

Yutaka Matsumi

List of Publications by Year in descending order

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202
papers

5,106
citations

81743

39
h-index

155451

55
g-index

210
all docs

210
docs citations

210
times ranked

4611
citing authors

#	ARTICLE	IF	CITATIONS
1	Photolysis of Atmospheric Ozone in the Ultraviolet Region. <i>Chemical Reviews</i> , 2003, 103, 4767-4782.	23.0	153
2	Laboratory studies on optical properties of secondary organic aerosols generated during the photooxidation of toluene and the ozonolysis of α -pinene. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	130
3	Wavelength and NO_x -dependent complex refractive index of SOAs generated from the photooxidation of toluene. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 531-545.	1.9	129
4	Ion Imaging of the Photodissociation of OCS Near 217 and 230 nm. <i>The Journal of Physical Chemistry</i> , 1995, 99, 16307-16314.	2.9	114
5	ATMOSPHERIC CHEMISTRY: Photochemistry of Ozone: Surprises and Recent Lessons. <i>Science</i> , 1998, 280, 60-61.	6.0	103
6	Quantum yields for production of O(1D) in the ultraviolet photolysis of ozone: Recommendation based on evaluation of laboratory data. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 1-1.	3.3	99
7	Spectroscopic measurements of tropospheric CO, C ₂ H ₆ , C ₂ H ₂ , and HCN in northern Japan. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 2-1.	3.3	95
8	Fine-structure branching ratios and Doppler profiles of Cl(2P _j) photofragments from photodissociation of the chlorine molecule near and in the ultraviolet region. <i>Journal of Chemical Physics</i> , 1992, 97, 1065-1071.	1.2	92
9	PM _{2.5} diminution and haze events over Delhi during the COVID-19 lockdown period: an interplay between the baseline pollution and meteorology. <i>Scientific Reports</i> , 2020, 10, 13442.	1.6	75
10	Isotopic branching ratios and translational energy release of hydrogen and deuterium atoms in reaction of oxygen (1D) atoms with alkanes and alkyl chlorides. <i>The Journal of Physical Chemistry</i> , 1993, 97, 6816-6821.	2.9	72
11	Characterization of a Three Wavelength Photoacoustic Soot Spectrometer (PASS-3) and a Photoacoustic Extinctiometer (PAX). <i>Journal of the Meteorological Society of Japan</i> , 2015, 93, 285-308.	0.7	68
12	Dynamics of the reactions of O(1D) with HCl, DCl, and Cl ₂ . <i>Journal of Chemical Physics</i> , 1993, 98, 8330-8336.	1.2	65
13	Mechanism of the ultraviolet photodissociation of chloroethylenes determined from the Doppler profiles, spatial anisotropy, and power dependence of the photofragments. <i>Journal of Chemical Physics</i> , 1992, 97, 4815-4826.	1.2	64
14	Emission spectra of SiH(A ² Σ^+) and SiCl ₂ (A ¹ Σ^+) in the VUV photolyses of silane and chlorinated silanes. <i>Journal of Chemical Physics</i> , 1985, 83, 2769-2774.	1.2	62
15	Formation of O(3P _j) photofragments from the Hartley band photodissociation of ozone at 226 nm. <i>Journal of Chemical Physics</i> , 1990, 93, 3289-3294.	1.2	60
16	Fine structure branching ratios and Doppler spectroscopy of chlorine atoms from the photodissociation of alkyl chlorides and chlorofluoromethanes at 157 and 193 nm. <i>Journal of Chemical Physics</i> , 1991, 94, 2669-2674.	1.2	59
17	Size-dependent correction factors for absorption measurements using filter-based photometers: PSAP and COSMOS. <i>Journal of Aerosol Science</i> , 2010, 41, 333-343.	1.8	57
18	Properties of light-absorbing aerosols in the Nagoya urban area, Japan, in August 2011 and January 2012: Contributions of brown carbon and lensing effect. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,721.	1.2	57

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19	Laser-induced fluorescence study of silicon etching process: Detection of SiF ₂ and CF ₂ radicals. Journal of Applied Physics, 1986, 60, 4102-4108.	1.1	55
20	Light absorption and morphological properties of soot-containing aerosols observed at an East Asian outflow site, Noto Peninsula, Japan. Atmospheric Chemistry and Physics, 2016, 16, 2525-2541.	1.9	54
21	Velocity relaxation of hot O(1D) atoms by collisions with rare gases, N ₂ , and O ₂ . Journal of Chemical Physics, 1994, 101, 9610-9618.	1.2	53
22	Photodissociation of hydrogen chloride at 157 and 193 nm: Angular distributions of hydrogen atoms and fine structure branching ratios of chlorine atoms in the 2P _j levels. Journal of Chemical Physics, 1992, 97, 8210-8215.	1.2	50
23	Translational relaxation and electronic quenching of hot O(1D) by collisions with N ₂ . Journal of Chemical Physics, 1996, 104, 7036-7044.	1.2	50
24	Observation of the spin-forbidden O(1D)+O ₂ (X ³ Σ ⁻) channel in the 317-327 nm photolysis of ozone. Journal of Chemical Physics, 1996, 105, 5290-5293.	1.2	50
25	Determination of the heat of formation of O ₃ using vacuum ultraviolet laser-induced fluorescence spectroscopy and two-dimensional product imaging techniques. Journal of Chemical Physics, 1999, 111, 6350-6355.	1.2	50
26	Development and evaluation of a palm-sized optical PM _{2.5} sensor. Aerosol Science and Technology, 2018, 52, 2-12.	1.5	49
27	Photodissociation Processes of Ozone in the Huggins Band at 308-326 nm: A Direct Observation of O(1D ₂) and O(3P _j) Products. The Journal of Physical Chemistry, 1996, 100, 4084-4089.	2.9	48
28	The exposure of children to PM _{2.5} and dust in indoor and outdoor school classrooms in Kuala Lumpur City Centre. Ecotoxicology and Environmental Safety, 2019, 170, 739-749.	2.9	48
29	Wavelength and temperature dependence of the absolute O(1D) production yield from the 305-329 nm photodissociation of ozone. Journal of Chemical Physics, 1998, 108, 7161-7172.	1.2	47
30	Dynamics of the reaction oxygen atom (1D) + hydrogen deuteride, hydrogen, and deuterium: isotopic branching ratios and translational energy release. The Journal of Physical Chemistry, 1992, 96, 10622-10626.	2.9	46
31	Photofragment excitation spectrum for O(1D) from the photodissociation of jet-cooled ozone in the wavelength range 305-329 nm. Journal of Chemical Physics, 1997, 106, 6390-6397.	1.2	46
32	The ultraviolet photodissociation of Cl ₂ O at 235 nm and of HOCl at 235 and 266 nm. Journal of Chemical Physics, 1998, 109, 1315-1323.	1.2	45
33	Atmospheric chemistry of C _x F _{2x+1} CHCH ₂ (x=1, 2, 4, 6, and 8): Kinetics of gas-phase reactions with Cl atoms, OH radicals, and O ₃ . Journal of Photochemistry and Photobiology A: Chemistry, 2005, 176, 124-128.	2.0	45
34	The Doppler spectra of O(1D) from the photodissociation of O ₂ , NO ₂ , and N ₂ O. Journal of Chemical Physics, 1991, 95, 6218-6223.	1.2	44
35	Reaction and Quenching of Cl(2P _j) Atoms in Collisions with Methane and Deuterated Methanes. Journal of Physical Chemistry A, 1997, 101, 1216-1221.	1.1	44
36	Effect of molecular bending on the photodissociation of OCS. Journal of Chemical Physics, 2000, 112, 7095-7101.	1.2	44

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37	Photodissociation of hydrogen chloride and hydrogen bromide. <i>Journal of Chemical Physics</i> , 1990, 93, 7981-7985.	1.2	41
38	Kinetics of the Reactions of Cl(2P _{1/2}) and Cl(2P _{3/2}) Atoms with C ₂ H ₆ , C ₂ D ₆ , CH ₃ F, C ₂ H ₅ F, and CH ₃ CF ₃ at 298 K. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5131-5136.	1.1	41
39	Characterizing PM _{2.5} in Hanoi with New High Temporal Resolution Sensor. <i>Aerosol and Air Quality Research</i> , 2018, 18, 2487-2497.	0.9	41
40	High-Sensitivity Instrument for Measuring Atmospheric NO ₂ . <i>Analytical Chemistry</i> , 2001, 73, 5485-5493.	3.2	40
41	Ion Fragment Imaging of the Ion-Pair Photodissociation of CH ₃ Cl, CH ₃ Br, C ₂ H ₅ Cl, and C ₂ H ₅ Br at 118 nm. <i>Journal of Physical Chemistry A</i> , 1997, 101, 1222-1226.	1.1	39
42	Doppler spectroscopy of chlorine atoms generated from photodissociation of hydrogen chloride and methyl chloride at 157 and 193 nm. <i>Journal of Chemical Physics</i> , 1990, 92, 1696-1701.	1.2	37
43	Above-Threshold Effects in the Photodissociation and Photoionization of Iodobenzene. <i>Journal of Physical Chemistry A</i> , 2001, 105, 2270-2280.	1.1	35
44	Formation of O(3P) Atoms in the Photolysis of N ₂ O at 193 nm and O(3P) + N ₂ O Product Channel in the Reaction of O(1D) + N ₂ O. <i>Journal of Physical Chemistry A</i> , 2004, 108, 2451-2456.	1.1	35
45	Atmospheric Chemistry of CF ₃ CHCH ₂ and C ₄ F ₉ CHCH ₂ : Products of the Gas-Phase Reactions with Cl Atoms and OH Radicals. <i>Journal of Physical Chemistry A</i> , 2007, 111, 909-915.	1.1	35
46	Doppler profiles and fine-structure branching ratios of O(3P _j) from photodissociation of carbon dioxide at 157 nm. <i>Journal of Chemical Physics</i> , 1991, 95, 7311-7316.	1.2	33
47	Rate constants of the O(1D) reactions with N ₂ , O ₂ , N ₂ O, and H ₂ O at 295K. <i>Chemical Physics Letters</i> , 2005, 410, 196-200.	1.2	33
48	Quantum Yields for Cl(2P _j) Atom Formation from the Photolysis of Chlorofluorocarbons and Chlorinated Hydrocarbons at 193.3 nm. <i>Journal of Physical Chemistry A</i> , 2005, 109, 2855-2860.	1.1	33
49	Atmospheric deuterium fractionation: HCHO and HCDO yields in the CH ₃ CHO + O(1D) reaction. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5873-5881.	1.9	33
50	Evaluation of MAX-DOAS aerosol retrievals by coincident observations using CRDS, lidar, and sky radiometer in Tsukuba, Japan. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2775-2788.	1.2	33
51	PM _{2.5} and ozone in office environments and their potential impact on human health. <i>Ecotoxicology and Environmental Safety</i> , 2020, 194, 110432.	2.9	33
52	Ion Imaging of the Photodissociation of Chlorine-Containing Molecules. <i>The Journal of Physical Chemistry</i> , 1996, 100, 19853-19858.	2.9	32
53	Wavelength Dependence of Refractive Index of Secondary Organic Aerosols Generated during the Ozonolysis and Photooxidation of α -Pinene. <i>Scientific Online Letters on the Atmosphere</i> , 2012, 8, 119-123.	0.6	32
54	Doppler spectroscopy of hydrogen atoms from the photodissociation of saturated hydrocarbons and methyl halides at 157 nm. <i>Journal of Chemical Physics</i> , 1991, 95, 5065-5071.	1.2	31

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55	Product Branching Ratios for O(3P) Atom and ClO Radical Formation in the Reactions of O(1D) with Chlorinated Compounds. <i>The Journal of Physical Chemistry</i> , 1996, 100, 10145-10149.	2.9	31
56	Measurements of aerosol optical properties in central Tokyo during summertime using cavity ring-down spectroscopy: Comparison with conventional techniques. <i>Atmospheric Environment</i> , 2010, 44, 3034-3042.	1.9	31
57	Doppler spectroscopy of hydrogen and chlorine atoms from photodissociation of silane, germane, chlorosilanes, and chloromethanes in the vacuum ultraviolet region. <i>The Journal of Physical Chemistry</i> , 1992, 96, 6688-6693.	2.9	30
58	Fine structure branching ratios and translational energies of O(3P _j) atoms produced from collision induced intersystem crossing of O(1D) atoms. <i>Journal of Chemical Physics</i> , 1994, 100, 315-324.	1.2	30
59	Photofragmentation of ClNO in the A-Band: Velocity Distribution and Fine-Structure Branching Ratio of Cl(2P _j) Atoms. <i>The Journal of Physical Chemistry</i> , 1996, 100, 12321-12328.	2.9	30
60	Relaxation processes of electronically excited trimethylamine. I. Energy dependence of intramolecular processes in isolated molecule. <i>Chemical Physics</i> , 1980, 49, 87-93.	0.9	29
61	Photodissociation of chlorine molecule in the UV region. <i>Chemical Physics Letters</i> , 1989, 155, 486-490.	1.2	29
62	Photodissociation of ICl at 235–248 nm. <i>Journal of Chemical Physics</i> , 1993, 99, 3461-3467.	1.2	29
63	Vibrational and rotational energy distribution of ClO produced in reactions of O(1D) atoms with HCl, CCl ₄ , and chlorofluoromethanes. <i>Journal of Chemical Physics</i> , 1995, 103, 4490-4495.	1.2	29
64	Translational energy and angular distributions of O(1) and O(2) fragments in the UV photodissociation of ozone. <i>Chemical Physics</i> , 1998, 231, 171-182.	0.9	29
65	Radiative transfer modeling of filter-based measurements of light absorption by particles: Importance of particle size dependent penetration depth. <i>Journal of Aerosol Science</i> , 2010, 41, 401-412.	1.8	29
66	Fine structure branching ratios of the O(3P _j) atomic fragments from photodissociation of oxygen molecules at 157 and 193 nm. <i>Journal of Chemical Physics</i> , 1990, 93, 2481-2486.	1.2	28
67	Dynamics of the Reaction S(¹ D) + HD, H ₂ , and D ₂ : Isotopic Branching Ratios and Translational Energy Release. <i>Laser Chemistry</i> , 1994, 14, 235-244.	0.5	28
68	Control of photofragment velocity anisotropy by optical alignment of CH ₃ I. <i>Journal of Chemical Physics</i> , 2000, 112, 2164-2167.	1.2	28
69	Photodissociation of O ₃ around 309 nm. <i>Journal of Physical Chemistry A</i> , 2000, 104, 8936-8944.	1.1	28
70	Quantum yields of O(1D) formation in the photolysis of ozone between 230 and 308 nm. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 11-1.	3.3	28
71	Nighttime measurements of ambient N ₂ O ₅ , NO ₂ , NO and O ₃ in a sub-urban area, Toyokawa, Japan. <i>Atmospheric Environment</i> , 2008, 42, 1995-2006.	1.9	28
72	Characteristics of atmospheric aerosols containing heavy metals measured on Fukue Island, Japan. <i>Atmospheric Environment</i> , 2014, 97, 447-455.	1.9	28

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73	East Asian Monsoon controls on the inter-annual variability in precipitation isotope ratio in Japan. <i>Climate of the Past</i> , 2015, 11, 339-353.	1.3	28
74	Secondary Organic Aerosol Formation during the Photo-Oxidation of Toluene: Dependence on Initial Hydrocarbon Concentration. <i>Bulletin of the Chemical Society of Japan</i> , 2004, 77, 667-671.	2.0	27
75	Complex refractive index of secondary organic aerosol generated from isoprene/NO _x photooxidation in the presence and absence of SO ₂ . <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 7777-7787.	1.2	27
76	Remotely operable compact instruments for measuring atmospheric CO ₂ and CH ₄ column densities at surface monitoring sites. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1103-1112.	1.2	27
77	The photodissociation of iodine monochloride at 235 nm. <i>Chemical Physics Letters</i> , 1996, 258, 159-163.	1.2	26
78	Direct observation of the B ³ Σ ⁻ g transition of diatomic sulfur in a supersonic free jet. <i>Journal of Chemical Physics</i> , 1984, 81, 1108-1114.	1.2	25
79	Collisional relaxation of translational energy and fine structure levels of the O(3Pj) atom created in the photodissociation of SO ₂ at 193 nm. <i>Journal of Chemical Physics</i> , 1994, 101, 5647-5651.	1.2	25
80	Measurement of the light absorbing properties of diesel exhaust particles using a three-wavelength photoacoustic spectrometer. <i>Atmospheric Environment</i> , 2014, 94, 428-437.	1.9	25
81	Scavenging of pollutant acid substances by Asian mineral dust particles. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	24
82	MegaSense: Feasibility of Low-Cost Sensors for Pollution Hot-spot Detection. , 2019, , .		24
83	Flourescence lifetimes anf excitation spectra of the jet-cooled HNO radical. <i>Chemical Physics Letters</i> , 1983, 95, 520-524.	1.2	23
84	Fine structure branching ratios and Doppler spectra of O(3Pj) produced by the reaction of H+O ₂ →OH+O. <i>Journal of Chemical Physics</i> , 1991, 95, 4972-4976.	1.2	23
85	Ion imaging of the photodissociation of HNCO near 217 nm. <i>Chemical Physics Letters</i> , 1996, 251, 67-73.	1.2	23
86	Collision energy dependence of vibrational/rotational distribution of BaBr produced in the crossed beam reaction Ba+CH ₃ Br. <i>Journal of Chemical Physics</i> , 1983, 79, 1698-1707.	1.2	22
87	Photodissociation of oxygen molecules at 226 nm in the Herzberg I system. <i>Journal of Chemical Physics</i> , 1991, 95, 3394-3398.	1.2	22
88	Trace detection of atmospheric NO ₂ by laser-induced fluorescence using a GaN diode laser and a diode-pumped YAG laser. <i>Applied Optics</i> , 2007, 46, 907.	2.1	22
89	The effects of meteorological conditions and long-range transport on PM _{2.5} levels in Hanoi revealed from multi-site measurement using compact sensors and machine learning approach. <i>Journal of Aerosol Science</i> , 2021, 152, 105716.	1.8	22
90	O(3Pj) atom formation from photodissociation of ozone in the visible and ultraviolet region. <i>Canadian Journal of Chemistry</i> , 1994, 72, 637-642.	0.6	21

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91	Equilibrium Constants of the Reaction of Cl with O ₂ in the Formation of ClOO. Journal of Physical Chemistry A, 2004, 108, 8096-8099.	1.1	21
92	Comparison of laser-induced fluorescence and chemiluminescence measurements of NO ₂ at an urban site. Atmospheric Environment, 2011, 45, 6233-6240.	1.9	21
93	Total OH reactivity measurement in a BVOC dominated temperate forest during a summer campaign, 2014. Atmospheric Environment, 2016, 131, 41-54.	1.9	21
94	Effects of pyrolysis temperature and feedstock type on particulate matter emission characteristics during biochar combustion. Fuel Processing Technology, 2020, 204, 106408.	3.7	21
95	Photolysis of CH ₃ SH and H ₂ S at 243.1 nm studied by photofragment ion imaging. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 5181.	1.7	20
96	Vibrational Distribution of ClO Radicals Produced in the Reaction Cl + O ₃ → ClO + O ₂ . The Journal of Physical Chemistry, 1996, 100, 176-179.	2.9	20
97	Chemical dry etching mechanisms of GaAs surface by HCl and Cl ₂ . Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 3230.	1.6	20
98	Photodissociation of Water Dimer at 205 nm. Journal of Physical Chemistry A, 2004, 108, 8119-8124.	1.1	20
99	Kinetics of the Reactions of Cl*(2P _{1/2}) and Cl(2P _{3/2}) Atoms with CH ₃ OH, C ₂ H ₅ OH, n-C ₃ H ₇ OH, and i-C ₃ H ₇ OH at 295 K. Journal of Physical Chemistry A, 2005, 109, 3935-3940.	1.1	20
100	Pulsed Laser Photolysis Vacuum UV Laser-Induced Fluorescence Kinetic Study of the Gas-Phase Reactions of Cl(2P _{3/2}) Atoms with C ₃ ~C ₆ Ketones. Journal of Physical Chemistry A, 2007, 111, 1271-1276.	1.1	20
101	He(I) Photoelectron spectra and VUV absorption cross sections of Ga(CH ₃) ₃ and In(CH ₃) ₃ . Chemical Physics Letters, 1989, 160, 152-156.	1.2	19
102	Collisional Excitation of CO Molecules by O(1D) Atoms. The Journal of Physical Chemistry, 1994, 98, 12641-12645.	2.9	19
103	Atmospheric Chemistry of Pivalaldehyde and Isobutyraldehyde: Kinetics and Mechanisms of Reactions with Cl Atoms, Fate of (CH ₃) ₃ CC(O) and (CH ₃) ₂ CHC(O) Radicals, and Self-Reaction Kinetics of (CH ₃) ₃ CC(O)O ₂ and (CH ₃) ₂ CHC(O)O ₂ Radicals. Journal of Physical Chemistry A, 2004, 108, 795-805.	1.1	19
104	Kinetics of the gas phase reactions of chlorine atoms with a series of ketones. Chemical Physics Letters, 2006, 431, 257-260.	1.2	19
105	Design and characterization of a novel single-particle polar nephelometer. Aerosol Science and Technology, 2016, 50, 392-404.	1.5	19
106	Effect of Oxidation Process on Complex Refractive Index of Secondary Organic Aerosol Generated from Isoprene. Environmental Science & Technology, 2018, 52, 2566-2574.	4.6	19
107	Real-Time Analysis of Secondary Organic Aerosol Particles Formed from Cyclohexene Ozonolysis Using a Laser-Ionization Single-Particle Aerosol Mass Spectrometer. Analytical Sciences, 2007, 23, 507-512.	0.8	18
108	Approach to Thermal Equilibrium in Atomic Collisions. Physical Review Letters, 2008, 100, 103001.	2.9	18

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109	Time resolved study of the $\text{B}^1\Sigma^+_{\text{g}}$ and $\text{B}^1\Pi_{\text{g}}$ states of diatomic sulfur in a supersonic free jet. <i>Journal of Chemical Physics</i> , 1985, 83, 3798-3804.	1.2	17
110	Ion Fragment Imaging of the Photodissociation of Methyl Iodide Small Clusters at 266 nm. <i>Bulletin of the Chemical Society of Japan</i> , 1998, 71, 2539-2545.	2.0	17
111	Atmospheric Chemistry of CH_3CHF_2 (HFC-152a): Kinetics, Mechanisms, and Products of Cl Atom- and OH Radical-Initiated Oxidation in the Presence and Absence of NO_x . <i>Journal of Physical Chemistry A</i> , 2005, 109, 9061-9069.	1.1	16
112	Can Delhi's Pollution be Affected by Crop Fires in the Punjab Region?. <i>Scientific Online Letters on the Atmosphere</i> , 2020, 16, 86-91.	0.6	16
113	Relaxation processes of electronically excited trimethylamine. II. Collision induced fluorescence enhancement and quenching. <i>Chemical Physics</i> , 1980, 49, 95-106.	0.9	15
114	Laser-induced fluorescence detection of ClO radicals at 167-180 nm. <i>Journal of Chemical Physics</i> , 1994, 101, 8262-8263.	1.2	15
115	Relaxation Processes of Translationally Hot O(1D) by Collisions with O ₂ . <i>Journal of Physical Chemistry A</i> , 2000, 104, 3894-3899.	1.1	15
116	Kinetics of the reactions of $\text{Cl}^-(2P_{1/2})$ and $\text{Cl}(2P_{3/2})$ atoms with C_3H_8 , C_3D_8 , $n\text{-C}_4\text{H}_{10}$, and $i\text{-C}_4\text{H}_{10}$ at 298 K. <i>Chemical Physics Letters</i> , 2001, 346, 16-22.	1.2	15
117	CF_3ONO_2 yield in the gas phase reaction of CF_3O_2 radicals with NO . <i>Chemical Physics Letters</i> , 2004, 388, 242-247.	1.2	15
118	Transit pollution exposure monitoring using low-cost wearable sensors. <i>Transportation Research, Part D: Transport and Environment</i> , 2021, 98, 102981.	3.2	15
119	Pyrolytic and photolytic dissociation of trimethylgallium on Si and Au substrates. <i>Journal of Applied Physics</i> , 1991, 70, 462-468.	1.1	14
120	Hygroscopicity of aerosol particles and CCN activity of nearly hydrophobic particles in the urban atmosphere over Japan during summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7215-7234.	1.2	14
121	Vacuum ultraviolet photochemistry of CHFCl_2 and CHFBr_2 : Absorption spectra and $\text{CHF}(\text{A}^1\Sigma^+)$ radical formation. <i>Journal of Chemical Physics</i> , 1990, 92, 4277-4282.	1.2	13
122	Laser-Induced Fluorescence Instrument for the Detection of Tropospheric OH Radicals. <i>Bulletin of the Chemical Society of Japan</i> , 2002, 75, 711-717.	2.0	13
123	Diagnostics of surface wave excited Kr/O ₂ plasma for low-temperature oxidation processes. <i>Journal of Applied Physics</i> , 2007, 102, 013302.	1.1	13
124	Time domain, single rovibronic observation of laser-induced fluorescence from thionitrosyl (NS) B ₂ P ₁ . <i>The Journal of Physical Chemistry</i> , 1984, 88, 264-269.	2.9	12
125	Isotopic Branching Ratios and Translational Energy Release of H and D Atoms in the Reaction of O(1D) with CH_3OD and CD_3OH . <i>The Journal of Physical Chemistry</i> , 1994, 98, 3777-3781.	2.9	12
126	Atmospheric chemistry of $\text{CF}_3\text{CFHOCF}_3$: kinetics of the reaction with Cl atoms and fate of $\text{CF}_3\text{CFO}(\text{O})$. <i>Journal of Physical Chemistry A</i> , 2000, 104, 10298-10304.	1.2	12

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127	Hydrogen Atom Formation in the Photolysis of Acetone at 193 nm. Journal of Physical Chemistry A, 2004, 108, 8002-8008.	1.1	12
128	Balloon-borne tropospheric CO ₂ observations over the equatorial eastern and western Pacific. Atmospheric Environment, 2018, 184, 24-36.	1.9	12
129	Reaction Processes of O(1D) with Fluoroethane Compounds. Journal of Physical Chemistry A, 2001, 105, 65-69.	1.1	11
130	Above-Threshold Dissociative Ionization in the Intermediate Intensity Regime. Physical Review Letters, 2001, 86, 2245-2248.	2.9	11
131	Dissociative ionization of ICl studied by ion imaging spectroscopy. Journal of Chemical Physics, 2002, 117, 1130-1138.	1.2	11
132	Nonthermal steady state translational energy distributions of O(1D) atoms in the stratosphere. Journal of Geophysical Research, 2002, 107, ACH 6-1.	3.3	11
133	Quantum Yield for O(1D) Production from Ozone Photolysis in the Wavelength Range of 193~225 nm. Journal of Physical Chemistry A, 2004, 108, 2710-2714.	1.1	11
134	Characterization of Aerosol Particles in the Tokyo Metropolitan Area using Two Different Particle Mass Spectrometers. Aerosol Science and Technology, 2011, 45, 315-326.	1.5	11
135	Low-cost Air Quality Sensing Process: Validation by Indoor-Outdoor Measurements. , 2020, , .		11
136	N(4S) Formation following the 193.3-nm ArF Laser Irradiation of NO and NO ₂ and Its Application to Kinetic Studies of N(4S) Reactions with NO and NO ₂ . Journal of Physical Chemistry A, 2005, 109, 10897-10902.	1.1	10
137	Mechanism of the gas phase reaction of chlorine atoms with butanone. Chemical Physics Letters, 2007, 439, 274-279.	1.2	10
138	Thermal decomposition rate of N ₂ O ₅ measured by cavity ring-down spectroscopy. International Journal of Chemical Kinetics, 2008, 40, 679-684.	1.0	10
139	Vacuum Ultraviolet Laser-Induced Fluorescence Detection of O(1S) Atom Produced in the 193 nm Photolysis of Ozone. Journal of Physical Chemistry A, 2003, 107, 9368-9373.	1.1	9
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