

James A Miller

List of Publications by Year in Descending Order

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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.

137
papers

15,726
citations

64
h-index

124
g-index

142
ext. papers

17,352
ext. citations

5.5
avg, IF

6.69
L-index

#	Paper	IF	Citations
137	Combustion chemistry in the twenty-first century: Developing theory-informed chemical kinetics models. <i>Progress in Energy and Combustion Science</i> , 2021 , 83, 100886	33.6	31
136	Comment on "Influence of Multiple Conformations and Paths on Rate Constants and Product Branching Ratios. Thermal Decomposition of 1-Propanol Radicals". <i>Journal of Physical Chemistry A</i> , 2019 , 123, 1129-1130	2.8	1
135	Reference natural gas flames at nominally autoignitive engine-relevant conditions. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 1631-1638	5.9	14
134	Modeling nitrogen chemistry in combustion. <i>Progress in Energy and Combustion Science</i> , 2018 , 67, 31-68	33.6	449
133	Theoretical kinetics of O + C ₂ H ₄ . <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 219-227	5.9	32
132	Initiation Reactions in Acetylene Pyrolysis. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 4203-4217	2.8	14
131	Ramifications of including non-equilibrium effects for HCO in flame chemistry. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 525-532	5.9	26
130	Weakly Bound Free Radicals in Combustion: "Prompt" Dissociation of Formyl Radicals and Its Effect on Laminar Flame Speeds. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 85-9	6.4	47
129	Comment on "When Rate Constants Are Not Enough". <i>Journal of Physical Chemistry A</i> , 2016 , 120, 306-122.8		23
128	Role of Microstructure and Surface Defects on the Dissolution Kinetics of CeO ₂ , a UO ₂ Fuel Analogue. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10562-71	9.5	46
127	Kinetics of Propargyl Radical Dissociation. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 7780-91	2.8	27
126	Adventures on the C ₃ H ₅ O potential energy surface: OH + propyne, OH + allene and related reactions. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 181-188	5.9	30
125	Temperature and Pressure-Dependent Rate Coefficients for the Reaction of Vinyl Radical with Molecular Oxygen. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 7766-79	2.8	74
124	Third-Body Collision efficiencies for combustion modeling: Hydrocarbons in atomic and diatomic baths. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 197-204	5.9	80
123	First-Principles Insight into the Hydration Ability and Proton Conduction of the Solid State Proton Conductor, Y and Sn Co-Doped BaZrO ₃ . <i>Chemistry of Materials</i> , 2015 , 27, 901-908	9.6	56
122	Predictive a priori pressure-dependent kinetics. <i>Science</i> , 2014 , 346, 1212-5	33.3	115
121	First-principles binary diffusion coefficients for H, H ₂ and four normal alkanes + N ₂ . <i>Journal of Chemical Physics</i> , 2014 , 141, 124313	3.9	29

120	Lennard-Jones parameters for combustion and chemical kinetics modeling from full-dimensional intermolecular potentials. <i>Combustion and Flame</i> , 2014 , 161, 101-110	5.3	112
119	Collision efficiency of water in the unimolecular reaction $\text{CH}_4 (+\text{H}_2\text{O}) \rightarrow \text{CH}_3 + \text{H} (+\text{H}_2\text{O})$: one-dimensional and two-dimensional solutions of the low-pressure-limit master equation. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 12243-55	2.8	59
118	Reformulation and solution of the master equation for multiple-well chemical reactions. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 12146-54	2.8	297
117	Unimolecular dissociation of hydroxypropyl and propoxy radicals. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 519-526	5.9	20
116	Determining phenomenological rate coefficients from a time-dependent, multiple-well master equation: "species reduction" at high temperatures. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 4744-48	3.6	53
115	Dissociation of propyl radicals and other reactions on a C_3H_7 potential. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2718-27	2.8	63
114	Comment on "Automatic estimation of pressure-dependent rate coefficients" (J. W. Allen, C. F. Goldsmith, and W. H. Green, <i>Phys. Chem. Chem. Phys.</i> , 2011, 14, 1131-1155). <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8431-3; discussion 8434	3.6	8
113	Theoretical unimolecular kinetics for $\text{CH}_4 + \text{M} \rightarrow \text{CH}_3 + \text{H} + \text{M}$ in eight baths, $\text{M} = \text{He, Ne, Ar, Kr, H}_2, \text{N}_2, \text{CO, and CH}_4$. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 6438-55	2.8	118
112	Pressure-dependent OH yields in alkene + HO_2 reactions: a theoretical study. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 10218-25	2.8	45
111	Combustion chemistry: important features of the C_3H_5 potential energy surface, including allyl radical, propargyl + H_2 , allene + H, and eight transition states. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 14209-14	2.8	21
110	The role of NNH in NO formation and control. <i>Combustion and Flame</i> , 2011 , 158, 774-789	5.3	180
109	Reactions between resonance-stabilized radicals: propargyl + allyl. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 4881-90	2.8	64
108	High-temperature measurements and a theoretical study of the reaction of OH with 1,3-butadiene. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 8312-8	2.8	19
107	The reaction of hydroxyethyl radicals with O_2 : A theoretical analysis and experimental product study. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 271-277	5.9	78
106	Benzene formation in premixed fuel-rich 1,3-butadiene flames. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 623-630	5.9	80
105	Isomer-specific combustion chemistry in allene and propyne flames. <i>Combustion and Flame</i> , 2009 , 156, 2153-2164	5.3	102
104	Kinetics of the gas-phase recombination reaction of hydroxyl radicals to form hydrogen peroxide. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 4457-67	2.8	34
103	Collisional energy transfer in unimolecular reactions: direct classical trajectories for $\text{CH}_4 + \text{CH}_3 + \text{H}$ in helium. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 5612-9	2.8	77

102	Detailed balance in multiple-well chemical reactions. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 1128-37	3.6	38
101	The reaction between propene and hydroxyl. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 11040-53	3.6	121
100	Formally direct pathways and low-temperature chain branching in hydrocarbon autoignition: the cyclohexyl + O ₂ reaction at high pressure. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 1320-7	3.6	65
99	Kinetics of CH + N ₂ revisited with multireference methods. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 522-32	2.8	59
98	Reactions over multiple, interconnected potential wells: unimolecular and bimolecular reactions on a C ₃ H ₅ potential. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 9429-38	2.8	66
97	The temperature and pressure dependence of the reactions H + O ₂ (+M) → HO ₂ (+M) and H + OH (+M) → H ₂ O (+M). <i>Journal of Physical Chemistry A</i> , 2008 , 112, 5085-95	2.8	60
96	Association rate constants for reactions between resonance-stabilized radicals: C ₃ H ₃ + C ₃ H ₃ , C ₃ H ₃ + C ₃ H ₅ , and C ₃ H ₅ + C ₃ H ₅ . <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 4259-68	3.6	121
95	The reaction of n- and i-C ₄ H ₅ radicals with acetylene. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 3740-7	2.8	73
94	Oxidation pathways in the reaction of diacetylene with OH radicals. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 185-192	5.9	17
93	Photoionization mass spectrometric studies and modeling of fuel-rich allene and propyne flames. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 1157-1164	5.9	58
92	Secondary decomposition of C ₃ H ₅ radicals formed by the photodissociation of 2-bromopropene. <i>Journal of Chemical Physics</i> , 2007 , 127, 144301	3.9	6
91	Combustion chemistry of enols: possible ethenol precursors in flames. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 3254-60	2.8	89
90	Identification and chemistry of C ₄ H ₃ and C ₄ H ₅ isomers in fuel-rich flames. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 3670-8	2.8	137
89	Reaction of ethylene with hydroxyl radicals: a theoretical study. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 6960-70	2.8	137
88	Master equation methods in gas phase chemical kinetics. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 10528-44	28.4	325
87	Identification of C ₅ H _x isomers in fuel-rich flames by photoionization mass spectrometry and electronic structure calculations. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 4376-88	2.8	112
86	Pathways and rate coefficients for the decomposition of vinoxy and acetyl radicals. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 5772-81	2.8	69
85	Modeling the kinetics of bimolecular reactions. <i>Chemical Reviews</i> , 2006 , 106, 4518-84	68.1	464

84	Enols are common intermediates in hydrocarbon oxidation. <i>Science</i> , 2005 , 308, 1887-9	33.3	277
83	Synchrotron photoionization measurements of combustion intermediates: photoionization efficiency and identification of C ₃ H ₂ isomers. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 806-13	3.6	107
82	The addition of hydrogen atoms to diacetylene and the heats of formation of i-C ₄ H ₃ and n-C ₄ H ₃ . <i>Journal of Physical Chemistry A</i> , 2005 , 109, 4285-95	2.8	57
81	The reaction of acetylene with hydroxyl radicals. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 6045-55	2.8	79
80	Snow Mass over North America: Observations and Results from the Second Phase of the Atmospheric Model Intercomparison Project. <i>Journal of Hydrometeorology</i> , 2005 , 6, 681-695	3.7	40
79	Unravelling combustion mechanisms through a quantitative understanding of elementary reactions. <i>Proceedings of the Combustion Institute</i> , 2005 , 30, 43-88	5.9	369
78	A complete statistical analysis of the reaction between OH and CO. <i>Proceedings of the Combustion Institute</i> , 2005 , 30, 945-953	5.9	34
77	The H + C ₂ H ₂ (+M) ? C ₂ H ₃ (+M) and H + C ₂ H ₂ (+M) ? C ₂ H ₅ (+M) reactions: Electronic structure, variational transition-state theory, and solutions to a two-dimensional master equation. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 1192-1202	3.6	121
76	Some Observations Concerning Detailed Balance in Association/Dissociation Reactions. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 8296-8306	2.8	23
75	A kinetic issue in reburning: the fate of HCNO. <i>Combustion and Flame</i> , 2003 , 135, 357-362	5.3	50
74	Improved simulations of snow extent in the second phase of the Atmospheric Model Intercomparison Project (AMIP-2). <i>Journal of Geophysical Research</i> , 2003 , 108,		69
73	Measurements, Theory, and Modeling of OH Formation in Ethyl + O ₂ and Propyl + O ₂ Reactions. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 4415-4427	2.8	144
72	From the Multiple-Well Master Equation to Phenomenological Rate Coefficients: Reactions on a C ₃ H ₄ Potential Energy Surface. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 2680-2692	2.8	191
71	The Recombination of Propargyl Radicals and Other Reactions on a C ₆ H ₆ Potential. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 7783-7799	2.8	315
70	Resolving the mystery of prompt CO ₂ : The HCCO+O ₂ reaction. <i>Proceedings of the Combustion Institute</i> , 2002 , 29, 1209-1217	5.9	47
69	From the Time-Dependent, Multiple-Well Master Equation to Phenomenological Rate Coefficients. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 9267-9277	2.8	150
68	Solution of Some One- and Two-Dimensional Master Equation Models for Thermal Dissociation: The Dissociation of Methane in the Low-Pressure Limit. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 4904-4913	2.8	115
67	The reaction between ethyl and molecular oxygen II: Further analysis. <i>International Journal of Chemical Kinetics</i> , 2001 , 33, 654-668	1.4	111

66	Infrared frequency-modulation probing of product formation in alkyl + O ₂ reactions. Part IV. Reactions of propyl and butyl radicals with O ₂ . <i>Faraday Discussions</i> , 2001 , 101-20; discussion 121-43	3.6	80
65	The Recombination of Propargyl Radicals: Solving the Master Equation. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 7254-7266	2.8	110
64	A theoretical analysis of the reaction between propargyl and molecular oxygen. <i>Faraday Discussions</i> , 2001 , 79-100; discussion 121-43	3.6	80
63	A direct transition state theory based analysis of the branching in NH ₂ + NO. <i>Faraday Discussions</i> , 2001 , 207-22; discussion 255-74	3.6	20
62	Exploring old and new benzene formation pathways in low-pressure premixed flames of aliphatic fuels. <i>Proceedings of the Combustion Institute</i> , 2000 , 28, 1519-1527	5.9	125
61	A theoretical analysis of the reaction between ethyl and molecular oxygen. <i>Proceedings of the Combustion Institute</i> , 2000 , 28, 1479-1486	5.9	94
60	A Theoretical Analysis of the Reaction between Vinyl and Acetylene: Quantum Chemistry and Solution of the Master Equation. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 7525-7536	2.8	82
59	Theoretical Considerations in the NH ₂ + NO Reaction. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 2061-2069	6.9	63
58	Angular momentum conservation in the O + OH \leftrightarrow O ₂ + H reaction. <i>International Journal of Chemical Kinetics</i> , 1999 , 31, 753-756	1.4	17
57	Inhibitory effects of chlorophyllin on micronucleus formation induced by ethyl carbamate and its proximate and ultimate carcinogenic forms in mouse peripheral reticulocytes. <i>Environmental and Molecular Mutagenesis</i> , 1999 , 34, 57-60	3.2	7
56	Kinetic Modeling of Hydrocarbon/Nitric Oxide Interactions in a Flow Reactor. <i>Combustion and Flame</i> , 1998 , 115, 1-27	5.3	417
55	The CH ₃ +NO rate coefficient at high temperatures: Theoretical analysis and comparison with experiment. <i>International Journal of Chemical Kinetics</i> , 1998 , 30, 223-228	1.4	19
54	The recombination of hydrogen atoms with nitric oxide at high temperatures. <i>Proceedings of the Combustion Institute</i> , 1998 , 27, 219-226		29
53	Some chemical kinetics issues in reburning: The branching fraction of the HCCO+NO reaction. <i>Proceedings of the Combustion Institute</i> , 1998 , 27, 235-243		22
52	Branching Fraction of the NH ₂ + NO Reaction between 1210 and 1370 K. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 3741-3745	2.8	39
51	Prompt NO: Theoretical prediction of the high-temperature rate coefficient for CH + N ₂ \rightarrow HCN + N. <i>International Journal of Chemical Kinetics</i> , 1997 , 29, 253-259	1.4	40
50	Quantifying the non-RRKM effect in the H + O ₂ \rightarrow OH + O reaction. <i>International Journal of Chemical Kinetics</i> , 1997 , 29, 275-287	1.4	49
49	An exploratory investigation of the use of alkali metals in nitrous oxide control. <i>International Journal of Chemical Kinetics</i> , 1996 , 28, 217-234	1.4	34

48	The effect of allene addition on the structure of a rich C ₂ H ₂ /O ₂ /Ar flame. <i>Combustion and Flame</i> , 1996 , 105, 451-461	5.3	58
47	Pressure effects on the thermal de-NO _x process. <i>Proceedings of the Combustion Institute</i> , 1996 , 26, 2067-2074		15
46	Theory and modeling in combustion chemistry. <i>Proceedings of the Combustion Institute</i> , 1996 , 26, 461-480		93
45	The Oxidation of Allene in a Low-Pressure H ₂ / O ₂ / Ar-C ₃ H ₄ Flame. <i>Combustion Science and Technology</i> , 1995 , 110-111, 249-276	1.5	40
44	The reaction of ammonia with nitrogen dioxide in a flow reactor: Implications for the NH ₂ + NO ₂ reaction. <i>International Journal of Chemical Kinetics</i> , 1995 , 27, 1207-1220	1.4	92
43	Research in chemical carcinogenesis with Elizabeth Miller--a trail of discovery with our associates. <i>Drug Metabolism Reviews</i> , 1994 , 26, 1-36	7	30
42	Modeling the thermal DENO _x process in flow reactors. Surface effects and Nitrous Oxide formation. <i>International Journal of Chemical Kinetics</i> , 1994 , 26, 421-436	1.4	130
41	Mechanism and modeling of hydrogen cyanide oxidation in a flow reactor. <i>Combustion and Flame</i> , 1994 , 99, 475-483	5.3	75
40	Rich methane/air flames: Burning velocities, extinction limits, and flammability limit. <i>Proceedings of the Combustion Institute</i> , 1994 , 25, 1309-1315		7
39	Unimolecular reaction mechanisms involving C ₃ H ₄ , C ₄ H ₄ , and C ₆ H ₆ hydrocarbon species. <i>Proceedings of the Combustion Institute</i> , 1992 , 24, 621-628		58
38	The reactions of imidogen with nitric oxide and molecular oxygen. <i>Proceedings of the Combustion Institute</i> , 1992 , 24, 719-726		29
37	Kinetic and thermodynamic issues in the formation of aromatic compounds in flames of aliphatic fuels. <i>Combustion and Flame</i> , 1992 , 91, 21-39	5.3	73 ⁸
36	A theoretical analysis of the reaction between hydrogen atoms and isocyanic acid. <i>International Journal of Chemical Kinetics</i> , 1992 , 24, 421-432	1.4	19
35	The need for epidemiological studies of the medical exposures of Japanese patients to the carcinogen ethyl carbamate (urethane) from 1950 to 1975. <i>Japanese Journal of Cancer Research</i> , 1991 , 82, 1323-4		17
34	Kinetic modeling of the reduction of nitric oxide in combustion products by isocyanic acid. <i>International Journal of Chemical Kinetics</i> , 1991 , 23, 289-313	1.4	146
33	The structure and reaction mechanism of rich, non-sooting C ₂ H ₂ /O ₂ /Ar flames. <i>Proceedings of the Combustion Institute</i> , 1991 , 23, 187-194		13
32	Mechanism and modeling of nitrogen chemistry in combustion. <i>Progress in Energy and Combustion Science</i> , 1989 , 15, 287-338	33.6	2243
31	A computational model of the structure and extinction of strained, opposed flow, premixed methane-air flames. <i>Proceedings of the Combustion Institute</i> , 1989 , 22, 1479-1494		317

30	A theoretical analysis of the reaction between hydroxyl and hydrogen cyanide at high temperature. <i>Proceedings of the Combustion Institute</i> , 1988 , 21, 919-927		9
29	Hydrocarbon/nitric oxide interactions in low-pressure flames. <i>Proceedings of the Combustion Institute</i> , 1988 , 21, 965-977		23
28	A hybrid Newton/time-integration procedure for the solution of steady, laminar, one-dimensional, premixed flames. <i>Proceedings of the Combustion Institute</i> , 1988 , 21, 1773-1782		64
27	Kinetics of the reaction between oxygen atoms and ethyl radicals. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1988 , 84, 491-503		53
26	Methyl isocyanide isomerization. Determination of collisional deactivation parameters following carbon-hydrogen overtone excitation. <i>The Journal of Physical Chemistry</i> , 1986 , 90, 3544-3549		17
25	A statistical-theoretical investigation of the thermal rate coefficient and branching ratio for the reaction atomic oxygen + hydrogen cyanide. <i>The Journal of Physical Chemistry</i> , 1986 , 90, 3339-3345		43
24	Kinetic modeling and sensitivity analysis of nitrogen oxide formation in well-stirred reactors. <i>Combustion and Flame</i> , 1986 , 65, 177-202	5.3	328
23	A theoretical analysis of the overtone-induced isomerization of methyl isocyanide. <i>Journal of Chemical Physics</i> , 1986 , 85, 4502-4508	3.9	25
22	A Mathematical Model of Silicon Chemical Vapor Deposition: Further Refinements and the Effects of Thermal Diffusion. <i>Journal of the Electrochemical Society</i> , 1986 , 133, 1206-1213	3.9	244
21	Nonstatistical effects and detailed balance in quasiclassical trajectory calculations of the thermal rate coefficient for $O+OH \rightarrow O_2+H$. <i>Journal of Chemical Physics</i> , 1986 , 84, 6170-6177	3.9	82
20	The conversion of HCN to NO and N ₂ in H ₂ O ₂ /HCN/Ar flames at low pressure. <i>Proceedings of the Combustion Institute</i> , 1985 , 20, 673-684		51
19	Solution of Premixed and Counterflow Diffusion Flame Problems by Adaptive Boundary Value Methods 1985 , 303-317		16
18	Collisional energy transfer in the low-pressure-limit unimolecular dissociation of HO ₂ . <i>Journal of Chemical Physics</i> , 1984 , 80, 5568-5580	3.9	129
17	Computational modeling of flame structure. <i>Physica D: Nonlinear Phenomena</i> , 1984 , 12, 198-211	3.3	8
16	A Mathematical Model of the Coupled Fluid Mechanics and Chemical Kinetics in a Chemical Vapor Deposition Reactor. <i>Journal of the Electrochemical Society</i> , 1984 , 131, 425-434	3.9	296
15	A theoretical analysis of photoactivated unimolecular dissociation: The overtone dissociation of t-butyl hydroperoxide. <i>Journal of Chemical Physics</i> , 1984 , 81, 455-464	3.9	20
14	Determination of Adiabatic Flame Speeds by Boundary Value Methods. <i>Combustion Science and Technology</i> , 1983 , 34, 79-90	1.5	100
13	Kinetic Modeling of the Oxidation of Ammonia in Flames. <i>Combustion Science and Technology</i> , 1983 , 34, 149-176	1.5	201

12	Dynamics of the unimolecular dissociation of hydroperoxo. Phase space coupling, microcanonical rate coefficients, and rotational effects. <i>The Journal of Physical Chemistry</i> , 1982 , 86, 772-784		35
11	A Theoretical Investigation of Mixing Effects in the Selective Reduction of Nitric Oxide by Ammonia. <i>Combustion Science and Technology</i> , 1982 , 29, 147-165	1.5	33
10	Toward a comprehensive chemical kinetic mechanism for the oxidation of acetylene: Comparison of model predictions with results from flame and shock tube experiments. <i>Proceedings of the Combustion Institute</i> , 1982 , 19, 181-196		90
9	Collision dynamics and the thermal rate coefficient for the reaction $H+O_2 \rightarrow OH+O$. <i>Journal of Chemical Physics</i> , 1981 , 74, 5120-5132	3.9	97
8	Mechanisms of chemical carcinogenesis. <i>Cancer</i> , 1981 , 47, 1055-64	6.4	274
7	Searches for ultimate chemical carcinogens and their reactions with cellular macromolecules. <i>Cancer</i> , 1981 , 47, 2327-45	6.4	704
6	The measurement of relative concentration profiles of NH_2 using laser absorption spectroscopy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1981 , 26, 313-327	2.1	28
5	Kinetic isotope effects: Theoretical prediction of the thermal rate coefficient for the reaction $D+O_2 \rightarrow OD+O$. <i>Journal of Chemical Physics</i> , 1981 , 75, 5349-5354	3.9	21
4	Comparative carcinogenicities and reactivities of N-myristoyloxy-N-acetyl-2-aminofluorene and its 7-iodo derivative. <i>Carcinogenesis</i> , 1981 , 2, 655-9	4.6	2
3	Chemical nonequilibrium effects in hydrogen-air laminar jet diffusion flames. <i>The Journal of Physical Chemistry</i> , 1977 , 81, 2534-2542		58
2	Synthesis of the hepatocarcinogen N-methyl-4-aminoazobenzene with tritium in the prime ring. <i>Journal of Labelled Compounds</i> , 1969 , 5, 257-260		3
1	The carcinogenic aminoazo dyes. <i>Advances in Cancer Research</i> , 1953 , 1, 339-96	5.9	230