

Hidetoshi Kato

List of Publications by Year in descending order

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85
papers

1,309
citations

411340

20
h-index

488211

31
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85
all docs

85
docs citations

85
times ranked

843
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic diversity, structure, and demography of <i>Pandanus boninensis</i> (Pandanaeae) with sea drifted seeds, endemic to the Ogasawara Islands of Japan: Comparison between young and old islands. <i>Molecular Ecology</i> , 2020, 29, 1050-1068.	2.0	15
2	DNA Barcoding Reveals Evolutionary Changes in Host Specificity of a Parasitic Plant, <i>Orobanche boninsimae</i> (Orobanchaceae), Endemic to the Bonin (Ogasawara) Islands. <i>Pacific Science</i> , 2020, 74, 87.	0.2	1
3	Strong genetic structure revealed by microsatellite variation in <i>Callicarpa</i> species endemic to the Bonin (Ogasawara) Islands. <i>Journal of Plant Research</i> , 2019, 132, 759-775.	1.2	3
4	Changes in site-specific shape resonances in nitrogen K-shell photoionization of N ₂ O induced by vibrational excitation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 065402.	0.6	1
5	Pollination and reproduction of <i>Psychotria homalosperma</i> , an endangered distylous tree endemic to the oceanic Bonin (Ogasawara) Islands. <i>Plant Species Biology</i> , 2018, 33, 16-27.	0.6	10
6	Comparison of floral traits and pollinator assemblages of insular and mainland varieties of <i>Lilium auratum</i> . <i>Plant Species Biology</i> , 2018, 33, 276-288.	0.6	3
7	Development of microsatellite markers for <i>Callicarpa subpubescens</i> (Lamiaceae), an endemic species of the Bonin Islands. <i>Journal of Forest Research</i> , 2018, 23, 393-397.	0.7	2
8	Genetic variation of pantropical <i>Terminalia catappa</i> plants with sea-drifted seeds in the Bonin Islands: suggestions for transplantation guidelines. <i>Plant Species Biology</i> , 2017, 32, 13-24.	0.6	6
9	Change in resonance parameters of a linear molecule as it bends: Evidence in electron-impact vibrational transitions of hot COS and CO ₂ molecules*. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	2
10	Measuring electron-impact cross sections of water: elastic scattering and electronic excitation of the 3B ₁ and 1B ₁ states. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	22
11	Scaled plane-wave Born cross sections for atoms and molecules. <i>Reviews of Modern Physics</i> , 2016, 88, .	16.4	118
12	Studies on Ge ⁴⁺ Valence and Rydberg States by Electron Impact Spectroscopy and Ab Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9170-9177.	1.1	2
13	Development of an X-ray tube for irradiation experiments using a field emission electron gun. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 807, 41-46.	0.7	10
14	Crossed-beam experiment for the scattering of low- and intermediate-energy electrons from BF ₃ : A comparative study with XF ₃ (X = C, N, and CH) molecules. <i>Journal of Chemical Physics</i> , 2015, 143, 024313.	1.2	7
15	Stable and high current density electron emission using coniferous carbon nano-structured emitter. <i>Diamond and Related Materials</i> , 2015, 55, 41-44.	1.8	10
16	Measurements of ultra-low-energy electron scattering cross sections of atoms and molecules. , 2014, , .		3
17	Total cross sections for electron scattering from He and Ne at very low energies. <i>Physical Review A</i> , 2014, 89, .	1.0	17
18	Ge ³⁺ Valence and Rydberg States As Probed by Electron Energy Loss Spectroscopy and Ab Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10955-10966.	1.1	6

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19	Elastic differential cross sections for C4F6 isomers in the 1.5â€“200 eV energy electron impact: Similarities with six fluorine containing molecules and evidence of F-atom like scattering. Journal of Chemical Physics, 2014, 141, 124302.	1.2	9
20	Fabrication and low-power RF test of C-band RF gun. Nuclear Instruments & Methods in Physics Research B, 2014, 331, 27-30.	0.6	1
21	Resolution of a significant discrepancy in the electron impact excitation of the $3s^2 3p^2$ $^3P^o_1$ level in neon for incident energies between 20 and 300 eV. Journal of Chemical Physics, 2013, 139, 184301.	1.2	9
22	Studies of low-lying triplet states in 1,3-C4F6, c-C4F6 and 2-C4F6 by electron energy-loss spectroscopy and ab initio calculations. Chemical Physics Letters, 2013, 574, 32-36.	1.2	5
23	Electron impact excitation of the low-lying $3s[3/2]1$ and $3s^2[1/2]1$ levels in neon for incident energies between 20 and 300 eV. Journal of Chemical Physics, 2013, 139, 184301.	1.2	10
24	Hidden double excitations in the oxygen inner-shell ionization continuum of CO. New Journal of Physics, 2013, 15, 033003.	1.2	2
25	Cross sections for elastic scattering of electrons by CF3Cl, CF2Cl2, and CFCI3. Journal of Chemical Physics, 2013, 138, 214305.	1.2	12
26	A comprehensive and comparative study of elastic electron scattering from OCS and CS2 in the energy region from 1.2 to 200 eV. Journal of Chemical Physics, 2013, 138, 054302.	1.2	21
27	Elastic cross sections for electron scattering from GeF4: Predominance of atomic-F in the high-energy collision dynamics. Journal of Chemical Physics, 2012, 136, 134313.	1.2	38
28	Electronic Excitation to Singlet States of 1,3-C ₄ F ₆ , c-C ₄ F ₆ and 2-C ₄ F ₆ by Electron Impact - Electron Energy-Loss Spectroscopy and ab Initio Calculations. Journal of Physical Chemistry A, 2012, 116, 10529-10538.	1.1	9
29	Electron impact excitation of higher energy states of molecular oxygen in the atmosphere of Europa. European Physical Journal D, 2012, 66, 1.	0.6	8
30	Cross section data sets for electron collisions with H2, O2, CO, CO2, N2O and H2O. European Physical Journal D, 2012, 66, 1.	0.6	55
31	A study of electron interactions with silicon tetrafluoride: elastic scattering and vibrational excitation cross sections. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 095204.	0.6	28
32	Ultra-low-energy electron scattering cross section measurements of Ar, Kr and Xe employing the threshold photoelectron source. European Physical Journal D, 2012, 66, 1.	0.6	13
33	Electronic States of F ₂ CO as Studied by Electron Energy-Loss Spectroscopy and ab Initio Calculations. Journal of Physical Chemistry A, 2011, 115, 2708-2718.	1.1	11
34	Metastable states in NO2+ probed with Auger spectroscopy. Physical Chemistry Chemical Physics, 2011, 13, 18436.	1.3	4
35	Differential elastic electron scattering cross sections for CCl4 by 1.5â€“100 eV energy electron impact. Journal of Chemical Physics, 2011, 135, 234309.	1.2	20
36	Electron excitation of the Schumann-Runge continuum, longest band, and second band electronic states in O2. Journal of Chemical Physics, 2011, 134, 064311.	1.2	24

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37	A study of electron scattering from benzene: Excitation of the 1B _{1u} , 3E _{2g} , and 1E _{1u} electronic states. Journal of Chemical Physics, 2011, 134, 134308.	1.2	29
38	Vibrational excitation functions for inelastic and superelastic electron scattering from the ground electronic state in hot N ₂ O. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 195208.	0.6	3
39	High-resolution total-cross-section measurements for electron scattering from Ar, Kr, and Xe employing a threshold-photoelectron source. Physical Review A, 2011, 84, .	1.0	42
40	Symmetry and vibrationally resolved absorption spectra near the K _α edges of N ₂ O: Experiment and theory. Physical Review A, 2011, 83, .	1.0	1
41	The vibrational excitation of hot molecules by low energy electron impact. Journal of Physics: Conference Series, 2010, 204, 012002.	0.3	4
42	Threshold photoelectron source for the study of low-energy electron scattering: Total cross section for electron scattering from krypton in the energy range from 14 ÅeV to 20 ÅeV. Physical Review A, 2010, 82, .	1.0	16
43	Selective vibrational excitation in the resonant Auger decay following core-to- transitions in. Journal of Electron Spectroscopy and Related Phenomena, 2010, 181, 129-134.	0.8	1
44	Substitution effects in elastic electron collisions with CH ₃ X (X=F, Cl, Br, I) molecules. Journal of Chemical Physics, 2010, 132, 074309.	1.2	31
45	Bending-induced diminution of shape resonances in the core-level absorption region of hot CO ₂ and N ₂ O. New Journal of Physics, 2010, 12, 123017.	1.2	3
46	Elastic Cross Sections for Electron Collisions with Molecules Relevant to Plasma Processing. Journal of Physical and Chemical Reference Data, 2010, 39, 033106.	1.9	36
47	Resonant vibrational excitation of CH ₃ X (X = F, Cl, Br and I) by low-energy electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 065205.	0.6	11
48	Elastic electron scattering from CF ₃ X (X = F, Cl, Br and I) by low-energy electron impact. Physical Review A, 2010, 81, .	1.0	16
49	Electron impact excitation heating rates in the atmosphere of Titan. Journal of Geophysical Research, 2010, 115, .	3.3	9
50	Valence photoelectron spectroscopy of N ₂ and CO: Recoil-induced rotational excitation, relative intensities, and atomic orbital composition of molecular orbitals. Journal of Chemical Physics, 2010, 133, 174312.	1.2	14
51	A-band methyl halide dissociation via electronic curve crossing as studied by electron energy loss spectroscopy. Journal of Chemical Physics, 2010, 133, 054304.	1.2	14
52	Benchmark Integral Cross Sections for Electron Impact Excitation of the n = 2 States in Helium. Plasma Science and Technology, 2010, 12, 348-352.	0.7	5
53	Benchmarking electronic-state excitation cross sections for electron-N ₂ collisions. Photoelectron-recoil-induced rotational excitation of the N ₂ collisions.	1.0	11
54	Benchmarking electronic-state excitation cross sections for electron-N ₂ collisions. Photoelectron-recoil-induced rotational excitation of the N ₂ collisions.	1.0	32

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55	Benchmark differential cross sections for electron scattering from the ground electronic state in hot helium at near-ionization-threshold energies. C_{6+} Physical Review A, 2009, 79, .	1.0	21
56	Electron and positron scattering from the benzene derivative benzotrifluoride: Total and vibrational excitation cross sections. Physical Review A, 2009, 79, .	1.0	5
57	Cross sections for electron impact excitation of the $\hat{1}$ and $\hat{1}+$ electronic states in N ₂ O. Journal of Chemical Physics, 2009, 131, 114307.	1.2	31
58	Benchmark differential cross sections for electron impact excitation of the $n=2$ states in helium at near-ionization-threshold energies. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 145202.	0.6	10
59	Excitation of the lowest lying σ , π , and electronic states in water by 15eV electrons. International Journal of Mass Spectrometry, 2008, 271, 80-84.	0.7	27
60	Photoabsorption spectra of CF ₃ I and thermally dissociated CF ₃ I near the C 1s, I 3d and F 1s ionisation thresholds. Journal of Electron Spectroscopy and Related Phenomena, 2008, 164, 24-27.	0.8	4
61	Vibrational excitation functions for inelastic and superelastic electron scattering from the ground-electronic state in hot CO.  Chemical Physics Letters, 2008, 465, 31-35.	1.2	8
62	Integral cross sections for electron impact excitation of the $\hat{1}$ and $\hat{1}+$ electronic states in CO ₂ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 085203.	0.6	21
63	Study of the dissociation of nitrous oxide following resonant excitation of the nitrogen and oxygen K-shells. Journal of Chemical Physics, 2008, 128, 024306.	1.2	13
64	Electron-impact excitation of the B^1 electronic state of C_2 . Physical Review A, 2008, 77, .	1.0	25
65	Electron and positron scattering cross sections for propene and cyclopropane. Physical Review A, 2008, 77, .	1.0	10
66	Excitation of the C^1 electronic state of C_2 . Physical Review A, 2008, 77, .	1.0	26
67	Vibration-induced suppression of valence-Rydberg mixing in the O 1s Rydberg series in N ₂ O. Physical Review A, 2008, 77, .	1.0	11
68	A high-resolution study of resonant Auger decay processes in N ₂ O after core electron excitation from terminal nitrogen, central nitrogen and oxygen atoms to the 3 σ^* LUMO. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 3357-3365.	0.6	12
69	Cross sections for the electron impact excitation of the B ₁ , A ₁ and A ₁ dissociative electronic states of water. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 697-708.	0.6	36
70	Electron and positron scattering from the benzene derivative: Toluene. Physical Review A, 2007, 75, .	1.0	9
71	Cross sections for electron impact excitation of the vibrationally resolved $\hat{1}$ electronic state of carbon monoxide. Journal of Chemical Physics, 2007, 126, 064307.	1.2	47
72	Cross sections and oscillator strengths for electron-impact excitation of the $\hat{1}$ B ₁₁ electronic state of water. Journal of Chemical Physics, 2007, 126, 064306.	1.2	57

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73	Electron and positron scattering from 1,1-C ₂ H ₂ F ₂ . <i>Journal of Chemical Physics</i> , 2007, 126, 164309.	1.2	11
74	Excitation of the A ² Σ ⁺ , C ² Π and D ² Σ ⁺ Rydberg-electronic states in NO by 100eV electrons. <i>Chemical Physics Letters</i> , 2007, 444, 34-38.	1.2	12
75	Electron impact vibrational excitation of F ₂ CO molecules: A comparison with H ₂ CO. <i>Chemical Physics Letters</i> , 2006, 425, 1-5.	1.2	10
76	Angle-resolved ion yield spectroscopy for the 1s σ* 3Π excited states in hot N ₂ O molecules. <i>Chemical Physics Letters</i> , 2006, 428, 34-38.	1.2	13
77	Experimental Study of C ₃ F ₆ Electron Impact Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 8197-8199.	0.8	1
78	Experimental and theoretical elastic cross sections for electron collisions with the C ₃ H ₆ isomers. <i>Journal of Chemical Physics</i> , 2006, 124, 024323.	1.2	17
79	Probing the isomer, fluorination and bond effects in C ₃ H ₆ , cyclo-C ₃ H ₆ and C ₃ F ₆ molecules using electron impact. <i>European Physical Journal D</i> , 2005, 35, 249-255.	0.6	15
80	Individual fundamental mode dependence of H ₂ O vibrational excitation in the 6-8 eV resonance region by electron impact. <i>Journal of Chemical Physics</i> , 2005, 122, 014314.	1.2	7
81	Ant-colonized domatia on fruits of <i>Mucuna interrupta</i> (Leguminosae). <i>Journal of Plant Research</i> , 2004, 117, 319-21.	1.2	6
82	Molecular Systematics of the Genus <i>Uvularia</i> and Selected Liliales Based upon mat K and rbc L Gene Sequence Data. <i>Plant Species Biology</i> , 1998, 13, 129-146.	0.6	12
83	CENTRORADIALIS/TERMINAL FLOWER 1 gene homolog is conserved in <i>N. tabacum</i> , a determinate inflorescence plant. <i>Journal of Plant Research</i> , 1998, 111, 289-294.	1.2	5
84	Evolutionary Biology of <i>Trillium</i> and Related Genera (Trilliaceae) I. Restriction Site Mapping and Variation of Chloroplast DNA and its Systematic Implications. <i>Plant Species Biology</i> , 1995, 10, 17-29.	0.6	20
85	Evolutionary Biology of <i>Trillium</i> and Related Genera (Trilliaceae) II. Cladistic Analyses on Gross Morphological Characters, and Phylogeny and Evolution of the Genus <i>Trillium</i> . <i>Plant Species Biology</i> , 1995, 10, 169-183.	0.6	12