Yutaka Matsumi

List of Publications by Year
in descending order

202	5,106	81900	155660
papers	citations	39 h-index	55 g-index

210	210	210	4611
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photolysis of Atmospheric Ozone in the Ultraviolet Region. Chemical Reviews, 2003, 103, 4767-4782.	47.7	153
2	Laboratory studies on optical properties of secondary organic aerosols generated during the photooxidation of toluene and the ozonolysis of Î±â€pinene. Journal of Geophysical Research, 2010, 115, .	3.3	130
3	Wavelength and NO_x dependent complex refractive index of SOAs generated from the photooxidation of toluene. Atmospheric Chemistry and Physics, 2013, 13, 531-545.	4.9	129
4	Ion Imaging of the Photodissociation of OCS Near 217 and 230 nm. The Journal of Physical Chemistry, 1995, 99, 16307-16314.	2.9	114
5	ATMOSPHERIC CHEMISTRY: Photochemistry of Ozone: Surprises and Recent Lessons. Science, 1998, 280, 60-61.	12.6	103
6	Quantum yields for production of O(1D) in the ultraviolet photolysis of ozone: Recommendation based on evaluation of laboratory data. Journal of Geophysical Research, 2002, 107, ACH 1-1.	3.3	99
7	Spectroscopic measurements of tropospheric CO, C2H6, C2H2, and HCN in northern Japan. Journal of Geophysical Research, 2002, 107, ACH 2-1.	3.3	95
8	Fineâ€structure branching ratios and Doppler profiles of Cl(2Pj) photofragments from photodissociation of the chlorine molecule near and in the ultraviolet region. Journal of Chemical Physics, 1992, 97, 1065-1071.	3.0	92
9	PM2.5 diminution and haze events over Delhi during the COVID-19 lockdown period: an interplay between the baseline pollution and meteorology. Scientific Reports, 2020, 10, 13442.	3.3	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. The Journal of Physical Chemistry, 1993, 97, 6816-6821.	2.9	72
11	Characterization of a Three Wavelength Photoacoustic Soot Spectrometer (PASS-3) and a Photoacoustic Extinctiometer (PAX). Journal of the Meteorological Society of Japan, 2015, 93, 285-308.	1.8	68
12	Dynamics of the reactions of O(1D) with HCl, DCl, and Cl2. Journal of Chemical Physics, 1993, 98, 8330-8336.	3.0	65
13	Mechanism of the ultraviolet photodissociation of chloroethylenes determined from the Doppler profiles, spatial anisotropy, and power dependence of the photofragments. Journal of Chemical Physics, 1992, 97, 4815-4826.	3.0	64
14	Emission spectra of SiH(Aâ€‰2Î”â†’Xâ€‰2Î) and SiCl2(Ã1Æ€â€‰1B1â†’XÌƒâ€‰1A1) in the VUV photolyses of silane and chlorinated silanes. Journal of Chemical Physics, 1985, 83, 2769-2774.	3.0	62
15	Formation of O(3Pj) photofragments from the Hartley band photodissociation of ozone at 226 nm. Journal of Chemical Physics, 1990, 93, 3289-3294.	3.0	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. Journal of Chemical Physics, 1991, 94, 2669-2674.	3.0	59
17	Size-dependent correction factors for absorption measurements using filter-based photometers: PSAP and COSMOS. Journal of Aerosol Science, 2010, 41, 333-343.	3.8	57
18	Properties of lightâ€absorbing aerosols in the Nagoya urban area, Japan, in August 2011 and January 2012: Contributions of brown carbon and lensing effect. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,721.	3.3	57

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19	Laserâ€induced fluorescence study of silicon etching process: Detection of SiF2and CF2radicals. Journal of Applied Physics, 1986, 60, 4102-4108.	2.5	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.	4.9	54
21	Velocity relaxation of hot O(1D) atoms by collisions with rare gases, N2, and O2. Journal of Chemical Physics, 1994, 101, 9610-9618.	3.0	53
22	Photodissociation of hydrogen chloride at 157 and 193 nm: Angular distributions of hydrogen atoms and fineâ€structure branching ratios of chlorine atoms in the2Pjlevels. Journal of Chemical Physics, 1992, 97, 8210-8215.	3.0	50
23	Translational relaxation and electronic quenching of hot O(1D) by collisions with N2. Journal of Chemical Physics, 1996, 104, 7036-7044.	3.0	50
24	Observation of the spinâ€forbidden O(1D)+O2(Xâ€‰3Î£gâ^') channel in the 317â€“327 nm photolysis of ozone. Journal of Chemical Physics, 1996, 105, 5290-5293.	3.0	50
25	Determination of the heat of formation of O3 using vacuum ultraviolet laser-induced fluorescence spectroscopy and two-dimensional product imaging techniques. Journal of Chemical Physics, 1999, 111, 6350-6355.	3.0	50
26	Development and evaluation of a palm-sized optical PM_{2.5}sensor. Aerosol Science and Technology, 2018, 52, 2-12.	3.1	49
27	Photodissociation Processes of Ozone in the Huggins Band at 308â^'326 nm:Â Direct Observation of O(1D2) and O(3Pj) Products. The Journal of Physical Chemistry, 1996, 100, 4084-4089.	2.9	48
28	The exposure of children to PM2.5 and dust in indoor and outdoor school classrooms in Kuala Lumpur City Centre. Ecotoxicology and Environmental Safety, 2019, 170, 739-749.	6.0	48
29	Wavelength and temperature dependence of the absolute O(1D) production yield from the 305â€“329 nm photodissociation of ozone. Journal of Chemical Physics, 1998, 108, 7161-7172.	3.0	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 305â€“329 nm. Journal of Chemical Physics, 1997, 106, 6390-6397.	3.0	46
32	The ultraviolet photodissociation of Cl2O at 235 nm and of HOCl at 235 and 266 nm. Journal of Chemical Physics, 1998, 109, 1315-1323.	3.0	45
33	Atmospheric chemistry of CxF2x+1CHCH2 (x=1, 2, 4, 6, and 8): Kinetics of gas-phase reactions with Cl atoms, OH radicals, and O3. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 176, 124-128.	3.9	45
34	The Doppler spectra of O(1D) from the photodissociation of O2, NO2, and N2O. Journal of Chemical Physics, 1991, 95, 6218-6223.	3.0	44
35	Reaction and Quenching of Cl(2Pj) Atoms in Collisions with Methane and Deuterated Methanes. Journal of Physical Chemistry A, 1997, 101, 1216-1221.	2.5	44
36	Effect of molecular bending on the photodissociation of OCS. Journal of Chemical Physics, 2000, 112, 7095-7101.	3.0	44

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37	Photodissociation of hydrogen chloride and hydrogen bromide. Journal of Chemical Physics, 1990, 93, 7981-7985.	3.0	41
38	Kinetics of the Reactions of Cl(2P1/2) and Cl(2P3/2) Atoms with C2H6, C2D6, CH3F, C2H5F, and CH3CF3at 298 K. Journal of Physical Chemistry A, 2001, 105, 5131-5136.	2.5	41
39	Characterizing PM2.5 in Hanoi with New High Temporal Resolution Sensor. Aerosol and Air Quality Research, 2018, 18, 2487-2497.	2.1	41
40	High-Sensitivity Instrument for Measuring Atmospheric NO2. Analytical Chemistry, 2001, 73, 5485-5493.	6.5	40
41	Ion Fragment Imaging of the Ion-Pair Photodissociation of CH3Cl, CH3Br, C2H5Cl, and C2H5Br at 118 nm. Journal of Physical Chemistry A, 1997, 101, 1222-1226.	2.5	39
42	Doppler spectroscopy of chlorine atoms generated from photodissociation of hydrogen chloride and methyl chloride at 157 and 193 nm. Journal of Chemical Physics, 1990, 92, 1696-1701.	3.0	37
43	Above-Threshold Effects in the Photodissociation and Photoionization of Iodobenzeneâ€. Journal of Physical Chemistry A, 2001, 105, 2270-2280.	2.5	35
44	Formation of O(3P) Atoms in the Photolysis of N2O at 193 nm and O(3P) + N2O Product Channel in the Reaction of O(1D) + N2O. Journal of Physical Chemistry A, 2004, 108, 2451-2456.	2.5	35
45	Atmospheric Chemistry of CF3CHCH2 and C4F9CHCH2:â€‰ Products of the Gas-Phase Reactions with Cl Atoms and OH Radicals. Journal of Physical Chemistry A, 2007, 111, 909-915.	2.5	35
46	Doppler profiles and fineâ€structure branching ratios of O(3Pj) from photodissociation of carbon dioxide at 157 nm. Journal of Chemical Physics, 1991, 95, 7311-7316.	3.0	33
47	Rate constants of the O(1D) reactions with N2, O2, N2O, and H2O at 295K. Chemical Physics Letters, 2005, 410, 196-200.	2.6	33
48	Quantum Yields for Cl(2Pj) Atom Formation from the Photolysis of Chlorofluorocarbons and Chlorinated Hydrocarbons at 193.3 nm. Journal of Physical Chemistry A, 2005, 109, 2855-2860.	2.5	33
49	Atmospheric deuterium fractionation: HCHO and HCDO yields in the CH₂DO + O₂ reaction. Atmospheric Chemistry and Physics, 2007, 7, 5873-5881.	4.9	33
50	Evaluation of MAX-DOAS aerosol retrievals by coincident observations using CRDS, lidar, and sky radiometer inTsukuba, Japan. Atmospheric Measurement Techniques, 2015, 8, 2775-2788.	3.1	33
51	PM2.5 and ozone in office environments and their potential impact on human health. Ecotoxicology and Environmental Safety, 2020, 194, 110432.	6.0	33
52	Ion Imaging of the Photodissociation of Chlorine-Containing Molecules. The Journal of Physical Chemistry, 1996, 100, 19853-19858.	2.9	32
53	Wavelength Dependence of Refractive Index of Secondary Organic Aerosols Generated during the Ozonolysis and Photooxidation of Î±-Pinene. Scientific Online Letters on the Atmosphere, 2012, 8, 119-123.	1.4	32
54	Doppler spectroscopy of hydrogen atoms from the photodissociation of saturated hydrocarbons and methyl halides at 157 nm. Journal of Chemical Physics, 1991, 95, 5065-5071.	3.0	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. The Journal of Physical Chemistry, 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. Atmospheric Environment, 2010, 44, 3034-3042.	4.1	31
57	Doppler spectroscopy of hydrogen and chlorine atoms from photodissociation of silane, germane, chlorosilanes, and chloromethanes in the vacuum ultraviolet region. The Journal of Physical Chemistry, 1992, 96, 6688-6693.	2.9	30
58	Fine structure branching ratios and translational energies of O(3Pj) atoms produced from collision induced intersystem crossing of O(1D) atoms. Journal of Chemical Physics, 1994, 100, 315-324.	3.0	30
59	Photofragmentation of ClNO in the A-Band:â€‰ Velocity Distribution and Fine-Structure Branching Ratio of Cl(2Pj) Atoms. The Journal of Physical Chemistry, 1996, 100, 12321-12328.	2.9	30
60	Relaxation processes of electronically excited trimethylamine. I. Energy dependence of intramolecular processes in isolated molecule. Chemical Physics, 1980, 49, 87-93.	1.9	29
61	Photodissociation of chlorine molecule in the UV region. Chemical Physics Letters, 1989, 155, 486-490.	2.6	29
62	Photodissociation of ICl at 235â€“248 nm. Journal of Chemical Physics, 1993, 99, 3461-3467.	3.0	29
63	Vibrational and rotational energy distribution of ClO produced in reactions of O(1D) atoms with HCl, CCl4, and chlorofluoromethanes. Journal of Chemical Physics, 1995, 103, 4490-4495.	3.0	29
64	Translational energy and angular distributions of O() and O(j) fragments in the UV photodissociation of ozone. Chemical Physics, 1998, 231, 171-182.	1.9	29
65	Radiative transfer modeling of filter-based measurements of light absorption by particles: Importance of particle size dependent penetration depth. Journal of Aerosol Science, 2010, 41, 401-412.	3.8	29
66	Fine structure branching ratios of the O(3Pj) atomic fragments from photodissociation of oxygen molecules at 157 and 193 nm. Journal of Chemical Physics, 1990, 93, 2481-2486.	3.0	28
67	Dynamics of the Reaction S(¹D) + HD, H₂, and D₂: Isotopic Branching Ratios and Translational Energy Release. Laser Chemistry, 1994, 14, 235-244.	0.5	28
68	Control of photofragment velocity anisotropy by optical alignment of CH3I. Journal of Chemical Physics, 2000, 112, 2164-2167.	3.0	28
69	Photodissociation of O3around 309 nm. Journal of Physical Chemistry A, 2000, 104, 8936-8944.	2.5	28
70	Quantum yields of O(1D) formation in the photolysis of ozone between 230 and 308 nm. Journal of Geophysical Research, 2002, 107, ACH 11-1.	3.3	28
71	Nighttime measurements of ambient N2O5, NO2, NO and O3 in a sub-urban area, Toyokawa, Japan. Atmospheric Environment, 2008, 42, 1995-2006.	4.1	28
72	Characteristics of atmospheric aerosols containing heavy metals measured on Fukue Island, Japan. Atmospheric Environment, 2014, 97, 447-455.	4.1	28

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73	East Asian Monsoon controls on the inter-annual variability in precipitation isotope ratio in Japan. Climate of the Past, 2015, 11, 339-353.	3.4	28
74	Secondary Organic Aerosol Formation during the Photo-Oxidation of Toluene: Dependence on Initial Hydrocarbon Concentration. Bulletin of the Chemical Society of Japan, 2004, 77, 667-671.	3.2	27
75	Complex refractive index of secondary organic aerosol generated from isoprene/NO_x photooxidation in the presence and absence of SO₂. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7777-7787.	3.3	27
76	Remotely operable compact instruments for measuring atmospheric CO₂ and CH₄ column densities at surface monitoring sites. Atmospheric Measurement Techniques, 2010, 3, 1103-1112.	3.1	27
77	The photodissociation of iodine monochloride at 235 nm. Chemical Physics Letters, 1996, 258, 159-163.	2.6	26
78	Direct observation of the Bâ€³â€‰3Îuâ€“Xâ€‰3Î£â^'g transition of diatomic sulfur in a supersonic free jet. Journal of Chemical Physics, 1984, 81, 1108-1114.	3.0	25
79	Collisional relaxation of translational energy and fineâ€structure levels of the O(3Pj) atom created in the photodissociation of SO2at 193 nm. Journal of Chemical Physics, 1994, 101, 5647-5651.	3.0	25
80	Measurement of the light absorbing properties of diesel exhaust particles using a three-wavelength photoacoustic spectrometer. Atmospheric Environment, 2014, 94, 428-437.	4.1	25
81	Scavenging of pollutant acid substances by Asian mineral dust particles. Geophysical Research Letters, 2006, 33, .	4.0	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. Chemical Physics Letters, 1983, 95, 520-524.	2.6	23
84	Fine structure branching ratios and Doppler spectra of O(3Pj) produced by the reaction of H+O2â†'OH+O. Journal of Chemical Physics, 1991, 95, 4972-4976.	3.0	23
85	Ion imaging of the photodissociation of HNCO near 217 nm. Chemical Physics Letters, 1996, 251, 67-73.	2.6	23
86	Collision energy dependence of vibrational/rotational distribution of BaBr produced in the crossed beam reaction Ba+CH3Br. Journal of Chemical Physics, 1983, 79, 1698-1707.	3.0	22
87	Photodissociation of oxygen molecules at 226 nm in the Herzberg I system. Journal of Chemical Physics, 1991, 95, 3394-3398.	3.0	22
88	Trace detection of atmospheric NO_2 by laser-induced fluorescence using a GaN diode laser and a diode-pumped YAG laser. Applied Optics, 2007, 46, 907.	2.1	22
89	The effects of meteorological conditions and long-range transport on PM2.5 levels in Hanoi revealed from multi-site measurement using compact sensors and machine learning approach. Journal of Aerosol Science, 2021, 152, 105716.	3.8	22
90	O(3Pj) atom formation from photodissociation of ozone in the visible and ultraviolet region. Canadian Journal of Chemistry, 1994, 72, 637-642.	1.1	21

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91	Equilibrium Constants of the Reaction of Cl with O2in the Formation of ClOOâ€. Journal of Physical Chemistry A, 2004, 108, 8096-8099.	2.5	21
92	Comparison of laser-induced fluorescence and chemiluminescence measurements of NO2 at an urban site. Atmospheric Environment, 2011, 45, 6233-6240.	4.1	21
93	Total OH reactivity measurement in a BVOC dominated temperate forest during a summer campaign, 2014. Atmospheric Environment, 2016, 131, 41-54.	4.1	21
94	Effects of pyrolysis temperature and feedstock type on particulate matter emission characteristics during biochar combustion. Fuel Processing Technology, 2020, 204, 106408.	7.2	21
95	Photolysis of CH3SH and H2S 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 + O3â† ClO + O2. The Journal of Physical Chemistry, 1996, 100, 176-179.	2.9	20
97	Chemical dry etching mechanisms of GaAs surface by HCl and Cl2. 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 nmâ€. Journal of Physical Chemistry A, 2004, 108, 8119-8124.	2.5	20
99	Kinetics of the Reactions of Cl*(2P1/2) and Cl(2P3/2) Atoms with CH3OH, C2H5OH, n-C3H7OH, and i-C3H7OH at 295 K. Journal of Physical Chemistry A, 2005, 109, 3935-3940.	2.5	20
100	Pulsed Laser Photolysis Vacuum UV Laser-Induced Fluorescence Kinetic Study of the Gas-Phase Reactions of Cl(2P3/2) Atoms with C3â^'C6Ketones. Journal of Physical Chemistry A, 2007, 111, 1271-1276.	2.5	20
101	He(I) Photoelectron spectra and VUV absorption cross sections of Ga(CH3)3 and In(CH3)3. Chemical Physics Letters, 1989, 160, 152-156.	2.6	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:Â Kinetics and Mechanisms of Reactions with Cl Atoms, Fate of (CH3)3CC(O) and (CH3)2CHC(O) Radicals, and Self-Reaction Kinetics of (CH3)3CC(O)O2and (CH3)2CHC(O)O2Radicals. Journal of Physical Chemistry A, 2004, 108, 795-805.	2.5	19
104	Kinetics of the gas phase reactions of chlorine atoms with a series of ketones. Chemical Physics Letters, 2006, 431, 257-260.	2.6	19
105	Design and characterization of a novel single-particle polar nephelometer. Aerosol Science and Technology, 2016, 50, 392-404.	3.1	19
106	Effect of Oxidation Process on Complex Refractive Index of Secondary Organic Aerosol Generated from Isoprene. Environmental Science & Technology, 2018, 52, 2566-2574.	10.0	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.	1.6	18
108	Approach to Thermal Equilibrium in Atomic Collisions. Physical Review Letters, 2008, 100, 103001.	7.8	18

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109	Time resolved study of the Bâ€‰3Î£â^'u and Bâ€˜â€‰3Îu states of diatomic sulfur in a supersonic free jet. Journal of Chemical Physics, 1985, 83, 3798-3804.	3.0	17
110	Ion Fragment Imaging of the Photodissociation of Methyl Iodide Small Clusters at 266 nm. Bulletin of the Chemical Society of Japan, 1998, 71, 2539-2545.	3.2	17
111	Atmospheric Chemistry of CH3CHF2(HFC-152a):Â Kinetics, Mechanisms, and Products of Cl Atom- and OH Radical-Initiated Oxidation in the Presence and Absence of NOx. Journal of Physical Chemistry A, 2005, 109, 9061-9069.	2.5	16
112	Can Delhi's Pollution be Affected by Crop Fires in the Punjab Region?. Scientific Online Letters on the Atmosphere, 2020, 16, 86-91.	1.4	16
113	Relaxation processes of electronically excited trimethylamine. II. Collision induced fluorescence enhancement and quenching. Chemical Physics, 1980, 49, 95-106.	1.9	15
114	Laserâ€induced fluorescence detection of ClO radicals at 167â€“180 nm. Journal of Chemical Physics, 1994, 101, 8262-8263.	3.0	15
115	Relaxation Processes of Translationally Hot O(1D) by Collisions with O2. Journal of Physical Chemistry A, 2000, 104, 3894-3899.	2.5	15
116	Kinetics of the reactions of Clâ^—(2P1/2) and Cl(2P3/2) atoms with C 3 H 8 ,C 3 D 8 , n -C 4 H 10 , and i -C 4 H 10 at 298 K. Chemical Physics Letters, 2001, 346, 16-22.	2.6	15
117	CF3ONO2 yield in the gas phase reaction of CF3O2 radicals with NO. Chemical Physics Letters, 2004, 388, 242-247.	2.6	15
118	Transit pollution exposure monitoring using low-cost wearable sensors. Transportation Research, Part D: Transport and Environment, 2021, 98, 102981.	6.8	15
119	Pyrolytic and photolytic dissociation of trimethylgallium on Si and Au substrates. Journal of Applied Physics, 1991, 70, 462-468.	2.5	14
120	Hygroscopicity of aerosol particles and CCN activity of nearly hydrophobic particles in the urban atmosphere over Japan during summer. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7215-7234.	3.3	14
121	Vacuum ultraviolet photochemistry of CHFCl2 and CHFBr2: Absorption spectra and CHF(Aì†â€‰1Aâ€˜) radical formation. Journal of Chemical Physics, 1990, 92, 4277-4282.	3.0	13
122	Laser-Induced Fluorescence Instrument for the Detection of Tropospheric OH Radicals. Bulletin of the Chemical Society of Japan, 2002, 75, 711-717.	3.2	13
123	Diagnostics of surface wave excited Kr/O2 plasma for low-temperature oxidation processes. Journal of Applied Physics, 2007, 102, 013302.	2.5	13
124	Time domain, single rovibronic observation of laser-induced fluorescence from thionitrosyl (NS) B2.Pl.. The Journal of Physical Chemistry, 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 CH3OD and CD3OH. The Journal of Physical Chemistry, 1994, 98, 3777-3781.	2.9	12
126	Atmospheric chemistry of CF3CFHOCF3: kinetics of the reaction with Cl atoms and fate of CF3CFO() Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.6	12

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127	Hydrogen Atom Formation in the Photolysis of Acetone at 193 nmâ€. Journal of Physical Chemistry A, 2004, 108, 8002-8008.	2.5	12
128	Balloon-borne tropospheric CO2 observations over the equatorial eastern and western Pacific. Atmospheric Environment, 2018, 184, 24-36.	4.1	12
129	Reaction Processes of O(1D) with Fluoroethane Compounds. Journal of Physical Chemistry A, 2001, 105, 65-69.	2.5	11
130	Above-Threshold Dissociative Ionization in the Intermediate Intensity Regime. Physical Review Letters, 2001, 86, 2245-2248.	7.8	11
131	Dissociative ionization of ICl studied by ion imaging spectroscopy. Journal of Chemical Physics, 2002, 117, 1130-1138.	3.0	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 193â˜225 nm. Journal of Physical Chemistry A, 2004, 108, 2710-2714.	2.5	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.	3.1	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 NO2and Its Application to Kinetic Studies of N(4S) Reactions with NO and NO2. Journal of Physical Chemistry A, 2005, 109, 10897-10902.	2.5	10
137	Mechanism of the gas phase reaction of chlorine atoms with butanone. Chemical Physics Letters, 2007, 439, 274-279.	2.6	10
138	Thermal decomposition rate of N₂O₅ measured by cavity ringâ€down spectroscopy. International Journal of Chemical Kinetics, 2008, 40, 679-684.	1.6	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.	2.5	9
140	Sensitivity studies of the recent new data on O(¹<i>D</i>) quantum yields in O₃ Hartley band photolysis in the stratosphere. Atmospheric Chemistry and Physics, 2003, 3, 1293-1300.	4.9	9
141	Formation of a Hydrogen Atom from the Photodissociation of Hydrogen Peroxide at 193 nm. Bulletin of the Chemical Society of Japan, 1993, 66, 3166-3170.	3.2	8
142	Photofragment Imaging of CH3Br+from (CH3Br)2+at 355 nm. Journal of Physical Chemistry A, 1997, 101, 1227-1230.	2.5	8
143	Quantum yield for N(4S) production in the ultraviolet photolysis of N2O. Journal of Geophysical Research, 2003, 108, .	3.3	8
144	Nitrate Radical Quantum Yield from Peroxyacetyl Nitrate Photolysis. Journal of Physical Chemistry A, 2005, 109, 2552-2558.	2.5	8

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145	Measurements of Ammonium and Sodium salt Aerosol Particles Using a Laser-ionization Single-particle Aerosol Mass Spectrometer. Chemistry Letters, 2007, 36, 904-905.	1.3	8
146	Isotopic Variations Associated with North-South Displacement of the Baiu Front. Scientific Online Letters on the Atmosphere, 2013, 9, 187-190.	1.4	8
147	Reaction kinetics of O(1D) with CF3CN. Physical Chemistry Chemical Physics, 2000, 2, 5578-5583.	2.8	7
148	Laser-induced fluorescence study of the quenching of Cl(2P1/2) in collisions with N2 molecules and rare gas atoms. Chemical Physics Letters, 2005, 406, 259-262.	2.6	7
149	Thermalization cross sections of suprathermal N(4S) atoms in collisions with atmospheric molecules. Geophysical Research Letters, 2005, 32, .	4.0	7
150	Vacuum ultraviolet laser-induced fluorescence kinetic study of the reactions of Cl atoms with fluoroalkenes (CxF2x+1CHï£¾CH2,x = 1,2,4, 6, and 8) at low pressures. International Journal of Chemical Kinetics, 2007, 39, 328-332.	1.6	7
151	Pulsed laser photolysis vacuum UV laser-induced fluorescence kinetic study of the reactions of Cl(2P3/2) atoms with ethyl formate, n-propyl formate, and n-butyl formate. Chemical Physics Letters, 2008, 467, 70-73.	2.6	7
152	Kinetics and Mechanism of the Reaction of Chlorine Atoms with n-Pentanal. Journal of Physical Chemistry A, 2008, 112, 1741-1746.	2.5	7
153	Single Particle Analysis of Secondary Organic Aerosols Formed from 1,4-Cyclohexadiene Ozonolysis Using a Laser-Ionization Single-Particle Aerosol Mass Spectrometer. Bulletin of the Chemical Society of Japan, 2008, 81, 120-126.	3.2	7
154	Genesis of a Severe Dust Storm Over the Indian Subcontinent: Dynamics and Impacts. Earth and Space Science, 2022, 9, e2021EA001702.	2.6	7
155	Photodissociation of trimethylindium on Si(111) at 193 nm. Thin Solid Films, 1992, 218, 58-61.	1.8	6
156	Controlling the branching ratio of the photodissociation of aligned Cl2 at 404 nm. Chemical Physics Letters, 2001, 340, 83-88.	2.6	6
157	Electronic quenching of O(1D) by collisions with O2: A theoretical study in a collinear case. Journal of Chemical Physics, 2002, 116, 5551-5556.	3.0	6
158	Atmospheric chemistry of cyclohexanone: UV spectrum and kinetics of reaction with chlorine atoms. International Journal of Chemical Kinetics, 2008, 40, 223-229.	1.6	6
159	Fluorescence detection of atmospheric nitrogen dioxide using a blue light-emitting diode as an excitation source. Applied Optics, 2010, 49, 3762.	2.1	6
160	Development of a balloon-borne instrument for CO₂ vertical profile observations in the troposphere. Atmospheric Measurement Techniques, 2019, 12, 5639-5653.	3.1	6
161	OH (A 2Î£+) fragment emission from reaction of electronically excited Xe(6p) with H2O under free jet and bulb conditions. Chemical Physics Letters, 1992, 200, 624-630.	2.6	5
162	Atmospheric chemistry of CF3 CFHOCF3 : Reaction with OH radicals, atmospheric lifetime, and global warming potential. Journal of Geophysical Research, 2002, 107, ACH 4-1-ACH 4-6.	3.3	5

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163	Accurate Determination of the Absolute Quantum Yield for O(1D) Formation in the Photolysis of Ozone at 308 nm. Journal of Physical Chemistry A, 2004, 108, 10497-10501.	2.5	5
164	Optical Properties and Chemical Compositions of Iodine-Containing Aerosols Produced from the Atmospheric Photolysis of Methylene Iodide in the Presence of Ozone. Bulletin of the Chemical Society of Japan, 2009, 82, 910-913.	3.2	5
165	Preliminary Assessment of Methane Concentration Variation Observed by GOSAT in China. Advances in Meteorology, 2015, 2015, 1-11.	1.6	5
166	Ground-based observation of lightning-induced nitrogen oxides at a mountaintop in free troposphere. Journal of Atmospheric Chemistry, 2019, 76, 133-150.	3.2	5
167	Size-segregated chemical compositions of particulate matter including PM0.1 in northern Vietnam, a highly polluted area where notable seasonal episodes occur. Atmospheric Pollution Research, 2022, 13, 101478.	3.8	5
168	Photodissociation of Trimethylindium and Trimethylgallium on GaAs at 193 nm Studied by Angle-Resolved Photoelectron Spectroscopy. Japanese Journal of Applied Physics, 1993, 32, 3099-3105.	1.5	4
169	Isotope ^18O/^16O ratio measurements of water vapor by use of photoacoustic spectroscopy. Applied Optics, 1998, 37, 6558.	2.1	4
170	Quantum yield for hydrogen atom formation from H2O2 photolysis in the range 193-240 nm. International Journal of Chemical Kinetics, 2005, 37, 751-754.	1.6	4
171	Laboratory Study of O(1S) Formation Process in the Photolysis of O3 and its Atmospheric Implications. Journal of Atmospheric Chemistry, 2006, 53, 107-122.	3.2	4
172	PLPâ€“LIF study of the reactions of chlorine atoms with C2H2, C2H4, and C3H6 in 2â€“100 Torr of N2 diluent at 295 K. Chemical Physics Letters, 2010, 494, 174-178.	2.6	4
173	Variabilities in PM2.5 and Black Carbon Surface Concentrations Reproduced by Aerosol Optical Properties Estimated by In-Situ Data, Ground Based Remote Sensing and Modeling. Remote Sensing, 2021, 13, 3163.	4.0	4
174	Ground-based measurement of column-averaged mixing ratios of methane and carbon dioxide in the Sichuan Basin of China by a desktop optical spectrum analyzer. Journal of Applied Remote Sensing, 2017, 12, 1.	1.3	4
175	Collisional Excitation of CO by S(1D,3P) Atoms. The Journal of Physical Chemistry, 1995, 99, 12822-12828.	2.9	3
176	Continuous measurements of stable isotopes of carbon dioxide and water vapour in an urban atmosphere: isotopic variations associated with meteorological conditions. Isotopes in Environmental and Health Studies, 2017, 53, 646-659.	1.0	3
177	Observation of vertical profiles of NO, O₃, and VOCs to estimate their sources and sinks by inverse modeling in a Japanese larch forest. J Agricultural Meteorology, 2020, 76, 1-10.	1.5	3
178	Mobile Measurement of PM2.5 Based on an Individual in Ulaanbaatar City. International Journal of Environmental Research and Public Health, 2020, 17, 2701.	2.6	3
179	Development of an Analytical Method for the Detection of NO_z and Its Application to the Atmospheric Analysis at a Mountain Site. Bunseki Kagaku, 2018, 67, 333-340.	0.2	3
180	The some results of study on outdoor and indoor ambient PM_{2.5}. Proceedings of the Mongolian Academy of Sciences, 0, , 40-54.	0.0	3

#	Article	IF	Citations
181	Isotope ^18O/^16O ratio measurements of water vapor by use of the 950-nm wavelength region with cavity ring-down and photoacoustic spectroscopic techniques. Applied Optics, 2002, 41, 2349.	2.1	2
182	Reaction kinetics of O(1S) atom with atmospheric molecules. Chemical Physics Letters, 2004, 398, 163-167.	2.6	2
183	Kinetic study of the collisional quenching of spinâ€“orbitally excited atomic chlorine, Cl(2P1/2), by H2O, D2O, and H2O2. Chemical Physics Letters, 2006, 418, 15-18.	2.6	2
184	Vacuum UV laser-induced fluorescence study of the collisional removal of Br(2P1/2) atoms by small molecules. Chemical Physics Letters, 2008, 463, 50-53.	2.6	2
185	In situ measurement of CO₂ and water vapour isotopic compositions at a forest site using mid-infrared laser absorption spectroscopy. Isotopes in Environmental and Health Studies, 2016, 52, 603-618.	1.0	2
186	Internal Mixing of Pollutants for Submicron Particles Observed during Springtime in Japan. Asian Journal of Atmospheric Environment, 2009, 3, 27-41.	1.1	2
187	Assessment of the Sphericity of Submicrometer Particles Using a Single-particle Polar Nephelometer at an Urban Site in Japan. Aerosol and Air Quality Research, 2020, 20, 2474-2484.	2.1	2
188	Developing an insulation box with automatic temperature control for PM2.5 measurements in cold regions. Journal of Environmental Management, 2022, 311, 114784.	7.8	2
189	Primary processes and energy disposal in the reaction of S(1D) atoms with thiirane. Chemical Physics Letters, 1994, 220, 7-13.	2.6	1
190	X-ray and ultraviolet photoelectron spectroscopic study of 58.4 and 193 nm photodissociation of organometallic compounds adsorbed on substrates. Applied Surface Science, 1994, 79-80, 439-443.	6.1	1
191	Ion Formation Processes in Laser Ablation of Multicomponent Inorganic Particles Relevant to Single Particle Laser Analysis of Atmospheric Aerosols. Chemistry Letters, 2011, 40, 446-448.	1.3	1
192	Observation of column-averaged molar mixing ratios of carbon dioxide in Tokyo. Atmospheric Environment: X, 2019, 2, 100022.	1.4	1
193	Theoretical study on the enthalpies of adduct formation between alkyl iodides and chlorine atoms. Chemical Physics Letters, 2021, 762, 138140.	2.6	1
194	Development of a Fast Analytical Instrument for the Detection of NO, NO₂ and O₃ and Application at a Mountain Roadside. International Journal of Automotive Engineering, 2020, 11, 193-199.	0.5	1
195	<title>Isotopic branching ratios in reaction of O(1D) with hydrogen, propane, and 2-propylchloride, and in VUV photodissociation,</title>. , 1993, , .		0
196	Photodissociation of Adsorbed Dimethylcadmium at 193 nm. Japanese Journal of Applied Physics, 1996, 35, 5879-5881.	1.5	0
197	Detection of O(3P2) by Vacuum Ultraviolet Laser Spectroscopy. Chemistry Letters, 1997, 26, 77-78.	1.3	0
198	Accurate Determination of the Absolute Quantum Yield for O(1D) Formation in the Photolysis of Ozone at 308 nm.. ChemInform, 2005, 36, no.	0.0	0

#	Article	IF	Citations
199	Doppler Profiles of the Distribution of O(1D) Relaxing in Ne. , 2001, , 253-262.		0
200	Monitoring of dust particles in vacuum (II). Shinku/Journal of the Vacuum Society of Japan, 1986, 29, 419-423.	0.2	0
201	Development of a beam quality measurement system for excimer lasers.. The Review of Laser Engineering, 1989, 17, 128-135.	0.0	0
202	CHARACTERISING SEASONAL VARIATIONS AND SPATIAL DISTRIBUTION OF AMBIENT PM2.5 CONCENTRATION BASED ON SHORT-TERM MONITORING IN DARKHAN CITY. Proceedings of the Mongolian Academy of Sciences, 0, , 18-27.	0.0	0