

Philippe Dagaut

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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	The ignition, oxidation, and combustion of kerosene: A review of experimental and kinetic modeling. <i>Progress in Energy and Combustion Science</i> , 2006 , 32, 48-92	33.6	396
270	An experimental and kinetic modeling study of n-butanol combustion. <i>Combustion and Flame</i> , 2009 , 156, 852-864	5.3	253
269	The oxidation of hydrogen cyanide and related chemistry. <i>Progress in Energy and Combustion Science</i> , 2008 , 34, 1-46	33.6	223
268	On the kinetics of hydrocarbons oxidation from natural gas to kerosene and diesel fuel. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 2079-2094	3.6	213
267	A wide-ranging kinetic modeling study of methyl butanoate combustion. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 305-311	5.9	201
266	A chemical kinetic study of n-butanol oxidation at elevated pressure in a jet stirred reactor. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 229-237	5.9	189
265	The combustion of kerosene: Experimental results and kinetic modelling using 1- to 3-component surrogate model fuels. <i>Fuel</i> , 2006 , 85, 944-956	7.1	165
264	High Pressure Oxidation of Liquid Fuels From Low to High Temperature. 1. n-Heptane and iso-Octane.. <i>Combustion Science and Technology</i> , 1993 , 95, 233-260	1.5	165
263	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	5.3	162
262	Experimental study of the oxidation of n-heptane in a jet stirred reactor from low to high temperature and pressures up to 40 atm. <i>Combustion and Flame</i> , 1995 , 101, 132-140	5.3	142
261	A comparison of saturated and unsaturated C4 fatty acid methyl esters in an opposed flow diffusion flame and a jet stirred reactor. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 1015-1022	5.9	137
260	Oxidation, ignition and combustion of toluene: Experimental and detailed chemical kinetic modeling. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 1846-1854	3.6	136
259	Numerical and experimental study of ethanol combustion and oxidation in laminar premixed flames and in jet-stirred reactor. <i>Combustion and Flame</i> , 2011 , 158, 705-725	5.3	133
258	Rapeseed oil methyl ester oxidation over extended ranges of pressure, temperature, and equivalence ratio: Experimental and modeling kinetic study. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 2955-2961	5.9	132
257	Experimental and chemical kinetic modeling study of small methyl esters oxidation: Methyl (E)-2-butenate and methyl butanoate. <i>Combustion and Flame</i> , 2008 , 155, 635-650	5.3	129
256	The oxidation and ignition of dimethylether from low to high temperature (500–600 K): Experiments and kinetic modeling. <i>Proceedings of the Combustion Institute</i> , 1998 , 27, 361-369		128
255	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> , 2015 , 162, 3-21	5.3	126

254	HCCI combustion: Effect of NO in EGR. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 2879-2886	5.9	125
253	A comprehensive experimental and detailed chemical kinetic modelling study of 2,5-dimethylfuran pyrolysis and oxidation. <i>Combustion and Flame</i> , 2013 , 160, 2291-2291	5.3	118
252	Effects of Dilution on Laminar Burning Velocity of Premixed Methane/Air Flames. <i>Energy & Fuels</i> , 2011 , 25, 948-954	4.1	116
251	Detection and Identification of the Keto-Hydroperoxide (HOOCH ₂ OCHO) and Other Intermediates during Low-Temperature Oxidation of Dimethyl Ether. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 7361-7408	2.8	111
250	Oxidation kinetics of butanol/gasoline surrogate mixtures in a jet-stirred reactor: Experimental and modeling study. <i>Fuel</i> , 2008 , 87, 3313-3321	7.1	100
249	Experimental study and detailed kinetic modeling of the effect of exhaust gas on fuel combustion: mutual sensitization of the oxidation of nitric oxide and methane over extended temperature and pressure ranges. <i>Combustion and Flame</i> , 2005 , 140, 161-171	5.3	100
248	An experimental and kinetic modeling study of n-hexane oxidation. <i>Combustion and Flame</i> , 2015 , 162, 4194-4207	5.3	98
247	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> , 2011 , 33, 3007-3014	5.9	98
246	Methane Oxidation: Experimental and Kinetic Modeling Study. <i>Combustion Science and Technology</i> , 1991 , 77, 127-148	1.5	96
245	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> , 1988 , 20, 177-186	1.4	96
244	Chemical kinetic study of dimethylether oxidation in a jet stirred reactor from 1 to 10 ATM: Experiments and kinetic modeling. <i>Proceedings of the Combustion Institute</i> , 1996 , 26, 627-632		93
243	Experimental and detailed kinetic model for the oxidation of a Gas to Liquid (GtL) jet fuel. <i>Combustion and Flame</i> , 2014 , 161, 835-847	5.3	92
242	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> , 2011 , 33, 367-374	5.9	92
241	Acetylene Oxidation in a JSR From 1 to 10 Atm and Comprehensive Kinetic Modeling. <i>Combustion Science and Technology</i> , 1994 , 102, 21-55	1.5	90
240	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> , 1988 , 20, 41-49	1.4	89
239	Kerosene combustion at pressures up to 40 atm: Experimental study and detailed chemical kinetic modeling. <i>Proceedings of the Combustion Institute</i> , 1994 , 25, 919-926		88
238	Investigation on the pyrolysis and oxidation of toluene over a wide range conditions. II. A comprehensive kinetic modeling study. <i>Combustion and Flame</i> , 2015 , 162, 22-40	5.3	86
237	Experimental and Detailed Modeling Study of the Effect of Water Vapor on the Kinetics of Combustion of Hydrogen and Natural Gas, Impact on NO _x . <i>Energy & Fuels</i> , 2009 , 23, 725-734	4.1	84

236	Experimental and Kinetic Modeling Study of the Oxidation of Methyl Hexanoate. <i>Energy & Fuels</i> , 2008 , 22, 1469-1479	4.1	84
235	Kinetics of ethane oxidation. <i>International Journal of Chemical Kinetics</i> , 1991 , 23, 437-455	1.4	84
234	Experimental and Modeling Study of the Kinetics of Oxidation of Butanol-Heptane Mixtures in a Jet-stirred Reactor. <i>Energy & Fuels</i> , 2009 , 23, 3527-3535	4.1	83
233	Experimental and Modeling Study of the Kinetics of Oxidation of Ethanol-Gasoline Surrogate Mixtures (E85 Surrogate) in a Jet-Stirred Reactor. <i>Energy & Fuels</i> , 2008 , 22, 3499-3505	4.1	83
232	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> , 2017 , 114, 13102-13107	11.5	80
231	Experimental and kinetic modeling study of the effect of NO and SO ₂ on the oxidation of CO/H ₂ mixtures. <i>International Journal of Chemical Kinetics</i> , 2003 , 35, 564-575	1.4	79
230	A comprehensive experimental and modeling study of iso-pentanol combustion. <i>Combustion and Flame</i> , 2013 , 160, 2712-2728	5.3	77
229	Rate constants for the gas phase reactions of OH with C ₅ through C ₇ aliphatic alcohols and ethers: Predicted and experimental values. <i>International Journal of Chemical Kinetics</i> , 1988 , 20, 541-547	1.4	75
228	Influence of ozone on the combustion of n-heptane in a HCCI engine. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 3005-3012	5.9	74
227	The oxidation of n-Hexadecane: experimental and detailed kinetic modeling. <i>Combustion and Flame</i> , 2001 , 125, 1128-1137	5.3	74
226	Ethylene pyrolysis and oxidation: A kinetic modeling study. <i>International Journal of Chemical Kinetics</i> , 1990 , 22, 641-664	1.4	73
225	An experimental and modeling study of n-octanol combustion. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 419-427	5.9	72
224	Quantification of the Keto-Hydroperoxide (HOOCHOCHO) and Other Elusive Intermediates during Low-Temperature Oxidation of Dimethyl Ether. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 7890-7901	2.8	72
223	Additional chain-branching pathways in the low-temperature oxidation of branched alkanes. <i>Combustion and Flame</i> , 2016 , 164, 386-396	5.3	72
222	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> , 2013 , 160, 1476-1483	5.3	72
221	A comprehensive combustion chemistry study of 2,5-dimethylhexane. <i>Combustion and Flame</i> , 2014 , 161, 1444-1459	5.3	71
220	Chemical kinetic study of the effect of a biofuel additive on jet-A1 combustion. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 3992-4000	2.8	69
219	Experimental and modelling study of gasoline surrogate mixtures oxidation in jet stirred reactor and shock tube. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 385-391	5.9	69

218	Experimental and Detailed Kinetic Modeling Study of the Effect of Ozone on the Combustion of Methane. <i>Energy & Fuels</i> , 2011 , 25, 2909-2916	4.1	68
217	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	5.9	66
216	Experimental and modeling study of the kinetics of oxidation of ethanol-n-heptane mixtures in a jet-stirred reactor. <i>Fuel</i> , 2010 , 89, 280-286	7.1	65
215	Experimental and Detailed Kinetic Modeling Study of Isoamyl Alcohol (Isopentanol) Oxidation in a Jet-Stirred Reactor at Elevated Pressure. <i>Energy & Fuels</i> , 2011 , 25, 4986-4998	4.1	64
214	High pressure effects on the mutual sensitization of the oxidation of NO and CH ₄ -C ₂ H ₆ blends. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 4230-44	3.6	63
213	Oxidation of dimethoxymethane in a jet-stirred reactor. <i>Combustion and Flame</i> , 2001 , 125, 1106-1117	5.3	63
212	Chemical kinetic modeling of the supercritical-water oxidation of methanol. <i>Journal of Supercritical Fluids</i> , 1996 , 9, 33-42	4.2	63
211	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 & Technology</i> , 1988 , 22, 842-4	10.3	62
210	Experimental and detailed kinetic modeling study of the high pressure oxidation of methanol sensitized by nitric oxide and nitrogen dioxide. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 411-418	5.9	60
209	Experimental and modeling study of the oxidation of natural gas in a premixed flame, shock tube, and jet-stirred reactor. <i>Combustion and Flame</i> , 2004 , 137, 109-128	5.3	60
208	A jet-stirred reactor and kinetic modeling study of ethyl propanoate oxidation. <i>Combustion and Flame</i> , 2009 , 156, 250-260	5.3	58
207	Modeling the Oxidation of Mixtures of Primary Reference Automobile Fuels. <i>Energy & Fuels</i> , 2002 , 16, 1186-1195	4.1	58
206	Experimental and Modeling Study of the Oxidation Kinetics of n-Undecane and n-Dodecane in a Jet-Stirred Reactor. <i>Energy & Fuels</i> , 2012 , 26, 4253-4268	4.1	57
205	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> , 1988 , 92, 4375-4377		57
204	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> , 2015 , 35, 3125-3132	5.9	56
203	Detailed Kinetic Mechanism for the Oxidation of Vegetable Oil Methyl Esters: New Evidence from Methyl Heptanoate. <i>Energy & Fuels</i> , 2009 , 23, 4254-4268	4.1	56
202	The oxidation of a diesel fuel at 110atm: Experimental study in a JSR and detailed chemical kinetic modeling. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 2939-2946	5.9	56
201	Nitric oxide interactions with hydrocarbon oxidation in a jet-stirred reactor at 10 atm. <i>Combustion and Flame</i> , 2006 , 145, 512-520	5.3	55

200	Experimental kinetic study of the oxidation of <i>p</i> -xylene in a JSR and comprehensive detailed chemical kinetic modeling. <i>Combustion and Flame</i> , 2005 , 141, 281-297	5.3	54
199	The Low Temperature Oxidation of DME and Mutual Sensitization of the Oxidation of DME and Nitric Oxide: Experimental and Detailed Kinetic Modeling. <i>Combustion Science and Technology</i> , 2001 , 165, 61-84	1.5	54
198	Experiments and Kinetic Modeling Study of NO-Reburning by Gases from Biomass Pyrolysis in a JSR. <i>Energy & Fuels</i> , 2003 , 17, 608-613	4.1	52
197	Experimental and detailed kinetic modeling study of hydrogen-enriched natural gas blend oxidation over extended temperature and equivalence ratio ranges. <i>Proceedings of the Combustion Institute</i> , 2005 , 30, 2631-2638	5.9	52
196	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 & Fuels</i> , 2012 , 26, 4735-4748	4.1	51
195	Oxidation of H ₂ /CO ₂ mixtures and effect of hydrogen initial concentration on the combustion of CH ₄ and CH ₄ /CO ₂ mixtures: Experiments and modeling. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 427-435	5.9	51
194	Kinetic modeling of propane oxidation and pyrolysis. <i>International Journal of Chemical Kinetics</i> , 1992 , 24, 813-837	1.4	51
193	Kinetic measurements of the gas-phase reactions of hydroxyl radicals with hydroxy ethers, hydroxy ketones, and keto ethers. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 7838-7840		51
192	Kinetics of Oxidation of 2-Butanol and Isobutanol in a Jet-Stirred Reactor: Experimental Study and Modeling Investigation. <i>Energy & Fuels</i> , 2010 , 24, 5244-5256	4.1	50
191	EFFECTS OF AIR CONTAMINATION ON THE COMBUSTION OF HYDROGEN-EFFECT OF NO AND NO ₂ ADDITION ON HYDROGEN IGNITION AND OXIDATION KINETICS. <i>Combustion Science and Technology</i> , 2006 , 178, 1999-2024	1.5	50
190	Kinetics of 1-hexene oxidation in a JSR and a shock tube: Experimental and modeling study. <i>Combustion and Flame</i> , 2006 , 147, 67-78	5.3	50
189	Experimental and Detailed Kinetic Modeling of the Oxidation of Methane and Methane/Syngas Mixtures and Effect of Carbon Dioxide Addition. <i>Combustion Science and Technology</i> , 2008 , 180, 2046-2091	1.5	49
188	Combustion in micro-channels with a controlled temperature gradient. <i>Experimental Thermal and Fluid Science</i> , 2016 , 73, 79-86	3	48
187	A comprehensive experimental and kinetic modeling study of ethylbenzene combustion. <i>Combustion and Flame</i> , 2016 , 166, 255-265	5.3	48
186	Experimental and Detailed Kinetic Modeling Study of 1-Hexanol Oxidation in a Pressurized Jet-Stirred Reactor and a Combustion Bomb. <i>Energy & Fuels</i> , 2010 , 24, 5859-5875	4.1	48
185	Ozone applied to the homogeneous charge compression ignition engine to control alcohol fuels combustion. <i>Applied Energy</i> , 2015 , 160, 566-580	10.7	47
184	n-Heptane cool flame chemistry: Unraveling intermediate species measured in a stirred reactor and motored engine. <i>Combustion and Flame</i> , 2018 , 187, 199-216	5.3	47
183	Homogeneous Charge Compression Ignition Combustion of Primary Reference Fuels Influenced by Ozone Addition. <i>Energy & Fuels</i> , 2013 , 27, 5495-5505	4.1	46

182	Occurrence of NO-reburning in MILD combustion evidenced via chemical kinetic modeling. <i>Fuel</i> , 2006 , 85, 2469-2478	7.1	46
181	Correlation between gas-phase and solution-phase reactivities of hydroxyl radicals towards saturated organic compounds. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 5024-5028		46
180	A chemical kinetic study of the oxidation of dibutyl-ether in a jet-stirred reactor. <i>Combustion and Flame</i> , 2017 , 185, 4-15	5.3	45
179	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> , 2011 , 33, 1037-1043	5.9	45
178	Kinetics of Oxidation of Commercial and Surrogate Diesel Fuels in a Jet-Stirred Reactor: Experimental and Modeling Studies. <i>Energy & Fuels</i> , 2010 , 24, 1668-1676	4.1	45
177	A Comparative Study of the Kinetics of Benzene Formation from Unsaturated C2 to C4 Hydrocarbons. <i>Combustion and Flame</i> , 1998 , 113, 620-623	5.3	45
176	Hydrogen-enriched natural gas blend oxidation under high-pressure conditions: Experimental and detailed chemical kinetic modeling. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 505-515	6.7	45
175	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> , 2013 , 34, 289-296	5.9	44
174	Oxidation of Natural Gas, Natural Gas/Syngas Mixtures, and Effect of Burnt Gas Recirculation: Experimental and Detailed Kinetic Modeling. <i>Journal of Engineering for Gas Turbines and Power</i> , 2008 , 130,	1.7	44
173	The gas phase reactions of hydroxyl radicals with a series of carboxylic acids over the temperature range 240–40 K. <i>International Journal of Chemical Kinetics</i> , 1988 , 20, 331-338	1.4	43
172	Oxidation of a Coal-to-Liquid Synthetic Jet Fuel: Experimental and Chemical Kinetic Modeling Study. <i>Energy & Fuels</i> , 2012 , 26, 6070-6079	4.1	41
171	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> , 2011 , 33, 375-382	5.9	41
170	EXPERIMENTAL STUDY AND DETAILED KINETIC MODELING OF THE MUTUAL SENSITIZATION OF THE OXIDATION OF NITRIC OXIDE, ETHYLENE, AND ETHANE. <i>Combustion Science and Technology</i> , 2005 , 177, 1767-1791	1.5	41
169	Experimental and kinetic modeling study of styrene combustion. <i>Combustion and Flame</i> , 2015 , 162, 1868-1883	5.5	40
168	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> , 2014 , 137, 179-184	7.1	39
167	Laminar Burning Velocities of C4–C7 Ethyl Esters in a Spherical Combustion Chamber: Experimental and Detailed Kinetic Modeling. <i>Energy & Fuels</i> , 2012 , 26, 6669-6677	4.1	37
166	Mutual Sensitization of the Oxidation of Nitric Oxide and Simple Fuels Over an Extended Temperature Range: Experimental and Detailed Kinetic Modeling. <i>Combustion Science and Technology</i> , 1999 , 148, 27-57	1.5	37
165	Experimental and Modeling Study of the Kinetics of Oxidation of Simple Biodiesel/Biobutanol Surrogates: Methyl Octanoate/Butanol Mixtures. <i>Energy & Fuels</i> , 2010 , 24, 3906-3916	4.1	36

164	The reduction of NO by ethylene in a jet-stirred reactor at 1 atm: experimental and kinetic modelling. <i>Combustion and Flame</i> , 1999 , 119, 494-504	5-3	36
163	Exploration of the oxidation chemistry of dimethoxymethane: Jet-stirred reactor experiments and kinetic modeling. <i>Combustion and Flame</i> , 2018 , 193, 491-501	5-3	36
162	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> , 2014 , 161, 818-825	5-3	35
161	Oxidation of oxygenated octane improvers: MTBE, ETBE, DIPE, and TAME. <i>Proceedings of the Combustion Institute</i> , 1998 , 27, 353-360		35
160	Experimental and kinetic modeling study of the effect of SO ₂ on the reduction of NO by ammonia. <i>Proceedings of the Combustion Institute</i> , 2005 , 30, 1211-1218	5-9	35
159	Experimental and kinetic modeling of nitric oxide reduction by acetylene in an atmospheric pressure jet-stirred reactor. <i>Fuel</i> , 1999 , 78, 1245-1252	7-1	35
158	Oscillating flames in micro-combustion. <i>Combustion and Flame</i> , 2016 , 167, 392-394	5-3	34
157	Kinetics of Oxidation of a Synthetic Jet Fuel in a Jet-Stirred Reactor: Experimental and Modeling Study. <i>Energy & Fuels</i> , 2010 , 24, 4904-4911	4-1	34
156	The oxidation of n-butylbenzene: Experimental study in a JSR at 10atm and detailed chemical kinetic modeling. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 209-216	5-9	34
155	VAPORIZATION AND OXIDATION OF LIQUID FUEL DROPLETS AT HIGH TEMPERATURE AND HIGH PRESSURE: APPLICATION TO N-ALKANES AND VEGETABLE OIL METHYL ESTERS. <i>Combustion Science and Technology</i> , 2004 , 176, 499-529	1-5	34
154	Natural gas and blends oxidation and ignition: Experiments and modeling. <i>Proceedings of the Combustion Institute</i> , 1994 , 25, 1563-1569		34
153	A Kinetic Modeling Study of Propene Oxidation in JSR and Flame. <i>Combustion Science and Technology</i> , 1992 , 83, 167-185	1-5	34
152	Jet-stirred reactor and flame studies of propanal oxidation. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 599-606	5-9	33
151	Experimental and modeling study of the oxidation of n- and iso-butanal. <i>Combustion and Flame</i> , 2013 , 160, 1609-1626	5-3	33
150	Laminar burning velocities of premixed nitromethane/air flames: An experimental and kinetic modeling study. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 703-710	5-9	33
149	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> , 2014 , 161, 2235-2241	5-3	33
148	NO reduction capacity of four major solid fuels in reburning conditions [Experiments and modeling. <i>Fuel</i> , 2008 , 87, 274-289	7-1	33
147	Flash photolysis resonance fluorescence investigation of the gas-phase reactions of hydroxyl radicals with cyclic ethers. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 1881-1883		32

146	Experimental and modeling studies of a biofuel surrogate compound: laminar burning velocities and jet-stirred reactor measurements of anisole. <i>Combustion and Flame</i> , 2018 , 189, 325-336	5.3	32
145	Oxidation of Ethylene and Propene in the Presence of CO ₂ and H ₂ O: Experimental and Detailed Kinetic Modeling Study. <i>Combustion Science and Technology</i> , 2010 , 182, 333-349	1.5	31
144	Chemical Kinetic Study of the Oxidation of Isocetane (2,2,4,4,6,8,8-Heptamethylnonane) in a Jet-stirred Reactor: Experimental and Modeling. <i>Energy & Fuels</i> , 2009 , 23, 2389-2395	4.1	31
143	New insights into the low-temperature oxidation of 2-methylhexane. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 373-382	5.9	30
142	Experimental and Detailed Kinetic Modeling Study of the Oxidation of 1-Propanol in a Pressurized Jet-Stirred Reactor (JSR) and a Combustion Bomb. <i>Energy & Fuels</i> , 2011 , 25, 2013-2021	4.1	30
141	OXIDATION OF 1-METHYLNAPHTHALENE AT 10 ATM: EXPERIMENTAL STUDY IN A JSR AND DETAILED CHEMICAL KINETIC MODELING. <i>Combustion Science and Technology</i> , 2007 , 179, 1261-1285	1.5	30
140	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 & Fuels</i> , 2015 , 29, 1107-1118	4.1	29
139	2-Propanol Oxidation in a Pressurized Jet-Stirred Reactor (JSR) and Combustion Bomb: Experimental and Detailed Kinetic Modeling Study. <i>Energy & Fuels</i> , 2011 , 25, 676-683	4.1	29
138	Influence of EGR compounds on the oxidation of an HCCI-diesel surrogate. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 2851-2859	5.9	29
137	Experimental and kinetic modeling of the reduction of NO by propene at 1 atm. <i>Combustion and Flame</i> , 2000 , 121, 651-661	5.3	29
136	The ignition and oxidation of allene and propyne: Experiments and kinetic modeling. <i>Proceedings of the Combustion Institute</i> , 1996 , 26, 613-620		29
135	Exploring gasoline oxidation chemistry in jet stirred reactors. <i>Fuel</i> , 2019 , 236, 1282-1292	7.1	29
134	An experimental chemical kinetic study of the oxidation of diethyl ether in a jet-stirred reactor and comprehensive modeling. <i>Combustion and Flame</i> , 2018 , 193, 453-462	5.3	28
133	Modeling of the Oxidation of Primary Reference Fuel in the Presence of Oxygenated Octane Improvers: Ethyl Tert-Butyl Ether and Ethanol. <i>Energy & Fuels</i> , 2007 , 21, 3233-3239	4.1	28
132	Elucidating reactivity regimes in cyclopentane oxidation: Jet stirred reactor experiments, computational chemistry, and kinetic modeling. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 469-477	5.9	27
131	Experimental and kinetic modeling study of the reduction of NO by hydrocarbons and interactions with SO ₂ in a JSR at 1atm?. <i>Fuel</i> , 2003 , 82, 1033-1040	7.1	27
130	An experimental and modeling study of 2-methyl-1-butanol oxidation in a jet-stirred reactor. <i>Combustion and Flame</i> , 2014 , 161, 3003-3013	5.3	26
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128	OXIDATION OF m-XYLENE IN A JSR: EXPERIMENTAL STUDY AND DETAILED CHEMICAL KINETIC MODELING. <i>Combustion Science and Technology</i> , 2007 , 179, 813-844	1.5	26
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