

Takashi Nagata

List of Publications by Year in descending order

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72
papers

1,519
citations

304743

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73
all docs

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docs citations

73
times ranked

1059
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Anion photoelectron spectroscopy of free [Au ₂₅ (SC ₁₂ H ₂₅) ₁₈] ⁺ . <i>Nanoscale</i> , 2017, 9, 13409-13412.	5.6	35
4	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
5	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
6	Communication: Broadband and ultrasensitive femtosecond time-resolved circular dichroism spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 143, 121102.	3.0	33
7	Raman optical activity spectroscopy by visible-excited coherent anti-Stokes Raman scattering. <i>Optics Letters</i> , 2015, 40, 4170.	3.3	16
8	Incorporation of ROH (R = CH ₃ , C ₂ H ₅ , ...) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 472 Td (2-C ₂ H ₅) ₂ on the Growth Process of the Hydrogen-Bond Network. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7360-7366.	2.5	0
9	Microhydration Effects on the Intermediates of the S _N ₂ Reaction of Iodide Anion with Methyl Iodide. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4380-4383.	13.8	32
10	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
11	Raman optical activity by coherent anti-Stokes Raman scattering spectral interferometry. <i>Optics Express</i> , 2013, 21, 13515.	3.4	19
12	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
13	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
14	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
15	Theoretical Study on the Excess Electron Binding Mechanism in the [CH ₃ NO ₂ (H ₂ O) _n] ⁻ (n = 1-6) Anion Clusters. <i>Journal of Physical Chemistry A</i> , 2010, 114, 8939-8947.	2.5	12
16	Structures of water-CO ₂ and methanol-CO ₂ cluster ions: [H ₂ O _n (CO ₂) _n] ⁺ and [CH ₃ OH _n (CO ₂) _n] ⁺ (n=1-7). <i>Journal of Chemical Physics</i> , 2009, 130, 154304.	3.0	15
17	Formation and photodestruction of dual dipole-bound anion (H ₂ O) ₆ {e ⁻ }CH ₃ NO ₂ . <i>Journal of Chemical Physics</i> , 2009, 130, 224309.	3.0	12
18	Structural Evolution of the [(CO ₂) _n (H ₂ O)] ⁻ 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

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19	Structures of $(\text{CO}_2)_n^-$ ($n=3-8$) cluster ions in the 1000-3800 cm^{-1} region. Journal of Chemical Physics, 2008, 129, 044308.	2.6	7
20	Structures of $(\text{CO}_2)_n^-$ ($n=3-8$) cluster ions in the 1000-3800 cm^{-1} region. Journal of Chemical Physics, 2008, 129, 044308.	2.5	7
21	An IR study of $(\text{CO}_2)_n^-$ ($n=3-8$) cluster ions in the 1000-3800 cm^{-1} region. Journal of Chemical Physics, 2008, 129, 044308.	3.0	10
22	Photodissociation of gas-phase I_3^- : Comprehensive understanding of nonadiabatic dissociation dynamics. Journal of Chemical Physics, 2007, 126, 204311.	3.0	16
23	Mechanism of Laser-induced Size-reduction of Gold Nanoparticles as Studied by Nanosecond Transient Absorption Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 11751-11756.	2.6	102
24	Photoelectron spectroscopy of acetone cluster anions, $(\text{C}_2\text{H}_5\text{O})_n^-$ ($n=1-4$). Journal of Physical Chemistry A, 2006, 110, 11751-11756.	2.6	13
25	Formation of O_2CNO^- in the reaction of $(\text{CO}_2)_n^-$ with NO. Chemical Physics Letters, 2006, 433, 10-14.	2.6	10
26	Structures of $(\text{CO}_2)_n(\text{H}_2\text{O})_m^-$ ($n=1-4, m=1,2$) cluster anions. I. Infrared photodissociation spectroscopy. Journal of Chemical Physics, 2005, 122, 094303.	3.0	14
27	Negative Charge Transport in Gaseous, Supercritical, and Liquid Carbon Dioxide. Journal of Physical Chemistry B, 2004, 108, 10177-10184.	2.6	8
28	EXAFS study on interfacial structure between Pd cluster and n-octadecanethiolate monolayer: formation of mixed Pd-S interlayer. Chemical Physics Letters, 2003, 376, 26-32.	2.6	40
29	Gas-Phase Reaction of Hydrated CO_2^- -Anion Radical with CH_3I . Journal of Physical Chemistry A, 2003, 107, 8476-8483.	2.5	17
30	Laser-induced fluorescence and fluorescence depletion spectroscopy of SCCS^- . Journal of Chemical Physics, 2003, 119, 7805-7813.	3.0	11
31	Photochemistry of $(\text{NO})_n^-$ as studied by photofragment mass spectrometry. International Journal of Mass Spectrometry, 2002, 220, 137-143.	1.5	3
32	Structural evolution in $(\text{CO}_2)_n$ clusters ($n < 103$) as studied by mass spectrometry. Chemical Physics Letters, 2002, 364, 127-132.	2.6	21
33	Ab initio study of $\text{CO}_2^- \rightarrow \text{CO}_2^+ \rightarrow \text{C}_2\text{O}_4^-$ isomerization. Chemical Physics Letters, 2001, 348, 461-468.	2.6	16
34	Photodissociation of gas-phase I_3^- : product branching in the visible and UV regions. Chemical Physics Letters, 2001, 350, 233-239.	2.6	17
35	Ab initio study of $(\text{CO}_2)_n^-$: structures and stabilities of isomers. Chemical Physics Letters, 2001, 340, 376-384.	2.6	29
36	Photodissociation spectroscopy of ClCN in the vacuum ultraviolet region. Chemical Physics, 2000, 255, 369-378.	1.9	4

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37	Electronic isomers in $[(\text{CO}_2)_n\text{ROH}]^-$ cluster anions. I. Photoelectron spectroscopy. Journal of Chemical Physics, 1999, 110, 7846-7857.	3.0	35
38	Electronic isomers in $[(\text{CO}_2)_n\text{ROH}]^-$ cluster anions. II. Ab initio calculations. Journal of Chemical Physics, 1999, 111, 6333-6344.	3.0	34
39	Formation of N_3O_3^- anion in $(\text{NO})_n^-$: photoelectron spectroscopy and ab initio calculations. Chemical Physics Letters, 1998, 295, 416-422.	2.6	13
40	Reaction of Negatively-Charged Clusters of Carbon Dioxide with CH_3I : Formation of Novel Molecular Anion CH_3CO_2^- . Journal of Physical Chemistry A, 1997, 101, 5103-5110.	2.5	23
41	Photodissociation spectroscopy of ICN in the vacuum ultraviolet region. Chemical Physics, 1997, 218, 199-209.	1.9	10
42	Photoelectron spectroscopy of $(\text{CO}_2)_n^-$ revisited: core switching in the $2\frac{1}{2}$ - 16 range. Chemical Physics Letters, 1997, 268, 429-433.	2.6	96
43	Negative-ion photoelectron spectroscopy of $(\text{CS}_2)_n^-$: coexistence of electronic isomers. Chemical Physics Letters, 1997, 279, 179-184.	2.6	42
44	Photoabsorption and photofragmentation studies of acetyloxy iodide anion $\text{CH}_3\text{CO}_2\text{I}^-$. Chemical Physics Letters, 1997, 280, 348-352.	2.6	1
45	Formation of $[(\text{CO}_2)_n\text{CH}_3\text{I}]^-$ anions in the reaction of $(\text{CO}_2)_n^-$ with CH_3I . Chemical Physics Letters, 1996, 251, 309-314.	2.6	8
46	SOLVATION EFFECTS ON COLLISIONAL PROCESSES OF SIZE-SELECTED M_2^- ($\text{M}=\text{CO}$) $_2$ CLUSTER IONS WITH SILICON SURFACE. Surface Review and Letters, 1996, 03, 901-904.	1.1	20
47	Low energy cluster ion-atom collision: Collisional energy transfer and complex formation of $\text{Ar}+n$ with ^{36}Ar . Journal of Chemical Physics, 1994, 100, 6458-6463.	3.0	22
48	Competitive electron capture in mixed clusters, $\text{X}(\text{HCN})_m$ ($\text{X}=\text{C}_2\text{H}_5\text{OH}$, CO_2 , O_2 , and SF_6). Chemical Physics Letters, 1994, 218, 1-6.	2.6	3
49	Mechanism of ion ejection from a liquid beam following laser photoionization. Chemical Physics Letters, 1994, 218, 7-12.	2.6	27
50	Inhomogeneous solvation in an aniline-ethanol solution studied by laser photoionization of a liquid beam. Chemical Physics Letters, 1994, 218, 234-239.	2.6	21
51	Dissociation dynamics of $\text{Ar}+n$ ($n=3-16$) in collision with He and Ne. Journal of Chemical Physics, 1994, 101, 6625-6631.	3.0	21
52	Collision-induced reaction of $\text{Ar}+n$ with Kr. Chemical Physics Letters, 1993, 204, 219-225.	2.6	15
53	Photodissociation of BrCN in the vacuum ultraviolet region. Chemical Physics, 1993, 175, 399-411.	1.9	14
54	A Rydberg-atom ionization source for negative ion mass spectrometry. International Journal of Mass Spectrometry and Ion Processes, 1993, 123, 217-223.	1.8	1

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55	Photodissociation of Ar ⁿ⁺ cluster ions: Kinetic energy distributions of neutral fragments. Journal of Chemical Physics, 1993, 98, 290-300.	3.0	40
56	Photoelectron spectroscopy of (CO ₂) _n H ₂ O ⁺ (2 ≤ n ≤ 8) clusters. Chemical Physics Letters, 1992, 199, 205-210.	2.0	16
57	Formation and ejection of cluster ions from a liquid beam of aniline-ethanol solution by laser photoionization. Chemical Physics Letters, 1992, 199, 615-620.	2.6	53
58	Geometry and Electronic Structure of Gas-Phase Cluster Ions.. Shinku/Journal of the Vacuum Society of Japan, 1992, 35, 683-690.	0.2	0
59	Photodissociation of Ar ⁿ⁺ cluster ions. Chemical Physics Letters, 1991, 176, 526-530.	2.6	51
60	Photodissociation of Ar ³⁺ cluster ion. Chemical Physics Letters, 1990, 171, 433-438.	2.6	62
61	Fluorescence polarization of a diatomic fragment following photodissociation of a triatomic precursor. Molecular Physics, 1990, 70, 1159-1162.	1.7	11
62	Rotational distributions of CO ₂ ⁺ (X̂ _f 2̂ _g) produced by electron-impact ionization of supercooled CO ₂ . Chemical Physics Letters, 1988, 151, 511-515.	2.6	5
63	Nascent rotational distributions of N ₂ ⁺ (X̂ _g 2̂ _g) produced by electron-impact ionization of N ₂ in a supersonic beam. Journal of Chemical Physics, 1987, 87, 6507-6512.	3.0	10
64	Calculation of the potential energy curves for the low-lying doublet and quartet states of the CN radical. Chemical Physics, 1985, 98, 81-87.	1.9	16
65	̂-doublet populations in CH(A ₂ ⁺) produced in the 193 nm multiphoton dissociation of (CH ₃) ₂ CO, (CD ₃) ₂ CO, (CH ₃) ₂ S and CH ₃ NO ₂ . Chemical Physics, 1984, 88, 163-170.	1.9	25
66	Rotational perturbations in the CN(B ² ̂ _g + X ² ̂ _g) tail band system. III. Molecular constants for the ⁴ ̂ _g , ⁴ ̂ _g + ⁴ ̂ _g , ⁴ A ² ̂ _g + ⁴ ̂ _g , and X ² ̂ _g + ⁴ ̂ _g states. Canadian Journal of Physics, 1984, 62, 1586-1598.	1.1	39
67	Formation of CN(B ₂ ⁺) by electron-impact dissociation of BrCN. Chemical Physics Letters, 1983, 95, 97-101.	2.6	8
68	Rotational perturbations in the CN (B 2̂ _g + X 2̂ _g) tail band system. I. Analysis of the J... = 27 and 30 levels of CN (A 2̂ _g). Chemical Physics, 1983, 80, 73-84.	1.9	41
69	Photodissociation dynamics of triatomic molecules. Molecular Physics, 1983, 50, 49-63.	1.7	35
70	Polarization CN(B ₂ ⁺ + X ₂ ⁺) emission produced in the electron-impact dissociation of HCN and DCN. Chemical Physics, 1982, 72, 281-285.	1.9	6
71	Absorption spectra of hydrogen cyanide and deuterium cyanide in the 130-80 nm range. Chemical Physics, 1981, 57, 45-53.	1.9	20
72	Polarization of CN (B ₂ ⁺ + X ₂ ⁺) emission produced in the photodissociation of HCN and DCN at 121.6 nm. Chemical Physics Letters, 1981, 81, 391-394.	2.6	6