

Takashi Nagata

List of Publications by Year in descending order

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72
papers

1,519
citations

304743

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times ranked

1059
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of Laser-induced Size-reduction of Gold Nanoparticles as Studied by Nanosecond Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11751-11756.	2.6	102
2	Photoelectron spectroscopy of $(\text{CO}_2)_n^-$ revisited: core switching in the $2\frac{1}{2}n - \frac{1}{2}$ range. <i>Chemical Physics Letters</i> , 1997, 268, 429-433.	2.6	96
3	Photodissociation of Ar^+_3 cluster ion. <i>Chemical Physics Letters</i> , 1990, 171, 433-438.	2.6	62
4	Formation and ejection of cluster ions from a liquid beam of aniline-ethanol solution by laser photoionization. <i>Chemical Physics Letters</i> , 1992, 199, 615-620.	2.6	53
5	Photodissociation of Ar^+_n cluster ions. <i>Chemical Physics Letters</i> , 1991, 176, 526-530.	2.6	51
6	Partially Hydrated Electrons at the Air/Water Interface Observed by UV-Excited Time-Resolved Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 7551-7557.	13.7	48
7	Vibrational Sum Frequency Generation by the Quadrupolar Mechanism at the Nonpolar Benzene/Air Interface. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1654-1658.	4.6	47
8	Negative-ion photoelectron spectroscopy of $(\text{CS}_2)_n^-$: coexistence of electronic isomers. <i>Chemical Physics Letters</i> , 1997, 279, 179-184.	2.6	42
9	Rotational perturbations in the $\text{CN}(\text{B } 2^1\Sigma^+ - \text{X } 2^1\Sigma^+)$ tail band system. I. Analysis of the $\tilde{J} = 27$ and 30 levels of $\text{CN}(\text{A } 2^1\Pi)$. <i>Chemical Physics</i> , 1983, 80, 73-84.	1.9	41
10	Photodissociation of Ar^+_n cluster ions: Kinetic energy distributions of neutral fragments. <i>Journal of Chemical Physics</i> , 1993, 98, 290-300.	3.0	40
11	EXAFS study on interfacial structure between Pd cluster and n-octadecanethiolate monolayer: formation of mixed Pd-S interlayer. <i>Chemical Physics Letters</i> , 2003, 376, 26-32.	2.6	40
12	Rotational perturbations in the $\text{CN}(\text{B } 2^1\Sigma^+ - \text{X } 2^1\Sigma^+)$ tail band system. III. Molecular constants for the $\tilde{J} = 4$, $\tilde{J} = 4$, $\tilde{J} = 4$ states, $\tilde{J} = 2$, and $\tilde{J} = 2$ states. <i>Canadian Journal of Physics</i> , 1984, 62, 1586-1598.	1.1	39
13	Photodissociation dynamics of triatomic molecules. <i>Molecular Physics</i> , 1983, 50, 49-63.	1.7	35
14	Electronic isomers in $[(\text{CO}_2)_n\text{ROH}]^-$ cluster anions. I. Photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 1999, 110, 7846-7857.	3.0	35
15	Anion photoelectron spectroscopy of free $[\text{Au}_{25}(\text{SC}_{12}\text{H}_{25})_{18}]^-$. <i>Nanoscale</i> , 2017, 9, 13409-13412.	5.6	35
16	Electronic isomers in $[(\text{CO}_2)_n\text{ROH}]^-$ cluster anions. II. Ab initio calculations. <i>Journal of Chemical Physics</i> , 1999, 111, 6333-6344.	3.0	34
17	Communication: Broadband and ultrasensitive femtosecond time-resolved circular dichroism spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 143, 121102.	3.0	33
18	Microhydration Effects on the Intermediates of the $\text{S}_{\text{N}}2$ Reaction of Iodide Anion with Methyl Iodide. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4380-4383.	13.8	32

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19	Ab initio study of $(\text{CO}_2)_n^{\sim}$: structures and stabilities of isomers. <i>Chemical Physics Letters</i> , 2001, 340, 376-384.	2.6	29
20	Mechanism of ion ejection from a liquid beam following laser photoionization. <i>Chemical Physics Letters</i> , 1994, 218, 7-12.	2.6	27
21	\hat{b} -doublet populations in $\text{CH}(\text{A}_2^{\sim})$ produced in the 193 nm multiphoton dissociation of $(\text{CH}_3)_2\text{CO}$, $(\text{CD}_3)_2\text{CO}$, $(\text{CH}_3)_2\text{S}$ and CH_3NO_2 . <i>Chemical Physics</i> , 1984, 88, 163-170.	1.9	25
22	Reaction of Negatively-Charged Clusters of Carbon Dioxide with CH_3I : Formation of Novel Molecular Anion CH_3CO_2^- . <i>Journal of Physical Chemistry A</i> , 1997, 101, 5103-5110.	2.5	23
23	Low energy cluster ion-atom collision: Collisional energy transfer and complex formation of $\text{Ar}+n$ with ^{36}Ar . <i>Journal of Chemical Physics</i> , 1994, 100, 6458-6463.	3.0	22
24	Inhomogeneous solvation in an aniline-ethanol solution studied by laser photoionization of a liquid beam. <i>Chemical Physics Letters</i> , 1994, 218, 234-239.	2.6	21
25	Dissociation dynamics of $\text{Ar}+n$ ($n=3-16$) in collision with He and Ne. <i>Journal of Chemical Physics</i> , 1994, 101, 6625-6631.	3.0	21
26	Structural evolution in $(\text{CO}_2)_n$ clusters ($n < 103$) as studied by mass spectrometry. <i>Chemical Physics Letters</i> , 2002, 364, 127-132.	2.6	21
27	Absorption spectra of hydrogen cyanide and deuterium cyanide in the 130-80 nm range. <i>Chemical Physics</i> , 1981, 57, 45-53.	1.9	20
28	SOLVATION EFFECTS ON COLLISIONAL PROCESSES OF SIZE-SELECTED $\text{M}_2^- (\text{CO})_2_n$ CLUSTER IONS WITH SILICON SURFACE. <i>Surface Review and Letters</i> , 1996, 03, 901-904.	1.1	20
29	Structural Evolution of the $[(\text{CO})_2]_n^-(\text{H}_2\text{O})_m^{\sim}$ Cluster Anions: Quantifying the Effect of Hydration on the Excess Charge Accommodation Motif. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8942-8948.	2.5	19
30	Bottom-Up View of Water Network-Mediated CO_2 Reduction Using Cryogenic Cluster Ion Spectroscopy and Direct Dynamics Simulations. <i>Journal of Physical Chemistry A</i> , 2012, 116, 903-912.	2.5	19
31	Raman optical activity by coherent anti-Stokes Raman scattering spectral interferometry. <i>Optics Express</i> , 2013, 21, 13515.	3.4	19
32	Photodissociation of gas-phase $\text{I}^{\sim}3$: product branching in the visible and UV regions. <i>Chemical Physics Letters</i> , 2001, 350, 233-239.	2.6	17
33	Gas-Phase Reaction of Hydrated CO_2^- -Anion Radical with CH_3I . <i>Journal of Physical Chemistry A</i> , 2003, 107, 8476-8483.	2.5	17
34	Calculation of the potential energy curves for the low-lying doublet and quartet states of the CN radical. <i>Chemical Physics</i> , 1985, 98, 81-87.	1.9	16
35	Photoelectron spectroscopy of $(\text{CO}_2)_n\text{H}_2\text{O}^{\sim}$ ($2 \leq n \leq 28$) clusters. <i>Chemical Physics Letters</i> , 1992, 199, 205-210.		16
36	Ab initio study of $\text{CO}_2^{\sim} \dots \text{CO}_2^{\sim} \text{C}_2\text{O}_4^{\sim}$ isomerization. <i>Chemical Physics Letters</i> , 2001, 348, 461-468.	2.6	16

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37	Photodissociation of gas-phase I_3^+ : Comprehensive understanding of nonadiabatic dissociation dynamics. <i>Journal of Chemical Physics</i> , 2007, 126, 204311.	3.0	16
38	Raman optical activity spectroscopy by visible-excited coherent anti-Stokes Raman scattering. <i>Optics Letters</i> , 2015, 40, 4170.	3.3	16
39	Collision-induced reaction of $\text{Ar}+n$ with Kr. <i>Chemical Physics Letters</i> , 1993, 204, 219-225.	2.6	15
40	Structures of water-CO ₂ and methanol-CO ₂ cluster ions: $[\text{H}_2\text{O} \oplus (\text{CO}_2)_n]^+$ and $[\text{CH}_3\text{OH} \oplus (\text{CO}_2)_n]^+$ ($n=1 \sim 7$). <i>Journal of Chemical Physics</i> , 2009, 130, 154304.	3.0	15
41	Photodissociation of BrCN in the vacuum ultraviolet region. <i>Chemical Physics</i> , 1993, 175, 399-411.	1.9	14
42	Structures of $[(\text{CO}_2)_n(\text{H}_2\text{O})_m]^+$ ($n=1 \sim 4, m=1,2$) cluster anions. I. Infrared photodissociation spectroscopy. <i>Journal of Chemical Physics</i> , 2005, 122, 094303.	3.0	14
43	Formation of N_3O_3^+ anion in $(\text{NO})_n^+$: photoelectron spectroscopy and ab initio calculations. <i>Chemical Physics Letters</i> , 1998, 295, 416-422.	2.6	13
44	Photoelectron spectroscopy of acetone cluster anions, $\langle \text{mml:math altimg="si9.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" \rangle$	2.6	13
45	Formation and photodestruction of dual dipole-bound anion $(\text{H}_2\text{O})_6\{\text{e}^-\}\text{CH}_3\text{NO}_2$. <i>Journal of Chemical Physics</i> , 2009, 130, 224309.	3.0	12
46	Theoretical Study on the Excess Electron Binding Mechanism in the $[\text{CH}_3\text{NO}_2 \oplus (\text{H}_2\text{O})_2]^+$ ($n=1 \sim 6$) Anion Clusters. <i>Journal of Physical Chemistry A</i> , 2010, 114, 8939-8947.	2.5	12
47	Fluorescence polarization of a diatomic fragment following photodissociation of a triatomic precursor. <i>Molecular Physics</i> , 1990, 70, 1159-1162.	1.7	11
48	Laser-induced fluorescence and fluorescence depletion spectroscopy of SCCS^+ . <i>Journal of Chemical Physics</i> , 2003, 119, 7805-7813.	3.0	11
49	Quadrupolar mechanism for vibrational sum frequency generation at air/liquid interfaces: Theory and experiment. <i>Journal of Chemical Physics</i> , 2019, 151, 064701.	3.0	11
50	Nascent rotational distributions of $\text{N}+2(\text{X}^2\Sigma^+g)$ produced by electron-impact ionization of N_2 in a supersonic beam. <i>Journal of Chemical Physics</i> , 1987, 87, 6507-6512.	3.0	10
51	Photodissociation spectroscopy of ICN in the vacuum ultraviolet region. <i>Chemical Physics</i> , 1997, 218, 199-209.	1.9	10
52	Formation of O_2CNO^+ in the reaction of $(\text{CO}_2)_n^-$ with NO. <i>Chemical Physics Letters</i> , 2006, 433, 10-14.	2.6	10
53	An IR study of $(\text{CO}_2)_n^+$ ($n=3 \sim 8$) cluster ions in the $1000 \sim 3800 \text{ cm}^{-1}$ region. <i>Journal of Chemical Physics</i> , 2008, 129, 044308.	3.0	10
54	Formation of $\text{CN}(B^2\Sigma^+)$ by electron-impact dissociation of BrCN. <i>Chemical Physics Letters</i> , 1983, 95, 97-101.	2.6	8

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55	Formation of $[(\text{CO}_2)_n\text{CH}_3]^-$ anions in the reaction of $(\text{CO}_2)_n^-$ with CH_3I . <i>Chemical Physics Letters</i> , 1996, 251, 309-314.	2.6	8
56	Negative Charge Transport in Gaseous, Supercritical, and Liquid Carbon Dioxide. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10177-10184.	2.6	8
57	Structures of $(\text{CO}_2)_n^-$ molecular anion: Photoelectron spectroscopy and theoretical calculations. <i>Chemical Physics Letters</i> , 2008, 457, 31-35.	2.6	7
58	Structures of $[(\text{CO})_2(\text{CH}_3)_n\text{OH}]^-$ ($n = 1, 2$) Cluster Anions. <i>Journal of Physical Chemistry A</i> , 2008, 112, 4906-4913.	2.5	7
59	Polarization of $\text{CN}(B^2\Pi_u + X^2\Sigma_u^+)$ emission produced in the photodissociation of HCN and DCN at 121.6 nm. <i>Chemical Physics Letters</i> , 1981, 81, 391-394.	2.6	6
60	Polarization $\text{CN}(B^2\Pi_u + X^2\Sigma_u^+)$ emission produced in the electron-impact dissociation of HCN and DCN . <i>Chemical Physics</i> , 1982, 72, 281-285.	1.9	6
61	Rotational distributions of CO_2^+ ($X^1\Sigma_g^+$) produced by electron-impact ionization of supercooled CO_2 . <i>Chemical Physics Letters</i> , 1988, 151, 511-515.	2.6	5
62	Photodissociation spectroscopy of ClCN in the vacuum ultraviolet region. <i>Chemical Physics</i> , 2000, 255, 369-378.	1.9	4
63	Competitive electron capture in mixed clusters, $X(\text{HCN})_m$ ($X = \text{C}_2\text{H}_5\text{OH}, \text{CO}_2, \text{O}_2$, and SF_6). <i>Chemical Physics Letters</i> , 1994, 218, 1-6.	2.6	3
64	Photochemistry of $(\text{NO})_n^-$ as studied by photofragment mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2002, 220, 137-143.	1.5	3
65	Photoelectron Spectroscopy and Ab initio Calculations of Peroxy Form of SO_4^- Anion. <i>Journal of Physical Chemistry A</i> , 2010, 114, 5640-5647.	2.5	2
66	Hydrogen-Bond Network Transformation in Water-Cluster Anions Induced by the Complex Formation with Benzene. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3571-3575.	4.6	2
67	Photoelectron Spectroscopy of Molecular Anion of Alq_3 : An Estimation of Reorganization Energy for Electron Transport in the Bulk. <i>ACS Omega</i> , 2018, 3, 15200-15204.	3.5	2
68	A Rydberg-atom ionization source for negative ion mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993, 123, 217-223.	1.8	1
69	Photoabsorption and photofragmentation studies of acetyloxy iodide anion $\text{CH}_3\text{CO}_2\text{I}^-$. <i>Chemical Physics Letters</i> , 1997, 280, 348-352.	2.6	1
70	Incorporation of ROH ($\text{R} = \text{CH}_3, \text{C}_2\text{H}_5$) on the Growth Process of the Hydrogen-Bond Network. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7360-7366.	2.5	0
71	Photoelectron Spectroscopy and Ab Initio Calculations of CS_3^- Isomers: Carbon Trisulfide and Carbon Disulfide S-Sulfide Anions. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6956-6962.	2.5	0
72	Geometry and Electronic Structure of Gas-Phase Cluster Ions.. <i>Shinku/Journal of the Vacuum Society of Japan</i> , 1992, 35, 683-690.	0.2	0