## Noboru Watanabe

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The complete optical spectrum of liquid water measured by inelastic x-ray scattering. Proceedings of the United States of America, 2000, 97, 6264-6266.	7.1	177
2	Observation of a Molecular Frame(e,2e)Cross Section: An(e,2e+M)Triple Coincidence Study onH2. Physical Review Letters, 2005, 94, 213202.	7.8	79
3	Bethe Surface of Liquid Water Determined by Inelastic X-Ray Scattering Spectroscopy and Electron Correlation Effects. Bulletin of the Chemical Society of Japan, 1997, 70, 719-726.	3.2	75
4	Optical spectra of liquid water in vacuum uv region by means of inelastic x-ray scattering spectroscopy. Journal of Chemical Physics, 1998, 108, 823-825.	3.0	68
5	Vibrational effects on valence electron momentum distributions of ethylene. Journal of Chemical Physics, 2012, 137, 114301.	3.0	51
6	Observation of molecular frame (e,2e) cross section using an electron–electron-fragment ion triple coincidence apparatus. Journal of Electron Spectroscopy and Related Phenomena, 2004, 141, 83-93.	1.7	48
7	Anisotropy of hexagonal boron nitride core absorption spectra by xâ€ray Raman spectroscopy. Applied Physics Letters, 1996, 69, 1370-1372.	3.3	45
8	Coincidence Velocity Imaging Apparatus for Study of Angular Correlations between Photoelectrons and Photofragments. Japanese Journal of Applied Physics, 2006, 45, 1841-1849.	1.5	43
9	Photoelectron–photoion–photoion momentum spectroscopy as a direct probe of the core-hole localization in C 1s photoionization of C <sub>2</sub> H <sub>2</sub> . Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, F285-F291.	1.5	39
10	Static structure factor and electron correlation effects studied by inelastic x-ray scattering spectroscopy. Journal of Chemical Physics, 1998, 108, 4545-4553.	3.0	38
11	(e,2e)and(e,3â^'1e)studies on double processes of He at large momentum transfer. Physical Review A, 2005, 72, .	2.5	38
12	Absolute surface coverage measurement using a vibrational overtone. Journal of Chemical Physics, 2004, 120, 2879-2888.	3.0	35
13	Two-step mechanisms in ionization-excitation of He studied by binary(e,2e)experiments and second-Born-approximation calculations. Physical Review A, 2007, 75 interference Effects on ( <mmi:math 0="" etqq0="" o<="" rgbt="" td="" tj="" xmins:mmi='nttp://www.w3.org/1998/Math/MathML")'><td>2.5 verlock 10</td><td>32 ) Tf 50 247 T</td></mmi:math>	2.5 verlock 10	32 ) Tf 50 247 T
14	of <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>7.8</td><td>31</td></mml:math>	7.8	31
15	display="inline"> <mml:msub><mml:mi>CF</mml:mi><mml:mn>4</mml:mn></mml:msub> . ph, Inelastic X-ray scattering study on molecular liquids. Journal of Physics and Chemistry of Solids, 2000, 61, 407-409.	4.0	29
16	Vibronic effects on the low-lying electronic excitations in CO2 induced by electron impact. Journal of Chemical Physics, 2013, 138, 184311.	3.0	29
17	Vibrational effects on valence electron momentum distributions of CH2F2. Journal of Chemical Physics, 2014, 141, 244314.	3.0	29
18	Theoretical study of molecular vibrations in electron momentum spectroscopy experiments on furan: An analytical versus a molecular dynamical approach. Journal of Chemical Physics, 2015, 142, 094308.	3.0	28

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19	Two-step single-ionization mechanisms. Physical Review A, 2006, 73, .	2.5	27
20	Non-dipole effects in the angular distribution of photoelectrons from the K-shell of N2molecule. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, L25-L34.	1.5	25
21	Vibrational Effects on Electron Momentum Distributions of Outer-Valence Orbitals of Oxetane. Journal of Physical Chemistry A, 2016, 120, 6855-6863.	2.5	24
22	Electron Momentum Spectroscopy Investigation of Molecular Conformations of Ethanol Considering Vibrational Effects. Journal of Physical Chemistry A, 2017, 121, 277-287.	2.5	22
23	Experimental and theoretical study on generalized oscillator strengths of the valence-shell electronic excitations in CF4. Journal of Chemical Physics, 2011, 134, 064307.	3.0	21
24	Size-extensive calculations of static structure factors from the coupled cluster singles and doubles model. Journal of Chemical Physics, 1999, 111, 827-832.	3.0	20
25	A highly sensitive electron momentum spectrometer incorporating a multiparticle imaging detector. Measurement Science and Technology, 2011, 22, 075602.	2.6	20
26	Electron momentum spectroscopy of dimethyl ether taking account of nuclear dynamics in the electronic ground state. Journal of Chemical Physics, 2015, 143, 134309.	3.0	19
27	Vibronic effects on the 1 <i>t</i> 1 → 3s Rydberg excitation in CF4 induced by electron impact. Journal of Chemical Physics, 2011, 134, 234309.	3.0	18
28	Nondipole effects in the angular distribution of photoelectrons from the CKshell of the CO molecule. Physical Review A, 2006, 73, .	2.5	17
29	Relationship between interference pattern and molecular orbital shape in (e, 2e) electron momentum profiles of SF6. Journal of Electron Spectroscopy and Related Phenomena, 2016, 209, 78-86.	1.7	17
30	Examination of (e,2e) scattering models by comparison of momentum profiles of noble gases between experiment and theory. Physical Chemistry Chemical Physics, 2006, 8, 3022.	2.8	16
31	Bethe surfaces and X-ray incoherent scattering factor for H2O studied by electron energy loss spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2000, 112, 107-114.	1.7	14
32	Electron momentum spectroscopy of valence satellites of neon. Journal of Electron Spectroscopy and Related Phenomena, 2005, 142, 325-334.	1.7 T./Overlock	13
33	experiment for N <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>2.5</td><td>13</td></mml:math>	2.5	13
34	Misplay – Initial Subject in the sub	2.5	13
35	Practical Means for the Study of Electron Correlation in Atoms. Physical Review Letters, 2004, 92, 223202.	7.8	12
36	Observation of Giant Resonance Phenomena in the Two-Step Mechanism of Electron-Xe Collision. Physical Review Letters, 2007, 98, 013201.	7.8	12

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37	Vibrational effects on electron-impact valence excitations of SF6. Physical Review A, 2019, 99, .	2.5	11
38	Generalized oscillator strengths of low-lying electronic excitations in acetylene. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 075202.	1.5	11
39	Vibronic effects on the low-lying electronic excitations in N <sub>2</sub> O induced by electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 155203.	1.5	10
40	Influence of molecular vibrations on the valence electron momentum distributions of adamantane. Journal of Chemical Physics, 2017, 146, .	3.0	9
41	Radiative Auger spectra of several K and Ca compounds. Journal of Physics Condensed Matter, 1996, 8, 37-46.	1.8	8
42	Electron-impact double ionization of He at large momentum transfer studied by second-order Born-approximation calculations. Physical Review A, 2008, 77, .	2.5	8
43	Electron-impact ionization of the water molecule at large momentum transfer above the double-ionization threshold. Physical Review A, 2011, 83, .	2.5	8
44	ELECTRON CORRELATION AND COULOMB HOLE DEDUCED FROM X-RAY SCATTERING INTENSITIES: EXPERIMENTAL AND THEORETICAL STUDIES. , 2002, , 553-576.		7
45	Interference effects on (e,Â2e) electron momentum profiles: a comparative study for CCl4 and CF4*. European Physical Journal D, 2016, 70, 1.	1.3	7
46	Molecular-frame electron-scattering experiment on the dipole-forbidden 2σg→1πg transition of N2. Physical Review A, 2017, 95, .	2.5	7
47	Stereodynamics of electron-induced dissociative ionization of N2 studied by (e, e+ion) spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 1063-1071.	2.8	7
48	Development of an electron-ion coincidence apparatus for molecular-frame electron energy loss spectroscopy studies. Review of Scientific Instruments, 2018, 89, 043105.	1.3	6
49	Vibrational effects on generalized oscillator strengths of ammonia. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 135202.	1.5	6
50	Calculation of X-ray scattering intensities by means of the coupled cluster singles and doubles model. Journal of Computational Chemistry, 2001, 22, 1315-1320.	3.3	5
51	Electron-impact ionization of N2at large momentum transfer above the double-ionization threshold. Physical Review A, 2012, 86, .	2.5	5
52	Electron momentum spectroscopy study on the valence electronic structure of methyl formate. Journal of Chemical Physics, 2019, 150, 194306.	3.0	5
53	(e,e+ion) study on electron-induced dissociative ionization of O2. Physical Review A, 2019, 99, .	2.5	5
54	(e, 3e) collisions on Mg in the impulsive regime studied by the second Born approximation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 4551-4560.	1.5	4

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55	Theoretical study of generalized oscillator strengths for the low-lying electronic excitations of CH <sub>3</sub> Cl and CF <sub>3</sub> Cl. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 015201.	1.5	4
56	Momentum dependence of π–πâ^— excitations of benzene rings in condensed phases. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 933-937.	1.7	3
57	Coulomb hole in N2, CO and O2deduced from X-ray scattering cross-sections. Molecular Physics, 2004, 102, 649-657.	1.7	3
58	Forward–backward asymmetry in electron impact ionization of CO. Journal of Chemical Physics, 2020, 152, 164301.	3.0	3
59	Electron correlation effects in N2and CO studied by X-ray scattering and CISD calculations. Molecular Physics, 2002, 100, 2839-2847.	1.7	2
60	Temperature-Dependent Electron Momentum Spectroscopy on the Molecular Orbitals of Dimethyl Ether. Journal of Physical Chemistry A, 2020, 124, 10258-10265.	2.5	2
61	Inelastic X-ray scattering in molecular liquids and electron correlation effects. Journal of Synchrotron Radiation, 1998, 5, 1052-1054.	2.4	1
62	Electron impact ionization-excitation and double-ionization dynamics of He at large momentum transfer. Journal of Physics: Conference Series, 2009, 194, 012018.	0.4	1
63	Multi-center interference effects on generalized oscillator strengths for the valence-shell electronic excitations of CF <sub>4</sub> . Journal of Physics: Conference Series, 2012, 388, 052051.	0.4	1
64	X-ray and Electron Scattering Studies on Electronic Structures and Electronic Excitation Dynamics of Molecules. Molecular Science, 2013, 7, A0059.	0.2	1
65	Revisiting electron-correlation effects on valence shake-up satellites of neon. Physical Review A, 2019, 100, .	2.5	1
66	Symmetry breaking in electron-impact dissociative ionization of linear symmetric molecules. Physical Review A, 2021, 104, .	2.5	1
67	X-Ray Raman Spectra from Low-Z Elements. European Physical Journal Special Topics, 1997, 7, C2-347-C2-352.	0.2	1
68	First steps towards two-electron momentum density measurements. AIP Conference Proceedings, 2003, , .	0.4	0
69	(e,2e) and (e,3-1e) studies on double processes of He near the Bethe ridge. AIP Conference Proceedings, 2006, , .	0.4	0
70	(e,3-1e) Reactions at Large Momentum Transfer: The Plane-Wave Second Born Approximation. AIP Conference Proceedings, 2006, , .	0.4	0
71	Double Electron Excitation Dynamics Studied By (E, 2E) Electron Momentum Spectroscopy. , 2009, , .		0
72	Carbon 1s electron momentum spectroscopy of CF4. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 105201.	1.5	0

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73	Herzberg-Teller vibronic effects on electron-impact excitations of N <sub>2</sub> O. Journal of Physics: Conference Series, 2015, 635, 072032.	0.4	0
74	EMS study of vibrational effects on electron momentum distributions of C <sub>2</sub> H <sub>4</sub> and CH <sub>2</sub> F <sub>2</sub> . Journal of Physics: Conference Series, 2015, 635, 072031.	0.4	0
75	Molecular-frame EELS experiment on inner-valence ionization of N2. Journal of Physics: Conference Series, 2017, 875, 062022.	0.4	0