

Noriyuki Kouchi

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89
papers

1,247
citations

21
h-index

29
g-index

92
ext. papers

1,315
ext. citations

2.3
avg, IF

3.37
L-index

#	Paper	IF	Citations
89	Photoabsorption, photoionization, and neutral-dissociation cross sections of simple hydrocarbons in the vacuum ultraviolet range. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2002 , 123, 225-238	1.7	87
88	A high-flux 3-M normal incidence monochromator at beamline 20A of the Photon Factory. <i>Review of Scientific Instruments</i> , 1995 , 66, 2119-2121	1.7	65
87	Dissociation dynamics of superexcited molecular hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997 , 30, 2319-2344	1.3	61
86	Ionizing and nonionizing decays of superexcited acetylene molecules in the extreme-ultraviolet region. <i>Journal of Chemical Physics</i> , 1991 , 95, 4142-4153	3.9	45
85	Radiation effects of ion beams on polystyrene resist films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1988 , 33, 799-802	1.2	35
84	Photoabsorption, photoionization, and neutral-dissociation cross sections of C ₂ H ₆ and C ₃ H ₈ in the extreme-uv region. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996 , 79, 391-393	1.7	33
83	Neutral decay of double-holed doubly excited resonances of N ₂ . <i>Physical Review A</i> , 1992 , 46, 7019-7022	2.6	33
82	Doubly excited states of molecular hydrogen as studied by coincident electron-energy-loss spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996 , 29, 1829-1839	1.3	32
81	Single-hole one-electron superexcited states and doubly excited states of methane in the vacuum ultraviolet range as studied by dispersed fluorescence spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002 , 35, 4383-4400	1.3	32
80	(σ 2 λ) studies on doubly excited states of molecular hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004 , 37, 3909-3917	1.3	31
79	Theoretical formulation of the vacuum ultraviolet production efficiency in a plasma display panel. <i>Journal of Applied Physics</i> , 2000 , 88, 5605-5611	2.5	31
78	Extreme ultraviolet photodissociation of O ₂ via the free (c 4 λ)3s λ state as probed by dispersed vacuum ultraviolet fluorescence. <i>Chemical Physics Letters</i> , 1992 , 195, 298-302	2.5	30
77	Photoabsorption, photoionization, and neutral-dissociation cross sections of SiF ₄ , SiCl ₄ , and Si(CH ₃) ₄ in the extreme-ultraviolet range. <i>Journal of Chemical Physics</i> , 1993 , 99, 2487-2494	3.9	25
76	Autoionizing-resonance enhanced preferential photodissociation of CO ₂ in superexcited states. <i>Journal of Chemical Physics</i> , 1992 , 97, 2835-2842	3.9	25
75	Absolute measurements of photoabsorption cross sections, photoionization cross sections, and photoionization quantum yields of silane in the 13 λ 0 eV region. <i>Journal of Chemical Physics</i> , 1991 , 95, 1456-1460	3.9	25
74	De-excitation of H(2p) in a collision with a H ₂ molecule. <i>Journal of Chemical Physics</i> , 1993 , 99, 1637-1643	3.9	23
73	Extreme-ultraviolet photodissociation of N ₂ O in superexcited states. <i>Journal of Chemical Physics</i> , 1994 , 101, 5473-5483	3.9	23

72	Doubly excited states of water in the inner valence range. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004 , 37, 3127-3148	1.3	22
71	Doubly excited states of methane produced by photon and electron interactions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005 , 38, 565-578	1.3	21
70	Doubly excited states of ammonia in the vacuum ultraviolet range. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003 , 36, 3541-3554	1.3	21
69	Cross sections for deexcitation of He(2 3S, 2 1S and 2 1P) by SiH ₄ and GeH ₄ . <i>Chemical Physics Letters</i> , 1991 , 176, 173-177	2.5	21
68	Isotope effects in the dynamics of doubly excited states of molecular hydrogen and deuterium as studied by coincident electron-energy-loss spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998 , 31, 5183-5196	1.3	20
67	Electron-ion recombination rate constants in gaseous and liquid krypton. <i>Journal of Chemical Physics</i> , 1992 , 97, 2386-2391	3.9	20
66	Auger decay of molecular double core-hole and its satellite states: comparison of experiment and calculation. <i>Journal of Chemical Physics</i> , 2012 , 137, 224306	3.9	19
65	Dissociative single and double photoionization with excitation between 37 and 69 eV in N ₂ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000 , 33, 473-490	1.3	18
64	Deexcitation cross sections of Ar(3P ₂ , 3P ₁ , 3P ₀ , and 1P ₁) by CH ₄ , SiH ₄ , and GeH ₄ . <i>Journal of Chemical Physics</i> , 1992 , 96, 4372-4377	3.9	18
63	Effect of entanglement on the decay dynamics of a pair of H(2p) atoms due to spontaneous emission. <i>Physical Review A</i> , 2010 , 82,	2.6	17
62	Fluorescence lifetimes and excitation spectra of liquid alkanes measured by means of synchrotron radiation. <i>Journal of Chemical Physics</i> , 1985 , 83, 4405-4409	3.9	17
61	Photodissociation of CO: partial cross sections for neutral dissociative excitation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996 , 29, 3629-3650	1.3	16
60	Photoabsorption, photoionization, and neutral dissociation cross sections of dimethyl ether and ethyl methyl ether in the extreme-ultraviolet range. <i>Journal of Chemical Physics</i> , 1992 , 96, 4911-4917	3.9	15
59	Optical model calculation of the total Penning ionization cross sections for He(2 1P)Ar, Kr, and Xe. <i>Journal of Chemical Physics</i> , 1992 , 96, 8187-8193	3.9	15
58	Forbidden doubly excited states of molecular nitrogen dissociating into two neutral atoms in electron collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001 , 34, 4889-4900	1.3	14
57	Photodissociation dynamics of a hydrogen molecule via superexcited states as studied through the angular-momentum population of an excited hydrogen atom. <i>Journal of Chemical Physics</i> , 1994 , 100, 7036-7041	3.9	14
56	Absolute measurements of photoabsorption and photoionization cross sections of disilane in the 1300 eV region. <i>Journal of Chemical Physics</i> , 1991 , 95, 6188-6189	3.9	14
55	Deexcitation cross sections of He (2 3S, 2 1S, and 2 1P) by molecules containing group-IV elements. <i>Journal of Chemical Physics</i> , 1992 , 97, 3289-3296	3.9	14

54	Dissociation Dynamics of N ₂ O in Superexcited States As Probed by Two-Dimensional Fluorescence Spectroscopy. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 656-667	2.8	13
53	Doubly Excited Molecules in Electron Collisions as Studied by Coincident Electron-Energy-Loss Spectroscopy. <i>Physica Scripta</i> , 2004 , 110, 183	2.6	13
52	One-electron and multi-electron transitions observed in the excitation function of the dissociative photoionization excitation of. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996 , 29, 1711-1722	1.3	12
51	Doubly excited states of ammonia produced by photon and electron interactions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008 , 41, 195204	1.3	12
50	Multiply excited states of molecular nitrogen in the vacuum ultraviolet range as studied by (P2) method. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006 , 39, 1285-1297	1.3	12
49	Large pressure effect on the angular distribution of two Lyman-alpha photons emitted by an entangled pair of H(2p) atoms in the photodissociation of H ₂ . <i>Physical Review Letters</i> , 2009 , 103, 173002	2.4	11
48	Deexcitation of Ne(3P1) and Ne(3P2) in collisions with Ar, Kr, and Xe. <i>Journal of Chemical Physics</i> , 1997 , 107, 2386-2394	3.9	11
47	Theoretical study on the angular correlation of two Lyman- α photons generated by single-photon absorption of a hydrogen molecule. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007 , 40, 617-628	1.3	11
46	Doubly excited states of H ₂ as studied by angle-resolved electron energy loss spectroscopy in coincidence with detecting Lyman- α photons. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 065203	1.3	10
45	Photoabsorption, photoionization and neutral-dissociation cross sections of cyclopropane in the photon energy range of 10-24 eV. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999 , 32, 2719-2728	1.3	10
44	Formation of metastable atomic hydrogen in the 2s state from symmetry-resolved doubly excited states of molecular hydrogen. <i>Physical Review A</i> , 2011 , 84,	2.6	9
43	Differential cross sections for the dissociative single and double excitations resulting in H(2p) formation in electron-H ₂ collisions at 80 eV incident electron energy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010 , 43, 155208	1.3	9
42	The electron-energy-loss spectra of methane tagged with Lyman- α photons in the range of doubly excited states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007 , 40, 2459-2470	1.3	9
41	Deexcitation cross sections of Ne(3P2, 3P1, and 3P0) by molecules containing group-IV elements. <i>Journal of Chemical Physics</i> , 1993 , 98, 6190-6195	3.9	9
40	Angular correlation of a pair of Lyman- α photons produced in the photodissociation of H ₂ . <i>Physical Review A</i> , 2014 , 90,	2.6	8
39	Inner-valence excited and multiply excited states of molecular oxygen around the double-ionization potential as probed by a pair of fluorescence photons. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 055101	1.3	8
38	(P2) experiments for studying the multiply excited states of N ₂ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005 , 144-147, 147-149	1.7	8
37	Deexcitation of He(2 1P) in collisions with diatomic molecules. <i>Journal of Chemical Physics</i> , 1992 , 97, 3189-3186	3.1	8

36	Optical threshold excitation functions of Xe 5s,5p photoionization satellites near the 5s-1 Cooper minimum. <i>Physical Review A</i> , 1992 , 45, R15-R18	2.6	8
35	Angular-momentum population of excited H atoms produced by photodissociation of H ₂ . <i>Chemical Physics Letters</i> , 1992 , 190, 319-322	2.5	8
34	Free-ion yields, electron mobilities, and electron-ion recombination coefficients in liquid tetramethylsilane. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1993 , 327, 15-17	1.2	8
33	Pulse radiolysis studies of the lowest triplet state of benzene in the gas phase. <i>The Journal of Physical Chemistry</i> , 1978 , 82, 2373-2377		7
32	Dynamics of the Q ₂ ̄1(1) state studied from the isotope effect on the cross sections for the formation of the 2p atom pair in the photoexcitation of H ₂ and D ₂ . <i>Physical Review A</i> , 2016 , 93,	2.6	6
31	Doubly excited states resulting in H(2p) formation in the photoexcitation of water. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010 , 43, 215206	1.3	6
30	Doubly excited states of water as studied by electron energy loss spectroscopy in coincidence with detecting Lyman- α photons. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 175207	1.3	6
29	Predissociation of optically forbidden states in electron-hydrogen collisions as studied by coincident electron energy-loss spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999 , 32, 1335-1344	1.3	6
28	Deexcitation of He(2 1P) in a collision with Ne. <i>Journal of Chemical Physics</i> , 1994 , 100, 8072-8079	3.9	6
27	The generation of a pair of photons from superexcited states of nitric oxide around the double ionization potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 225101	1.3	5
26	Nanosecond Proton And Helium Ion Pulse Radiolysis Studies On Polystyrene 1986 ,		5
25	Collisional deexcitation of the excited rare gas atoms in resonant states: The Watanabe-Katsuura theory revisited. <i>Journal of Chemical Physics</i> , 2003 , 118, 70-74	3.9	4
24	Neutral dissociation processes of superexcited ethylene in the VUV region. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999 , 101-103, 65-68	1.7	4
23	Time-resolved investigation of the de-excitation of xenon excimer by SF ₆ and N ₂ excited with synchrotron radiation. <i>Chemical Physics Letters</i> , 1981 , 84, 454-457	2.5	4
22	A new spectroscopic method for resolving the electronic symmetry properties of the highly excited molecules produced in photoexcitation. <i>Review of Scientific Instruments</i> , 2010 , 81, 063108	1.7	3
21	Three-body neutral dissociations of a multiply excited water molecule around the double ionization potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012 , 45, 215204	1.3	3
20	Electron-ion recombination rate constants in dense gaseous argon and krypton: Effects of electric field strength and the addition of N ₂ or CH ₄ . <i>Journal of Chemical Physics</i> , 2001 , 114, 3554-3561	3.9	3
19	Reply to Comment on: Electron-ion recombination rate constants in gaseous and liquid krypton. <i>Journal of Chemical Physics</i> , 1993 , 98, 8348-8348	3.9	3

18	Breaking space-inversion symmetry in the dynamics of the doubly excited Q21 Π (1) state of HD. <i>Physical Review A</i> , 2019 , 99,	2.6	2
17	Cross sections for the formation of H(n = 2) atom via superexcited states in photoexcitation of methane and ammonia. <i>Journal of Chemical Physics</i> , 2013 , 139, 164307	3.9	2
16	Reply to Comment on Effect of entanglement on the decay dynamics of a pair of H(2p) atoms due to spontaneous emission <i>Physical Review A</i> , 2011 , 83,	2.6	2
15	Electron/ion recombination in dense gaseous Xe. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995 , 149-150, 451-467		2
14	Domination of dissociative double-electron excitation over dissociative single-electron excitation in electron collisions with NH ₃ . <i>Physical Review A</i> , 2017 , 96,	2.6	1
13	Dynamics of entangled H(2p) pair generated in the photodissociation of H ₂ . <i>Journal of Physics: Conference Series</i> , 2012 , 388, 012024	0.3	1
12	Differential cross sections for the double excitation in electron-CH ₄ collisions as a function of electron energy-loss and scattering angle. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 052023	0.3	1
11	Measurements of the fluorescence cross sections in the photoexcitation of CH ₄ , NH ₃ and H ₂ O in the vacuum ultraviolet range. <i>AIP Conference Proceedings</i> , 2005 ,	0	1
10	Oscillator Strength Distribution of Molecules in the Gas Phase in the Vacuum Ultraviolet Range and Dynamics of Singly Inner-Valence Excited and Multiply Excited States as Superexcited States 2010 , 9-26		1
9	Entangled pairs of 2p atoms produced in photodissociation of H ₂ and D ₂ . <i>Physical Review A</i> , 2019 , 99,	2.6	1
8	Formation of hot hydrogen atoms from superexcited states of acetylene. <i>Journal of Chemical Physics</i> , 2018 , 149, 244302	3.9	1
7	Electron correlation in double photoexcitation of H ₂ S as studied by H(2p) formation: Comparison with H ₂ O. <i>Physical Review A</i> , 2018 , 98,	2.6	1
6	Superexcited States of Molecules 2013 , 81-87		0
5	Symmetry-resolved spectroscopy by detection of a metastable hydrogen atom for investigating the doubly excited states of molecular hydrogen. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 022017	0.3	
4	Generation of a pair of photons through the three-body dissociation of a multiply excited water molecule around the double ionization potential. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 022021	0.3	
3	Multiply excited molecules in electron collisions as probed by energy and angle-resolved coincidence measurements between a scattered electron and a photon from a fragment atom. <i>Journal of Physics: Conference Series</i> , 2010 , 212, 012026	0.3	
2	Excitation function measurements of the dissociative photoionization excitation of N ₂ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996 , 79, 467-469	1.7	
1	Neutral dissociation of N ₂ O in superexcited states. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996 , 80, 25-27	1.7	

