

Akira Miyoshi

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.

75
papers

2,123
citations

26
h-index

44
g-index

76
ext. papers

2,310
ext. citations

3.6
avg, IF

5.11
L-index

#	Paper	IF	Citations
75	Measurements and simulations of ignition delay times and laminar flame speeds of nonane isomers. <i>Combustion and Flame</i> , 2021 , 227, 283-295	5.3	1
74	Development of Surface Reaction Mechanisms of CO / O ₂ on Pt and Rh for Three Way Catalyst based on Gas Phase and Surface Species Analyses. <i>Combustion Science and Technology</i> , 2020 , 1-21	1.5	1
73	Development of Detailed Surface Reaction Mechanism of C ₂ H ₄ /C ₃ H ₆ Oxidation on Pt/Al ₂ O ₃ Monolith Catalyst Based on Gas Phase and Surface Species Analyses. <i>Combustion Science and Technology</i> , 2020 , 1-23	1.5	0
72	Deflagration-to-detonation transition in laser-ignited explosive gas contained in a smooth-wall tube. <i>Combustion and Flame</i> , 2020 , 219, 275-282	5.3	
71	Improving the synthetic efficiency of single-wall carbon nanotube forests using a gas-analysis-designed mixed carbon feedstock. <i>Carbon</i> , 2020 , 170, 59-65	10.4	3
70	Kinetics of autoignition: a simple intuitive interpretation and its relation to the Livengood-Wu integral. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 10762-10769	3.6	11
69	Experimental study on self-acceleration in expanding spherical hydrogen-air flames. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 12556-12564	6.7	31
68	Chemical Kinetic Analysis on the Effect of the Occurrence of Cool Flame on SI Knock. <i>International Journal of Automotive Engineering</i> , 2017 , 8, 130-136	0.3	3
67	Reduced Chemical Kinetic Mechanism for the Prediction of Ignition Delay Time and Laminar Flame Velocity of Natural Gas Combustion. <i>The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines</i> , 2017 , 2017.9, A306		
66	Experimental and theoretical study on the thermal decomposition of C ₃ H ₆ (propene). <i>Journal of Physical Chemistry A</i> , 2015 , 119, 1229-37	2.8	11
65	Yield of Formyl Radical from the Vinyl + O ₂ Reaction. <i>International Journal of Chemical Kinetics</i> , 2014 , 46, 260-274	1.4	9
64	Burning velocities and kinetics of H ₂ /NF ₃ /N ₂ , CH ₄ /NF ₃ /N ₂ , and C ₃ H ₈ /NF ₃ /N ₂ flames. <i>Combustion and Flame</i> , 2014 , 161, 1425-1431	5.3	7
63	Modeling of two- and three-ring aromatics formation in the pyrolysis of toluene. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 269-277	5.9	66
62	Chain reaction mechanism in hydrogen/fluorine combustion. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 14042-7	2.8	2
61	Development of Gasoline Combustion Reaction Model 2013 ,		5
60	Kinetics of the self-reactions of benzyl and o-xyllyl radicals studied by cavity ring-down spectroscopy. <i>Chemical Physics Letters</i> , 2012 , 521, 26-30	2.5	10
59	Molecular size dependent falloff rate constants for the recombination reactions of alkyl radicals with O ₂ and implications for simplified kinetics of alkylperoxy radicals. <i>International Journal of Chemical Kinetics</i> , 2012 , 44, 59-74	1.4	62

58	Computational study on the recombination reaction between benzyl and propargyl radicals. <i>International Journal of Chemical Kinetics</i> , 2012 , 44, 206-218	1.4	48
57	Reactions of o-benzyne with propargyl and benzyl radicals: potential sources of polycyclic aromatic hydrocarbons in combustion. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 9722-8	3.6	22
56	Electronic spectra of the jet-cooled 1-methylvinylthio radical. <i>Journal of Chemical Physics</i> , 2012 , 136, 184311	3.9	1
55	OS3-1 KUCRS - Detailed Kinetic Mechanism Generator for Versatile Fuel Components and Mixtures(OS3 Application of chemical kinetics to combustion modeling,Organized Session Papers). <i>The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Turbines</i> , 2012 , 11, 1-10		3
54	Systematic computational study on the unimolecular reactions of alkylperoxy (RO ₂), hydroperoxyalkyl (QOOH), and hydroperoxyalkylperoxy (O ₂ QOOH) radicals. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 3301-25	2.8	158
53	Kinetic study on gas phase zinc reduction of silicon tetrachloride. <i>Chemical Engineering Journal</i> , 2011 , 168, 889-895	14.7	13
52	Deuterium kinetic isotope effects on the gas-phase reactions of C ₂ H with H ₂ (D ₂) and CH ₄ (CD ₄). <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 4022-31	3.6	8
51	Kinetics and mechanisms of the allyl + allyl and allyl + propargyl recombination reactions. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 7610-24	2.8	31
50	Decomposition of Ethanol and Dimethyl Ether during Chemical Vapor Deposition Synthesis of Single-Walled Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 065101	1.4	18
49	Rate constants and kinetic isotope effects on the reaction of C ₂ (X(1)Sigma(g)+) with CH ₄ and CD ₄ . <i>Journal of Physical Chemistry A</i> , 2010 , 114, 4580-5	2.8	5
48	Computational studies on the reactions of 3-butenyl and 3-butenylperoxy radicals. <i>International Journal of Chemical Kinetics</i> , 2010 , 42, 273-288	1.4	43
47	Role of methyl radicals in the growth of PAHs. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 534-44	3.5	79
46	Gas-phase spectroscopy of the 2 3Sigma(-)-X 3Sigma- electronic transition of CCS. <i>Journal of Chemical Physics</i> , 2009 , 130, 014302	3.9	2
45	A kinetic modeling study on the oxidation of primary reference fuel/boluene mixtures including cross reactions between aromatics and aliphatics. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 411-418	5.9	82
44	Mechanism and kinetic isotope effect of the reaction of C ₂ (X1Sigma(g)+) radicals with H ₂ and D ₂ . <i>Journal of Physical Chemistry A</i> , 2009 , 113, 8963-70	2.8	8
43	Product branching fractions for the reaction of O((3)P) with ethene. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 7318-23	3.6	14
42	Role of phenyl radicals in the growth of polycyclic aromatic hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 2362-9	2.8	96
41	Development of pore size-controlled silica membranes for gas separation by chemical vapor deposition. <i>Journal of Membrane Science</i> , 2008 , 315, 93-99	9.6	70

40	Rate coefficients of H-atom abstraction from ethers and isomerization of alkoxyalkylperoxy radicals. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 5133-42	3.6	68
39	Chemical Kinetic Mechanism for High Temperature Oxidation of Butane Isomers. <i>Energy & Fuels</i> , 2007 , 21, 130-135	4.1	32
38	In situ direct sampling mass spectrometric study on formation of polycyclic aromatic hydrocarbons in toluene pyrolysis. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 8308-24	2.8	66
37	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
36	Effects of Toluene Addition to Primary Reference Fuel at High Temperature 2007 ,		22
35	Laser-induced fluorescence and pure rotational spectroscopy of the CH ₂ CHS (vinylthio) radical. <i>Journal of Chemical Physics</i> , 2007 , 126, 044307	3.9	6
34	High-temperature reactions of OH radicals with benzene and toluene. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 5081-90	2.8	106
33	Rate constants for the reactions of a series of alkylperoxy radicals with NO. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 4095-101	2.8	4
32	Development of a technique for high-temperature chemical kinetics: Shock tube/pulsed laser-induced fluorescence imaging method. <i>Review of Scientific Instruments</i> , 2005 , 76, 064103	1.7	7
31	Mechanism of the Reactions of Butenes with O(3P): The Yields of CH ₃ and C ₂ H ₅ . <i>Journal of Physical Chemistry A</i> , 2004 , 108, 1409-1416	2.8	12
30	Reactions of Methyl- and Ethylperoxy Radicals with NO Studied by Time-Resolved Negative Ionization Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 10458-10463	2.8	9
29	Direct investigations on the thermal unimolecular isomerization reaction of 1-pentyl radicals. <i>Proceedings of the Combustion Institute</i> , 2002 , 29, 1285-1293	5.9	20
28	Reaction rates of O(3P) atom with fluoroethanes at 1000–400 K. <i>Chemical Physics Letters</i> , 2001 , 336, 242-247	2.5	6
27	Kinetic Study on Reactions of 1- and 2-Methylvinoxy Radicals with O ₂ . <i>Journal of Physical Chemistry A</i> , 2001 , 105, 378-382	2.8	29
26	Determination of the Equilibrium Constant and Thermodynamic Parameters for the Reaction of Pentadienyl Radicals with O ₂ . <i>Journal of Physical Chemistry A</i> , 2001 , 105, 1277-1282	2.8	14
25	Direct Study on the Unimolecular Decomposition of Methoxy Radicals: The Role of the Tunneling Effect. <i>Bulletin of the Chemical Society of Japan</i> , 2000 , 73, 53-60	5.1	15
24	Two-Channel Thermal Unimolecular Decomposition of Alkyl Iodides. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 46-53	2.8	18
23	Photolysis of Disilane at 193 nm. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 322-329	2.8	15

22	Thermal Decomposition and Isomerization Processes of Alkyl Radicals. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 2723-2733	2.8	94
21	Investigation on the Insertion Channel in the S(3P) + H ₂ Reaction. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 3556-3559	2.8	32
20	Laser-induced fluorescence of radicals produced in reactions of halogenated ethylenes with atomic oxygen. <i>Journal of Chemical Physics</i> , 1997 , 107, 6998-7000	3.9	8
19	Site-Specific Branching Fractions for the O(3P) and OH + C ₃ H ₈ Reactions. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 4893-4899		17
18	Studies on the Reactions of Atomic Sulfur (3P) with H ₂ , D ₂ , CH ₄ , C ₂ H ₆ , C ₃ H ₈ , n-C ₄ H ₁₀ , and i-C ₄ H ₁₀ . <i>The Journal of Physical Chemistry</i> , 1996 , 100, 17202-17206		23
17	Kinetics and mechanism of the reaction of S(3P) with O ₂ . <i>Proceedings of the Combustion Institute</i> , 1996 , 26, 535-541		6
16	Kinetic Studies on the Pyrolysis of H ₂ S. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 2136-2140		63
15	Reaction of NH(a ¹ .DELTA.) with SiH ₄ : Comparison with CH ₄ and C ₃ H ₈ . <i>The Journal of Physical Chemistry</i> , 1995 , 99, 1466-1469		6
14	Studies on the Reactions of Atomic Oxygen(3P) with C ₂ -C ₆ Alkanes at High Temperatures: Examination of the Transition State Theory 1995 , 131-136		
13	Detection and reactions of the HOCO radical in gas phase. <i>Journal of Chemical Physics</i> , 1994 , 100, 3532-3539		70
12	OH radical- initiated photooxidation of isoprene: An estimate of global CO production. <i>Journal of Geophysical Research</i> , 1994 , 99, 18779		125
11	Reactions of Atomic Oxygen (3P) with Selected Alkanes. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 11452-11458		58
10	Product branching fractions in the reactions of NH(a ¹) and NH(X ³) with NO. <i>Journal of Chemical Physics</i> , 1994 , 101, 9582-9588	3.9	17
9	Reaction rates of atomic oxygen with straight chain alkanes and fluoromethanes at high temperatures. <i>Chemical Physics Letters</i> , 1993 , 204, 241-247	2.5	29
8	Kinetics of the silyl + oxygen reaction studied by time-resolved mass spectrometry. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 9869-9873		37
7	Rate constant and mechanism of the SiH ₃ +SiH ₃ reaction. <i>Chemical Physics Letters</i> , 1991 , 184, 442-447	2.5	14
6	Rates of reaction of hydroxyalkyl radicals with molecular oxygen. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 3016-3019		60
5	Studies on the reaction of acetaldehyde and acetyl radicals with atomic hydrogen. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 3253-3255		24

- 4 Reactions of hydroxyethyl radicals with oxygen and nitric oxide. *Chemical Physics Letters*, **1989**, 160, 291-294 23
- 3 Reaction of acetaldehyde and acetyl radical with atomic and molecular oxygen. *The Journal of Physical Chemistry*, **1989**, 93, 5813-5818 15
- 2 Formation of contact ion-pair and dissociated ion-radicals by electron transfer from excited amine to oxygen molecules. *Chemical Physics Letters*, **1972**, 15, 223-225 2.5 9
- 1 SI Combustion Characteristics of Cyclopentane - Detailed Kinetic Mechanism 1