Combustion Science and Technology</i> , <b>2012</b> , 184, 1039-1050	1.5	8
147	Experimental and Detailed Kinetic Modeling Study of the Effect of Ozone on the Combustion of Methane. <i>Energy &amp; Fuels</i> , <b>2011</b> , 25, 2909-2916	4.1	68

146	Experimental and detailed kinetic modeling study of 1-pentanol oxidation in a JSR and combustion in a bomb. <i>Proceedings of the Combustion Institute</i> , <b>2011</b> , 33, 367-374	5.9	92
145	Experimental and kinetic modeling of methyl octanoate oxidation in an opposed-flow diffusion flame and a jet-stirred reactor. <i>Proceedings of the Combustion Institute</i> , <b>2011</b> , 33, 1037-1043	5.9	45
144	Oxidation of commercial and surrogate bio-Diesel fuels (B30) in a jet-stirred reactor at elevated pressure: Experimental and modeling kinetic study. <i>Proceedings of the Combustion Institute</i> , <b>2011</b> , 33, 375-382	5.9	41
143	Auto-ignition and combustion characteristics in HCCI and JSR using 1-butanol/n-heptane and ethanol/n-heptane blends. <i>Proceedings of the Combustion Institute</i> , <b>2011</b> , 33, 3007-3014	5.9	98
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15	The gas phase reactions of hydroxyl radicals with a series of aliphatic ethers over the temperature range 240-440 K. <i>International Journal of Chemical Kinetics</i> , <b>1988</b> , 20, 41-49	1.4	89
14	The gas phase reactions of hydroxyl radicals with a series of esters over the temperature range 240-440 K. <i>International Journal of Chemical Kinetics</i> , <b>1988</b> , 20, 177-186	1.4	96
13	The gas phase reactions of hydroxyl radicals with a series of carboxylic acids over the temperature range 240-440 K. <i>International Journal of Chemical Kinetics</i> , <b>1988</b> , 20, 331-338	1.4	43
12	Rate constants for the gas phase reactions of OH with C <sub>5</sub> through C <sub>7</sub> aliphatic alcohols and ethers: Predicted and experimental values. <i>International Journal of Chemical Kinetics</i> , <b>1988</b> , 20, 541-547	1.4	75
11	The UV absorption spectra and kinetics of the self reactions of CH <sub>2</sub> ClO <sub>2</sub> and CH <sub>2</sub> FO <sub>2</sub> radicals in the gas phase. <i>International Journal of Chemical Kinetics</i> , <b>1988</b> , 20, 815-826	1.4	19
10	Energy transfer from vibrationally excited pentafluorobenzene to helium, xenon and water vapor. <i>Chemical Physics Letters</i> , <b>1988</b> , 144, 299-304	2.5	1
9	A flash photolysis investigation of the UV absorption spectrum and self-reaction kinetics of CH <sub>2</sub> ClCH <sub>2</sub> O <sub>2</sub> radicals in the gas phase. <i>Chemical Physics Letters</i> , <b>1988</b> , 146, 589-595	2.5	12
8	Measurements of the gas phase UV absorption spectrum of C <sub>2</sub> H <sub>5</sub> O <sub>2</sub> radicals and of the temperature dependence of the rate constant for their self-reaction. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1988</b> , 42, 173-185	4.7	22
7	Energy transfer from vibrationally excited SF <sub>6</sub> to benzene, hexafluorobenzene, fluorobenzene and toluene. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1988</b> , 45, 151-165	4.7	1
6	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. <i>Environmental Science &amp; Technology</i> , <b>1988</b> , 22, 842-4	10.3	62
5	Correlation between gas-phase and solution-phase reactivities of hydroxyl radicals towards saturated organic compounds. <i>The Journal of Physical Chemistry</i> , <b>1988</b> , 92, 5024-5028		46
4	A kinetic investigation of the gas-phase reactions of hydroxyl radicals with cyclic ketones and diones: mechanistic insights. <i>The Journal of Physical Chemistry</i> , <b>1988</b> , 92, 4375-4377		57
3	The temperature dependence of the rate constant for the hydroperoxy + methylperoxy gas-phase reaction. <i>The Journal of Physical Chemistry</i> , <b>1988</b> , 92, 3833-3836		25

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| 2 | Flash photolysis kinetic absorption spectroscopy study of the gas-phase reaction hydroperoxy radical + ethylperoxy radical over the temperature range 228-380 K. <i>The Journal of Physical Chemistry</i> , <b>1988</b> , 92, 3836-3839 | 24     |
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