

# Masamitsu Hoshino

## List of Publications by Year in descending order

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86  
papers

1,516  
citations

346980

22  
h-index

445137

33  
g-index

90  
all docs

90  
docs citations

90  
times ranked

1008  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic and inelastic scattering of low-energy electrons from gas-phase $\text{C}_{60}$ : elastic scattering angular distributions and coexisting solid-state features revisited. <i>European Physical Journal D</i> , 2021, 75, 1.	0.6	9
2	Revisiting the photoabsorption spectrum of $\text{NH}_3$ in the 5.4–10.8 eV energy region. <i>Journal of Chemical Physics</i> , 2019, 151, 184302.	1.2	16
3	Total cross-section for low-energy and very low-energy electron collisions with $\text{O}_2$ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 035201.	0.6	5
4	Absolute cross section measurements for the scattering of low- and intermediate-energy electrons from $\text{PF}_3$ . II. Inelastic scattering of vibrational and electronic excitations. <i>Journal of Chemical Physics</i> , 2018, 148, 084313.	1.2	3
5	Negative ion formation through dissociative electron attachment to the group IV tetrachlorides: Carbon tetrachloride, silicon tetrachloride and germanium tetrachloride. <i>International Journal of Mass Spectrometry</i> , 2018, 426, 12-28.	0.7	11
6	Changes in site-specific shape resonances in nitrogen K-shell photoionization of $\text{N}_2\text{O}$ induced by vibrational excitation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 065402.	0.6	1
7	Experimental scaling of plane-Born cross sections and <i>ab initio</i> assignments for electron-impact excitation and dissociation of $\text{XF}_4$ ( $X = \text{C}, \text{Si}, \text{and Ge}$ ) molecules. <i>Journal of Chemical Physics</i> , 2017, 146, 144306.	1.2	2
8	Absolute cross section measurements for the scattering of low- and intermediate-energy electrons from $\text{PF}_3$ . I. Elastic scattering. <i>Journal of Chemical Physics</i> , 2017, 147, 224308.	1.2	5
9	Change in resonance parameters of a linear molecule as it bends: Evidence in electron-impact vibrational transitions of hot $\text{COS}$ and $\text{CO}_2$ 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 $\tilde{A}^1\text{B}_1$ and $\tilde{A}^1\text{B}_1$ 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 $\text{GeF}_4$ Valence and Rydberg States by Electron Impact Spectroscopy and <i>Ab Initio</i> Calculations. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9170-9177.	1.1	2
13	Crossed-beam experiment for the scattering of low- and intermediate-energy electrons from $\text{BF}_3$ : A comparative study with $\text{XF}_3$ ( $X = \text{C}, \text{N}, \text{and CH}$ ) molecules. <i>Journal of Chemical Physics</i> , 2015, 143, 024313.	1.2	7
14	Electronic excitation of carbonyl sulphide ( $\text{COS}$ ) by high-resolution vacuum ultraviolet photoabsorption and electron-impact spectroscopy in the energy region from 4 to 11 eV. <i>Journal of Chemical Physics</i> , 2015, 142, 064303.	1.2	21
15	Electron and positron induced processes. <i>POSMOL 2013</i> . <i>European Physical Journal D</i> , 2014, 68, 1.	0.6	2
16	Total cross sections for electron scattering from He and Ne at very low energies. <i>Physical Review A</i> , 2014, 89, .	1.0	17
17	Elastic differential cross sections for $\text{C}_4\text{F}_6$ isomers in the 1.5–200 eV energy electron impact: Similarities with six fluorine containing molecules and evidence of F-atom like scattering. <i>Journal of Chemical Physics</i> , 2014, 141, 124302.	1.2	9
18	Negative ion formation through dissociative electron attachment to the group IV tetrabromides: Carbon tetrabromide, silicon tetrabromide and germanium tetrabromide. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 275-280.	0.7	6

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19	Resolution of a significant discrepancy in the electron impact excitation of the $3s^2 3p^2$ levels in neon for incident energies between 20 and 300 eV. Journal of Chemical Physics, 2013, 139, 184301.	1.2	9
20	Negative ion formation through dissociative electron attachment to the group IV tetrafluorides: Carbon tetrafluoride, silicon tetrafluoride and germanium tetrafluoride. International Journal of Mass Spectrometry, 2013, 339-340, 45-53.	0.7	22
21	Electron impact excitation of the low-lying $3s^2 3p^2$ and $3s^2 3p^2$ levels in neon for incident energies between 20 and 300 eV. Journal of Chemical Physics, 2013, 139, 184301.	1.2	10
22	Cross sections for elastic scattering of electrons by CF <sub>3</sub> Cl, CF <sub>2</sub> Cl <sub>2</sub> , and CFCI <sub>3</sub> . Journal of Chemical Physics, 2013, 138, 214305.	1.2	12
23	A comprehensive and comparative study of elastic electron scattering from OCS and CS <sub>2</sub> in the energy region from 1.2 to 200 eV. Journal of Chemical Physics, 2013, 138, 054302.	1.2	21
24	Double-slit experiment with a polyatomic molecule: vibrationally resolved C 1s photoelectron spectra of acetylene. New Journal of Physics, 2012, 14, 033012.	1.2	40
25	Elastic cross sections for electron scattering from GeF <sub>4</sub> : Predominance of atomic-F in the high-energy collision dynamics. Journal of Chemical Physics, 2012, 136, 134313.	1.2	38
26	Cross section data sets for electron collisions with H <sub>2</sub> , O <sub>2</sub> , CO, CO <sub>2</sub> , N <sub>2</sub> O and H <sub>2</sub> O. European Physical Journal D, 2012, 66, 1.	0.6	55
27	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
28	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
29	Differential elastic electron scattering cross sections for CCl <sub>4</sub> by 1.5–100 eV energy electron impact. Journal of Chemical Physics, 2011, 135, 234309.	1.2	20
30	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
31	Measurements of Total Cross Sections for Positron Scattering from He under Magnetic-Field-Free Conditions Using an Electrostatic High-Brightness Slow Positron Beam System. Journal of the Physical Society of Japan, 2011, 80, 064301.	0.7	14
32	Negative ion formation through dissociative electron attachment to GeH <sub>4</sub> : Comparative studies with CH <sub>4</sub> and SiH <sub>4</sub> . International Journal of Mass Spectrometry, 2011, 306, 51-56.	0.7	15
33	Dissociative electron attachment to carbonyl fluoride, F <sub>2</sub> CO. International Journal of Mass Spectrometry, 2011, 303, 125-128.	0.7	5
34	Elastic cross sections for electron scattering from iodomethane. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 045207.	0.6	15
35	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
36	Symmetry and vibrationally resolved absorption spectra near the Kedges of N <sub>2</sub> O: Experiment and theory. Physical Review A, 2011, 83, .	1.0	1

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37	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 eV to 20 eV. Physical Review A, 2010, 82, .	1.0	16
38	Substitution effects in elastic electron collisions with CH <sub>3</sub> X (X=F, Cl, Br, I) molecules. Journal of Chemical Physics, 2010, 132, 074309.	1.2	31
39	Bending-induced diminution of shape resonances in the core-level absorption region of hot CO <sub>2</sub> and N <sub>2</sub> O. New Journal of Physics, 2010, 12, 123017.	1.2	3
40	Elastic electron scattering from CF <sub>3</sub> H and CF <sub>3</sub> I. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 135205.	0.6	15
41	Resonant vibrational excitation of CH <sub>3</sub> 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
42	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
43	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
44	Photoelectron-recoil-induced rotational excitation of the $B^1\Sigma_u^+$ state in $\text{CH}_3\text{X}$ ( $X = \text{F, Cl, Br, I}$ ) by low-energy electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 065205.	1.0	32
45	Dynamic features of ion guiding by nanocapillaries in an insulating polymer. Physical Review A, 2009, 79, .	1.0	58
46	Absolute elastic differential cross sections for electron scattering by $\text{C}_6\text{H}_6$ . Physical Review A, 2009, 79, .	1.0	21
47	Electron and positron scattering from the benzene derivative benzotrifluoride: Total and vibrational excitation cross sections. Physical Review A, 2009, 79, .	1.0	5
48	Cross sections for electron impact excitation of the $C^1\text{S}$ and $D^1\text{S}^+$ electronic states in N <sub>2</sub> O. Journal of Chemical Physics, 2009, 131, 114307.	1.2	31
49	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
50	Excitation of the lowest lying $\text{H}_2\text{O}^+$ and electronic states in water by 15 eV electrons. International Journal of Mass Spectrometry, 2008, 271, 80-84.	0.7	27
51	Photoabsorption spectra of CF <sub>3</sub> I and thermally dissociated CF <sub>3</sub> 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
52	Vibrational excitation functions for inelastic and superelastic electron scattering from the ground-electronic state in hot $\text{CO}_2$ . Chemical Physics Letters, 2008, 465, 31-35.	1.2	8
53	Vibrationally resolved partial cross sections and asymmetry parameters for nitrogen K-shell photoionization of the NO molecule. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 085105.	0.6	11
54	A vibrationally resolved C 1s $\rightarrow$ 1Auger spectrum of CO <sub>2</sub> . Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 045103.	0.6	12

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55	Electron impact excitation of the $B^1\Sigma_u^+$ state of $N_2$ . Physical Review A, 2008, 77, .	1.0	25
56	Electron and positron scattering cross sections for propene and cyclopropane. Physical Review A, 2008, 77, .	1.0	10
57	Angle-resolved photoion yield and resonant Auger spectroscopy for the doubly excited Rydberg states above the $C^1\Sigma_u^+$ state of $N_2$ . Physical Review A, 2008, 77, .	1.0	9
58	Excitation of the $C^1\Sigma_u^+$ state of $N_2$ by resonant photoionization of the $N^1S$ state. Physical Review A, 2008, 77, .	1.0	26
59	Vibration-induced suppression of valence-Rydberg mixing in the $O_1s$ Rydberg series in $N_2O$ . Physical Review A, 2008, 77, .	1.0	11
60	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
61	Electron and positron scattering from the benzene derivative: Toluene. Physical Review A, 2007, 75, .	1.0	9
62	Electron transfer during the dissociation of $C^1\Sigma_u^+$ state of $N_2$ . Physical Review A, 2007, 75, .	1.0	8
63	Resonant photoionization of the $N^1S$ state of $N_2$ by resonant photoemission following $F^1\Sigma_u^+$ state of $N_2$ . Physical Review A, 2007, 75, .	1.0	28
64	Multielectron processes in close collisions of slow $Ne^{q+}$ ( $q=1-9$ ) ions with Ar atoms. Physical Review A, 2007, 75, .	1.0	2
65	Experimental and theoretical study of double-electron capture in collisions of slow $C^{4+}(1s2S1)$ with $He(1s2S1)$ . Physical Review A, 2007, 75, .	1.0	12
66	Low energy electron energy-loss spectroscopy of $CF_3X$ ( $X=Cl, Br$ ). Journal of Chemical Physics, 2007, 126, 024303.	1.2	13
67	Cross sections and oscillator strengths for electron-impact excitation of the $A^1\Sigma_u^+$ electronic state of water. Journal of Chemical Physics, 2007, 126, 064306.	1.2	57
68	Electronic Doppler effect in resonant Auger decay of CO molecules upon excitation near a shake-up $K$ -shell photoionization of the $N^1S$ state. Physical Review A, 2007, 76, .	1.0	7
69	Vibrationally resolved nitrogen K-shell photoelectron spectra of the dinitrogen oxide molecule: Experiment and theory. Chemical Physics Letters, 2007, 438, 14-19.	1.2	12
70	Experimental observation of neutral radical formation from $CH_4$ by electron impact in the threshold region. Physical Review A, 2006, 74, .	1.0	22
71	Analysis of the resonant Auger decay during ultrafast fragmentation of $CH_3F$ . AIP Conference Proceedings, 2006, .	0.3	2
72	Symmetry- and vibrationally-resolved C K-shell photoionization studies of $C_2H_2$ . Chemical Physics Letters, 2006, 421, 256-260.	1.2	17

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73	Angle-resolved ion yield spectroscopy for the $1s \rightarrow 3\sigma_g^*$ excited states in hot N <sub>2</sub> O molecules. Chemical Physics Letters, 2006, 428, 34-38.	1.2	13
74	Angular dependence of double electron capture in collisions of C <sup>4+</sup> with He. European Physical Journal D, 2006, 38, 59-64.	0.6	5
75	Role of the recoil effect in two-center interference in X-ray photoionization. Chemical Physics, 2006, 329, 329-337.	0.9	25
76	Quenching and restoring of the $\tilde{A}^2\Sigma^+$ cationic state in resonant Auger electron spectra of CO in the vicinity of the $O1s \rightarrow 2\pi^*$ resonance. Physical Review A, 2006, 74, .	1.0	10
77	Vibrationally resolved partial cross sections and asymmetry parameters for oxygen K-shell photoionization of the CO <sub>2</sub> molecule. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 3655-3663.	0.6	10
78	Vibrationally resolved partial cross sections and asymmetry parameters for carbon K-shell photoionization of the CO <sub>2</sub> molecule. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 3047-3056.	0.6	15
79	Multi-electron processes in large-angle scattering between slow Ne <sup>q+</sup> (q=1, 2 and 3) and Ar. Nuclear Instruments & Methods in Physics Research B, 2005, 235, 347-351.	0.6	1
80	Probing the isomer, fluorination and bond effects in C <sub>3</sub> H <sub>6</sub> , cyclo-C <sub>3</sub> H <sub>6</sub> and C <sub>3</sub> F <sub>6</sub> molecules using electron impact. European Physical Journal D, 2005, 35, 249-255.	0.6	15
81	Symmetry-Resolved Absorption Spectra of Vibrationally Excited CO <sub>2</sub> Molecules. Physical Review Letters, 2005, 95, 203002.	2.9	12
82	Effect of vibrations on C1s photoemission in formaldehyde in the shape resonance region. Physical Review A, 2005, 71, .	1.0	15
83	Site-selective ion production of the core-excited CH <sub>3</sub> F molecule probed by Auger-electron-ion coincidence measurements. Physical Review A, 2005, 72, .	1.0	47
84	Vibrational effects on the shape resonance energy in the K-shell photoionization spectra of CO. Physical Review A, 2003, 68, .	1.0	41
85	Shake-up and photoelectron-impact mechanisms of the satellite excitations in the molecular core level photoemission. AIP Conference Proceedings, 2003, , .	0.3	0
86	Electron scattering from N <sub>2</sub> O: absolute elastic scattering and vibrational excitation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 1687-1702.	0.6	35