Fuminori Misaizu

List of Publications by Citations

117 papers	2,185 citations	23 h-index	43 g-index
124 ext. papers	2,304 ext. citations	3.2 avg, IF	4.42 L-index

#	Paper	IF	Citations
117	Photodissociation study on Mg+(H2O)n, n=15: Electronic structure and photoinduced intracluster reaction. *Journal of Chemical Physics*, **1994**, 100, 1161-1170	3.9	155
116	Near threshold photoionization of silicon clusters in the 248146 nm region: Ionization potentials for Sin. *Journal of Chemical Physics*, **1993**, 99, 7807-7812	3.9	149
115	Reactions of Singly Charged Alkaline-Earth Metal Ions with Water Clusters: Characteristic Size Distribution of Product Ions. *Journal of the American Chemical Society*, **1995**, 117, 747-754	16.4	127
114	Molecular Orbital Studies of the Structures and Reactions of Singly Charged Magnesium Ion with Water Clusters, Mg+(H2O)n. *Journal of the American Chemical Society*, **1995**, 117, 755-763	16.4	123
113	Photodissociation of size-selected aquamagnesium (Mg+(H2O)n) ions for n = 1 and 2. *The Journal of Physical Chemistry*, **1992**, 96, 8259-8264		119
112	Photoionization of clusters of Cs atoms solvated with H2O, NH3 and CH3CN. *Chemical Physics Letters*, **1992**, 188, 241-246	2.5	116
111	Microscopic Solvation Process of Alkali Atoms in Finite Clusters: Photoelectron and Photoionization Studies of M(NH3)n and M(H2O)n (M = Li, Li-, Na-). *Journal of Physical Chemistry A*, **1997**, 101, 3078-3087	2.8	93
110	Photodissociation study on Ca+(H2O)n, n=16: Electron structure and photoinduced dehydrogenation reaction. *Journal of Chemical Physics*, **1996**, 104, 9768-9778	3.9	92
109	Photoionization of hypervalent molecular clusters: electronic structure and stability of NH4 (NH3)n. *Chemical Physics Letters*, **1994**, 229, 597-603	2.5	71
108	Infrared Photodissociation Spectroscopy of [Mg(H2O)1-4]+ and [Mg(H2O)1-4Ar]+. *Journal of Physical Chemistry A*, **2004**, 108, 5034-5040	2.8	56
107	Structures of [Mg(H2O)1,2]+ and [Al(H2O)1,2]+ ions studied by infrared photodissociation spectroscopy: evidence of [HOAlH]+ ion core structure in [Al(H2O)2]+. *Chemical Physics Letters*, **2004**, 390, 140-144	2.5	48
106	Isomer separation of iron oxide cluster cations by ion mobility mass spectrometry. *Journal of Physical Chemistry A*, **2014**, 118, 3899-905	2.8	44
105	Formation of protonated ammonia cluster ions: Two-color two-photon ionization study. *Journal of Chemical Physics*, **1993**, 98, 336-341	3.9	39
104	Structures of cobalt oxide cluster cations studied by ion mobility mass spectrometry. *Chemical Physics Letters*, **2013**, 588, 63-67	2.5	34
103	Electronic structure and reactivity of Mg+(H2O) n cluster ions. *Zeitschrift F Physik D-Atoms Molecules and Clusters*, **1993**, 26, 180-182		33
102	Formation of negative ions of water clusters by electron transfer from high-Rydberg atoms. *Chemical Physics Letters*, **1991**, 178, 369-373	2.5	31
101	A highly sensitive electron spectrometer for crossed-beam collisional ionization: A retarding-type magnetic bottle analyzer and its application to collision-energy resolved Penning ionization electron spectroscopy. *Review of Scientific Instruments*, **2000**, 71, 3042-3049	1.7	27

100	Photoionization and density functional study of clusters of alkali metal atoms solvated with acetonitrile molecules, M(CH3CN)n (M=Li and Na). *Chemical Physics Letters*, **1999**, 301, 356-364	2.5	26
99	Picosecond measurements of the vibrationally resolved proton-transfer rate of the jet-cooled 1-azacarbazole dimer. *Journal of Chemical Physics*, **1991**, 95, 4074-4080	3.9	26
98	Dissociation dynamics and multiphoton ionization mechanism of ammonia clusters. *The Journal of Physical Chemistry*, **1989**, 93, 7041-7044		26
97	Formation of negative cluster ions from (CO2)m in collision with high-Rydberg atoms. *Journal of Chemical Physics*, **1991**, 94, 243-249	3.9	25
96	Ion chemistry of 1H-1,2,3-triazole. *Journal of Physical Chemistry B*, **2008**, 112, 545-57	3.4	24
95	Compositions and Structures of Vanadium Oxide Cluster Ions VmOn(□) (m = 2-20) Investigated by Ion Mobility Mass Spectrometry. *Journal of Physical Chemistry A*, **2016**, 120, 3788-96	2.8	24
94	Photoelectron Spectroscopy of Mass-Selected Copper-Water Cluster Negative Ions. *Laser Chemistry* , **1995**, 15, 195-207		23
93	Isomer-resolved dissociation of small carbon cluster cations, C7+□10+. *Chemical Physics Letters*, **2012**, 523, 54-59	2.5	21
92	Structures and CO-Adsorption Reactivities of Nickel Oxide Cluster Cations Studied by Ion Mobility Mass Spectrometry. *Journal of Physical Chemistry C*, **2015**, 119, 11014-11021	3.8	21
91	Isomer-selected photoreactions of gas-phase cluster ions. *European Physical Journal D*, **2009**, 52, 59-62	1.3	21
90	Intracluster multiple trimeric cyclization of acrylonitrile clusters initiated by electron transfer from a potassium atom: Size-dependent pathways in metastable dissociation of K+(CH2=CHCN)n photoions. *Journal of Chemical Physics*, **2002**, 117, 5209-5220	3.9	21
89	Nascent internal state distributions of ZnH(X 2□) produced in the reactions of Zn(4 1P1) with some alkane hydrocarbons. *Journal of Chemical Physics*, **1994**, 101, 4803-4808	3.9	21
88	Structural transition of zinc oxide cluster cations: smallest tube like structure at (ZnO)6(+). *Journal of Chemical Physics*, **2013**, 139, 164308	3.9	20
87	Photoionization and photodissociation studies on aluminum-water clusters and their ions. *Zeitschrift F□ Physik D-Atoms Molecules and Clusters*, **1993**, 26, 177-179		19
86	Compositions and structures of niobium oxide cluster ions, NbO, (m = 2-12), revealed by ion mobility mass spectrometry. *Physical Chemistry Chemical Physics*, **2017**, 19, 24903-24914	3.6	16
85	PHOTOELECTRON SPECTROSCOPY OF MASS-SELECTED METAL-WATER CLUSTER NEGATIVE IONS: Cu□H2O)n AND Na□H2O)n. *Surface Review and Letters*, **1996**, 03, 405-410	1.1	16
84	Formation of negative ions from pyridine clusters in collision with high-Rydberg rare-gas atoms and slow electrons. *The Journal of Physical Chemistry*, **1989**, 93, 4263-4266		15
83	Geometrical Structures of Gas Phase Chromium Oxide Cluster Anions Studied by Ion Mobility Mass Spectrometry. *Journal of Physical Chemistry A*, **2017**, 121, 5605-5613	2.8	14

82	Intersystem crossing and intramultiplet mixing of excited Zn atoms by Xe. *Journal of Chemical Physics*, **1992**, 97, 3282-3288	3.9	14
81	Stable compositions and geometrical structures of titanium oxide cluster cations and anions studied by ion mobility mass spectrometry. *Journal of Chemical Physics*, **2016**, 144, 194305	3.9	14
80	Photofragment imaging from mass-selected ions using a reflectron mass spectrometer I. Development of an apparatus and application to Mg+Ar complex. *Chemical Physics Letters*, **2015**, 630, 111-115	2.5	13
79	Development of a linear-type double reflectron for focused imaging of photofragment ions from mass-selected complex ions. *Review of Scientific Instruments*, **2017**, 88, 053105	1.7	13
78	Photoionization of small silicon clusters: ionization potentials for Si2 to Si40. *Zeitschrift F Physik D-Atoms Molecules and Clusters*, **1993**, 26, 204-206		13
77	Mass spectrometric study of N2-adsorption on copper cluster cations formed by modulated pulsed power magnetron sputtering in aggregation cell. *Chemical Physics Letters*, **2017**, 682, 60-63	2.5	12
76	Temperature Dependence of Ion Mobility of Carbon Cluster Cations: Intermediate Region Connecting Low- and High-Field Conditions. *Bulletin of the Chemical Society of Japan*, **2011**, 84, 1342-1346	5.1	12
75	Photodissociation of Mg+-XCH3 (X=F, Cl, Br, and I) complexes. I. Electronic spectra and dissociation pathways. *Journal of Chemical Physics*, **2006**, 125, 094309	3.9	12
74	Photoionization and density functional theory study of clusters of acetone containing an alkali metal atom, M((CH3)2CO)n (M=Li, Na): intracluster electron transfer from metal to acetone in 1:1 complexes. *Chemical Physics Letters*, **2000**, 316, 442-448	2.5	12
73	ELECTRONIC STRUCTURE AND STABILITY OF NH4(NH3)n AND NH4(NH3)m(H2O)n. *Surface Review and Letters*, **1996**, 03, 353-357	1.1	12
72	Intracluster anionic oligomerization of acrylic ester molecules initiated by electron transfer from an alkali metal atom. *Journal of the American Chemical Society*, **2001**, 123, 683-90	16.4	11
71	Development of an Analysis Toolkit, AnalysisFMO, to Visualize Interaction Energies Generated by Fragment Molecular Orbital Calculations. *Journal of Chemical Information and Modeling*, **2019**, 59, 25-30	6.1	11
70	Compact non-rock-salt structures in sodium fluoride cluster ions at specific sizes revealed by ion mobility mass spectrometry. *Journal of Physical Chemistry A*, **2014**, 118, 9970-5	2.8	10
69	Multiple photofragmentation pathways with different recoil anisotropy from a metal-ion-ligand complex. *Physical Review Letters*, **2004**, 93, 193401	7.4	10
68	Anionic Oligomerization of Acrylonitrile Molecules Initiated by Intracluster Electron Transfer from Alkali Metal Atoms: Photoionization Mass Spectrometry of M(CH2CHCN)n (M = Li, Na, and K). *Journal of Physical Chemistry A*, **2000**, 104, 765-770	2.8	10
67	Small Carbon Nano-Onions: An Ion Mobility Mass Spectrometric Study. *Journal of Physical Chemistry C*, **2018**, 122, 5195-5200	3.8	9
66	Photodissociation of Mg+-XCH3 (X=F, Cl, Br, and I) complexes. II. Fragment angular and energy distributions. *Journal of Chemical Physics*, **2006**, 125, 094310	3.9	9
65	Observation of collisional ionization electron spectra of van der Waals clusters with metastable He*(2 3S) atoms: An evidence for autoionization from superexcited Ar clusters. *Journal of Chemical Physics*, **2000**, 112, 7062-7067	3.9	9

64	Negative-ion photoelectron spectroscopy of Cu clusters reacted with NO molecules. *European Physical Journal D*, **1999**, 9, 297-301	1.3	9
63	Negative ion formation from nitrous oxide clusters by impact of highly excited Rydberg krypton atoms and electrons. *The Journal of Physical Chemistry*, **1990**, 94, 8250-8254		9
62	Photofragment ion imaging from mass-selected MgBrCH complex: Dissociation mechanism following photoinduced charge transfer. *Journal of Chemical Physics*, **2017**, 146, 024301	3.9	8
61	Isomer-separated photodissociation of large sized silicon and carbon cluster ions: Drift tube experiment combined with a tandem reflectron mass spectrometer for Si +24 Si +27 and C +32 +38. *European Physical Journal D*, **2013**, 67, 1	1.3	8
60	Photodissociation spectroscopy of MgCH3I+: dissociation processes via charge transfer and/or chemical bond rupture. *Chemical Physics Letters*, **2003**, 382, 283-290	2.5	8
59	Photodissociation of Mg(CH2=CHCN)n+: Excited electronic states of n=1 and 2 and intracluster electron transfer for n=3 and 4. *Journal of Chemical Physics*, **2003**, 118, 5456-5464	3.9	8
58	Penning ionization electron spectroscopy of van der Waals clusters. *Journal of Electron Spectroscopy and Related Phenomena*, **2000**, 112, 115-128	1.7	8
57	Nascent rotational state distributions of ZnH (X 2) produced in the reactions of Zn (4 1P1) with simple alkane hydrocarbons. *Chemical Physics Letters*, **1993**, 214, 271-275	2.5	8
56	Conformation of K(Crown Ether) Complexes Revealed by Ion Mobility-Mass Spectrometry and Ultraviolet Spectroscopy. *Journal of Physical Chemistry A*, **2020**, 124, 9980-9990	2.8	8
55	Compositions and Isomer Separation of Palladium Oxide Cluster Cations Studied by Ion Mobility Mass Spectrometry. *Journal of Physical Chemistry C*, **2019**, 123, 17580-17587	3.8	7
54	Photofragment imaging from mass-selected ions using a reflectron mass spectrometer. II: Formation mechanism of MgF+ in the photodissociation of Mg+FCH3 complex. *Chemical Physics Letters*, **2015**, 630, 57-61	2.5	7
53	Infrared photodissociation spectroscopy of Al(+)(CH(3)OH)(n) (n = 1-4). *Journal of Physical Chemistry A*, **2007**, 111, 5995-6002	2.8	7
52	Nascent rotational and vibrational distributions in both products of the reaction Zn(4 1P1)+H2O-ZnH(X 2)+OH(X 2) *Journal of Chemical Physics*, **1993**, 99, 2715-2722	3.9	7
51	The intramultiplet mixing of Zn(43PJ) by collisions with 4He and 3He. *Journal of Chemical Physics*, **1990**, 93, 4112-4116	3.9	7
50	Structural Evolution of Iridium Oxide Cluster Anions IrnOm (n = 58) with Sequential Oxidation: Binding Mode of O Atoms and Ir Framework. *Journal of Physical Chemistry C*, **2019**, 123, 15301-15306	3.8	6
49	Adsorption of small molecules with the hydroxyl group on sodium halide cluster ions. *Journal of Physical Chemistry A*, **2010**, 114, 1432-6	2.8	6
48	Penning ionization electron spectroscopy of CO2 clusters in collision with metastable rare gas atoms. *Chemical Physics Letters*, **2000**, 327, 104-110	2.5	6
47	The intramultiplet mixing of Zn (43PJ) by collisions with Ar. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1991**, 24, 1639-1644	1.3	6

46	Stable Compositions and Structures of Copper Oxide Cluster Cations Cu O (= 2-8) Studied by Ion Mobility Mass Spectrometry. *ACS Omega*, **2018**, 3, 18705-18713	3.9	6
45	Visible photodissociation of the CO dimer cation: fast and slow dissociation dynamics in the excited state. *Physical Chemistry Chemical Physics*, **2019**, 21, 3083-3091	3.6	5
44	Photoionization mass spectroscopy of clusters of alkali metal atoms with methyl vinyl ketone and acrolein: intracluster oligomerization initiated by electron transfer from a metal atom. *International Journal of Mass Spectrometry*, **2002**, 216, 29-40	1.9	5
43	Intracluster electron transfer from a metal atom/cluster followed by anionic oligomerization of vinyl molecules. *European Physical Journal D*, **2001**, 16, 107-110	1.3	5
42	The intramultiplet relaxation of Cd(5 3P2) by H2 and D2. *Journal of Chemical Physics*, **1991**, 94, 7951-7957	3.9	5
41	Long-distance proton transfer induced by a single ammonia molecule: ion mobility mass spectrometry of protonated benzocaine reacted with NH. *Physical Chemistry Chemical Physics*, **2020** , 22, 8164-8170	3.6	5
40	Ion Imaging of MgI Photofragment in Ultraviolet Photodissociation of Mass-Selected MgICH Complex. *Journal of Physical Chemistry A*, **2018**, 122, 4948-4953	2.8	5
39	Geometrical Structures of Gas-Phase Cerium Oxide Cluster Cations Studied by Ion Mobility Mass Spectrometry. *Journal of Physical Chemistry C*, **2019**, 123, 16641-16650	3.8	4
38	Structures of Vanadium Oxide Cluster Ions up to Nanometer Diameter Investigated by Ion Mobility Mass Spectrometry. *Bulletin of the Chemical Society of Japan*, **2016**, 89, 1225-1229	5.1	4
37	Size-dependent structures of NanI+n-1 cluster ions with a methanol adsorbate: a combined study by photodissociation spectroscopy and density-functional theory calculation. *Journal of Chemical Physics*, **2005**, 123, 161101	3.9	4
36	Negative-ion photoelectron spectroscopy of acrylonitrile clusters containing a sodium atom. *European Physical Journal D*, **2003**, 24, 339-342	1.3	4
35	Intracluster Electron Transfer and Reactions in Alkali Metal□Methacrylate Clusters. *Journal of Physical Chemistry A*, **2001**, 105, 9649-9658	2.8	4
34	Metastable dissociation dynamics of molecular cluster ions. *Zeitschrift Fü Physik D-Atoms Molecules and Clusters*, **1991**, 20, 197-200		4
33	Negative-ion formation from CCl4 clusters in collision with highly excited Rydberg atoms and slow electrons. *Chemical Physics Letters*, **1988**, 143, 6-12	2.5	4
32	Time-of-flight mass spectrometric diagnostics for ionized and neutral species in high-power pulsed magnetron sputtering of titanium. *Japanese Journal of Applied Physics*, **2020**, 59, SHHB05	1.4	4
31	Intramolecular Dispersion Attraction in Tetraalkylammonium Cations Revealed by Cryogenic Ion Mobility Mass Spectrometry. *Journal of Physical Chemistry A*, **2020**, 124, 7999-8004	2.8	4
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29	Even-odd product variation of the C(n)(+) + D(2) (n = 4-9) reaction: complexity of the linear carbon cation electronic states. *Physical Chemistry Chemical Physics*, **2015**, 17, 24810-9	3.6	3

28	Structural Changes of the Trinuclear Copper Center in Bilirubin Oxidase upon Reduction. *Molecules*, **2018**, 24,	4.8	2
27	Photodissociation processes of a water-oxygen complex cation studied by an ion imaging technique. *Physical Chemistry Chemical Physics*, **2020**, 22, 16926-16933	3.6	2
26	Application of Ion Mobility-Mass Spectrometry to the Study of Ionic Clusters: Investigation of Cluster Ions with Stable Sizes and Compositions. *Mass Spectrometry*, **2014**, 3, S0043	1.7	2
25	Photoelectron spectroscopy and density functional theory calculation of Nan(CS2)□cluster negative ions for n=1 and 2. *Chemical Physics Letters*, **2004**, 389, 241-246	2.5	2
24	Photoionization Efficiency Curve Measurements of Alkali Metal Atom□Methyl Propiolate Clusters: Observation of Intracluster Cyclotrimerization Products. *Journal of Physical Chemistry A*, **2004**, 108, 5944-5949	2.8	2
23	Two-color 2 + 2 photon resonance-enhanced ionization of benzene-carbon tetrachloride binary clusters. *International Journal of Mass Spectrometry and Ion Processes*, **1990**, 102, 99-113		2
22	Visible photodissociation study of NO dimer cation using ion imaging technique combined with theoretical calculations. *Chemical Physics Letters*, **2020**, 739, 137022	2.5	2
21	Sequential growth of iridium cluster anions based on simple cubic packing. *Physical Chemistry Chemical Physics*, **2020**, 22, 17842-17846	3.6	2
20	Conformer Separation of Dibenzo-Crown-Ether Complexes with Na and K Ions Studied by Cryogenic Ion Mobility-Mass Spectrometry. *Journal of Physical Chemistry A*, **2021**, 125, 3718-3725	2.8	2
19	Delayed Discharge Bridging Two Sputtering Modes from Modulated Pulsed Power Magnetron Sputtering (MPPMS) to Deep Oscillation Magnetron Sputtering (DOMS). *Plasma*, **2021**, 4, 239-251	1.7	2
18	Photofragment ion imaging in vibrational predissociation of the HOAr complex ion. *Journal of Chemical Physics*, **2021**, 154, 174301	3.9	2
17	Structures of stoichiometric sodium oxide cluster cations studied by ion mobility mass spectrometry□*Chinese Journal of Chemical Physics*, **2019**, 32, 193-199	0.9	1
16	Structure Assignment and Separation of Isomers of Palladium Oxide Cluster Anions Studied by Ion Mobility Mass Spectrometry. *Journal of Physical Chemistry C*, **2020**, 124, 9604-9610	3.8	1
15	Extensive first-principles molecular dynamics study on Li encapsulation into C and its experimental confirmation. *Nanoscale*, **2018**, 10, 1825-1836	7.7	1
14	Intracluster cyclization reaction producing a benzene derivative: photoionization mass spectrometric study of alkali metal□methyl propiolate clusters. *International Journal of Mass Spectrometry*, **2004**, 232, 41-50	1.9	1
13	Photodissociation processes of O2 +(H2O) studied by ion imaging experiments. *Journal of Physics: Conference Series*, **2020**, 1412, 132039	0.3	1
12	Dependence of Optical Emission Spectra on Argon Gas Pressure during Modulated Pulsed Power Magnetron Sputtering (MPPMS). *Plasma*, **2021**, 4, 269-280	1.7	1
11	Structures of stable oxide cluster ions of first-row late transition metals: An ion mobility-mass spectrometric study **2019**,		1

10	A fast and robust trajectory surface hopping method: Application to the intermolecular photodissociation of a carbon dioxide dimer cation (CO). *Journal of Chemical Physics*, **2021**, 154, 164108	3.9	0
9	Development of a Plasma Diagnostic Method for High Power Pulsed Magnetron Sputtering Using a Reflectron-Type Time-of-Flight Mass Spectrometer. *Journal of the Mass Spectrometry Society of Japan*, **2022**, 70, 30-35	0.2	0
8	Structures of dibenzo-24-crown-8 complex with an NH4+ ion studied by cryogenic ion mobility-mass spectrometry. *Chemical Physics Letters*, **2022**, 794, 139510	2.5	0
7	Photoinduced dissociation reactions of silver fluoride cluster ions. *European Physical Journal D*, **2007**, 43, 41-44	1.3	
6	Electron distribution and intracluster reaction in [Nan(CS2)2]- negative ion clusters. *European Physical Journal D*, **2005**, 34, 89-92	1.3	
5	ADSORPTION REACTION OF POLAR ORGANIC MOLECULES ON ${rm Si}^+_n$ CLUSTER IONS. *International Journal of Modern Physics B*, **2005**, 19, 2502-2507	1.1	
4	Intramultiplet relaxation of Cd(53P2) induced by collisions with N2 and CO. *Chemical Physics*, **1991**, 158, 155-160	2.3	
3	Photoionization of Solvated Cs Atoms **1992**, 925-930		
2	Structures of Magnesium Oxide Cluster Cations Studied Using Ion Mobility Mass Spectrometry. *Journal of Physical Chemistry A*, **2020**, 124, 101-107	2.8	
1	Ion Mobility-Mass Spectrometry of Protonated Molecules：Intramolecular Proton Transfer by Bimolecular Reaction．*Journal of the Mass Spectrometry Society of Japan*, **2022**, 70, 36-42	0.2	