Takuya Majima

List of Publications by Year in descending order

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		567144	642610
78	647	15	23
papers	citations	h-index	g-index
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3	Photoelectron diffraction from laser-aligned molecules with X-ray free-electron laser pulses. Scientific Reports, 2015, 5, 14065.	1.6	44
4	Photon-trap spectroscopy of mass-selected ions in an ion trap: Optical absorption and magneto-optical effects. Journal of Chemical Physics, 2007, 127, 231101.	1.2	39
5	Structure determination of molecules in an alignment laser field by femtosecond photoelectron diffraction using an X-ray free-electron laser. Scientific Reports, 2016, 6, 38654.	1.6	31
6	lonization cross sections of C60by fast electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 277-286.	0.6	25
7	Photon-trap spectroscopy of size-selected free cluster ions: "direct―measurement of optical absorption of Ag+ 9. European Physical Journal D, 2009, 52, 43-46.	0.6	22
8	Correlation between multiple ionization and fragmentation of C60in2â^MeVSi2+collisions: Evidence for fragmentation induced by internal excitation. Physical Review A, 2004, 69, .	1.0	21
9	Damage and polymerization of C60 films irradiated by fast light and heavy ions. Nuclear Instruments & Methods in Physics Research B, 2002, 193, 299-304.	0.6	20
10	Direct measurement of recurrent fluorescence emission from naphthalene ions. Physical Review A, 2020, 102, .	1.0	20
11	A cryogenic electrostatic storage ring project at RIKEN. Journal of Physics: Conference Series, 2012, 388, 142027.	0.3	18
12	Secondary electron emission from Au by medium energy atomic and molecular ions. Nuclear Instruments & Methods in Physics Research B, 2002, 193, 626-631.	0.6	17
13	Fragment ion distribution in charge-changing collisions of 2-MeV Si ions with C60. Physical Review A, 2001, 64, .	1.0	16
14	Spatial distribution of ions in a linear octopole radio-frequency ion trap in the space-charge limit. Physical Review A, 2012, 85, . Correlation between multiple ionization and fragmentation of small math	1.0	15
15	xmlns:mml="http://www.w ³ .org/1998/Math/MathML"> <mml:mrow><mml:msub><mml:mi mathvariant="normal">C<mml:mn>2</mml:mn></mml:mi </mml:msub><mml:msub><mml:mi mathvariant="normal">H<mml:mn>6</mml:mn></mml:mi </mml:msub></mml:mrow> in charge-changing collisions with <mml:math< td=""><td>1.0</td><td>15</td></mml:math<>	1.0	15
16	xmlns:mml="http://www.w3.org/1998/Math/MathMt"> <mml:mrow> <mml:mn> 580 </mml:mn> <mml:mrow> <mm Multifragmentation ofC60by fastLi0atoms andLi1â€"3+ions in electron loss and capture collisions. Physical Review A, 1999, 61, .</mm </mml:mrow></mml:mrow>	nl:mtext>ã 1.0	~'
17	Equilibrium charge distributions of lithium ions emerging from a carbon foil. Nuclear Instruments & Methods in Physics Research B, 1999, 159, 22-27.	0.6	14
18	ERD measurement of depth profiles of H and Li in Pt-coated LiCoO2 thin films. Nuclear Instruments & Methods in Physics Research B, 2013, 315, 341-344.	0.6	12

#	Article	IF	Citations
19	Fragmentation processes of C60 in multiple electron loss and capture collisions of 2a^'MeVSi2+. Physical Review A, 2006, 74, .	1.0	10
20	Molecular orientation effects in CO fragmentation induced by charge-changing collisions of 6 MeV O4+ions. Journal of Physics: Conference Series, 2007, 58, 173-176.	0.3	9
21	Laser-induced thermal detachment of hot, large molecular ions under multiphoton-absorption conditions. Physical Review A, 2013, 87, .	1.0	9
22	Dynamic measurements of Li depth profiles in a Liâ€ion battery system under charging condition by means of ERD and RBS techniques. Surface and Interface Analysis, 2014, 46, 1187-1191.	0.8	9
23	Dissociation of biomolecules in liquid environments during fast heavy-ion irradiation. Journal of Chemical Physics, 2017, 147, 225103.	1.2	9
24	Kinetic energy distributions of product ions from singly and multiply ionized C 2 H 2 molecules induced by 0.8 MeV C + collisions. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 203-208.	0.6	8
25	Ar 3 <i>p</i> photoelectron sideband spectra in two-color XUV + NIR laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 075601.	0.6	8
26	Effects of radical scavengers on aqueous solutions exposed to heavy-ion irradiation using the liquid microjet technique. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 611-615.	0.6	7
27	Time-resolved photoelectron angular distributions from nonadiabatically aligned CO2 molecules with SX-FEL at SACLA. Journal of Physics Communications, 2018, 2, 115015.	0.5	7
28	Secondary electron-induced biomolecular fragmentation in fast heavy-ion irradiation of microdroplets of glycine solution. Journal of Chemical Physics, 2019, 150, 095102.	1.2	7
29	Electrochemical control and protonation of the strontium iron oxide $SrFeO< i>y< li>by using proton-conducting electrolyte. Applied Physics Letters, 2022, 120, .$	1.5	7
30	Secondary ion emission from ethanol microdroplets induced by fast heavy ions. Journal of Physics: Conference Series, 2015, 635, 012021.	0.3	6
31	Fast heavy-ion radiation damage of glycine in aqueous solution. Nuclear Instruments & Methods in Physics Research B, 2016, 389-390, 28-32.	0.6	6
32	Mass spectrometric study of the negative and positive secondary ions emitted from ethanol microdroplets by MeV-energy heavy ion impact. Nuclear Instruments & Methods in Physics Research B, 2018, 424, 10-16.	0.6	6
33	Cooling dynamics of photo-excited negative carbon cluster ions stored in an ion storage ring. Nuclear Instruments & Methods in Physics Research B, 2015, 354, 192-196.	0.6	5
34	Radiative lifetime measurements of 2P3/2 and 2P1/2 metastable levels in triply charged xenon using electrostatic ion beam trap. Nuclear Instruments & Methods in Physics Research B, 2018, 414, 68-73.	0.6	5
35	Two- and three-photon double ionization of helium by soft x-ray free-electron laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 065602.	0.6	5
36	The role of nuclear stopping power in fast heavy ion collision with C60. Nuclear Instruments & Methods in Physics Research B, 2002, 193, 209-213.	0.6	4

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37	Impact-parameter-dependent multifragmentation of C60 in charge-changing collisions with 2â€MeVC+ions. Physical Review A, 2007, 75, .	1.0	4
38	Photodissociation spectroscopy of the chromium trimer ion. European Physical Journal D, 2007, 43, 23-26.	0.6	4
39	Optical pumping by a laser pulse traveling in a cavity. Physical Review A, 2008, 77, .	1.0	4
40	Fragmentation of multiply ionized CF3–CH2F induced by charge-changing collisions with fast carbon ions. International Journal of Mass Spectrometry, 2017, 421, 25-32.	0.7	4
41	A cryogenic linear ion trap beamline for providing keV ion bunches. Review of Scientific Instruments, 2018, 89, 113110.	0.6	4
42	Effect of structure and orientation of incident carbon-cluster ions <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mrow><mml:msub>C<mml:mi></mml:mi></mml:msub></mml:mrow><mml:mo>+</mml:mo> on secondary-ion emission induced by electronic excitation. Physical Review A, 2021, 103, .</mml:msup></mml:mrow></mml:math>	ıl:mi ımi:msup>	·<#ml:mrow
43	Electronic stopping and velocity effect on multiple ionization and fragmentation of C60 in swift heavy ion impacts. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 101-104.	0.6	3
44	Transmission properties of C60 ions through micro- and nano-capillaries. Nuclear Instruments & Methods in Physics Research B, 2013, 315, 336-340.	0.6	3
45	Cooling dynamics of carbon cluster anions. Journal of Physics: Conference Series, 2015, 635, 012035.	0.3	3
46	The impact of solar radiation on polar mesospheric ice particle formation. Atmospheric Chemistry and Physics, 2019, 19, 4311-4322.	1.9	3
47	Kinetic energy distributions of the fragment ions from multiply ionized C 2 H 6 as functions of the charge state of the intermediate states. X-Ray Spectrometry, 2020, 49, 177-183.	0.9	3
48	Energy and angular distributions of secondary ions from a C60 surface induced by fast heavy ion impacts. Nuclear Instruments & Methods in Physics Research B, 2003, 203, 141-145.	0.6	2
49	Electron emission and fragmentation of C60 in collisions with energetic particles. Vacuum, 2004, 73, 53-58.	1.6	2
50	Multiple ionization of C60 by fast Siq+ions. Physical Review A, 2008, 78, .	1.0	2
51	Cross-section measurements of $\hat{l}\pm + 14N$ elastic scattering for He beam TOF-ERDA. Nuclear Instruments & Methods in Physics Research B, 2015, 343, 1-4.	0.6	2
52	Radiative lifetime measurement of $1\mathrm{S}0$ metastable state of Ar $2+$ using electrostatic ion beam trap. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 194-197.	0.6	2
53	Radiative lifetime measurements of metastable levels in Kr 3+ using electrostatic ion beam trap. X-Ray Spectrometry, 2020, 49, 37-41.	0.9	2
54	Relation between biomolecular dissociation and energy of secondary electrons generated in liquid water by fast heavy ions. European Physical Journal D, 2020, 74, 1.	0.6	2

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55	Photoelectron angular distribution studies for two spin–orbit-split components of Xe 3d subshell: a critical comparison between theory and experiment. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 105003.	0.6	2
56	Fast-ion-induced secondary ion emission from submicron droplet surfaces studied using a new coincidence technique with forward-scattered projectiles. Journal of Chemical Physics, 2020, 153, 224201.	1.2	2
57	Basic studies toward ultrafast soft x-ray photoelectron diffraction; its application to probing local structure in iodobenzene molecules. Structural Dynamics, 2022, 9, 024303.	0.9	2
58	Charge-State Dependence of C60 ? Multifragmentation in Collisions of 30 MeV Ne2?9+ Ions. Physica Scripta, 2001, T92, 176-178.	1.2	1
59	High-Resolution Measurements of Initial Kinetic Energy of Fragment Ions Produced in Fast Heavy Ions ? C60. Physica Scripta, 2001, T92, 179-181.	1.2	1
60	Multiple ionization and fragmentation of polyatomic molecules by fast heavy ions. Journal of Physics: Conference Series, 2011, 288, 012027.	0.3	1
61	Microhydration of the methylene blue cation in an electrospray ion source. European Physical Journal D, 2011, 63, 189-194.	0.6	1
62	C60fragmentation in charge-changing collisions with slow Au+ions. Physical Review A, 2011, 83, .	1.0	1
63	Charge-state distributions of fast diatomic carbon ions and dissociated fragments passing through microcapillaries. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 115201.	0.6	1
64	Single-electron-capture cross-section scaling for low- $\langle i \rangle q \langle i \rangle$ heavy ions at low energy. Journal of Physics: Conference Series, 2014, 488, 082010.	0.3	1
65	Dynamic Measurements of Hydrogen and Lithium Distributions in Lithium-Cobalt-Oxide Films with Charging and Heating Using Elastic Recoil Detection Techniques. Physics Procedia, 2015, 66, 292-297.	1.2	1
66	Incident Energy Dependence of the Molecular Orientation Effect of MeV (ext $\{C\}_{\{2\}}^{\{+\}}$) Projectiles in Secondary-Ion Emission Processes. Journal of the Physical Society of Japan, 2022, 91, .	0.7	1
67	Lifetime measurement of the <i>a</i> ⁴ Î _{<i>u</i>} metastable state of O ₂ ⁺ using an electrostatic ion storage ring. Journal of Physics: Conference Series, 2009, 194, 022099.	0.3	0
68	Internal energy of stored large molecular anions deduced from laser-induced electron detachment yield. Journal of Physics: Conference Series, 2009, 194, 022092.	0.3	0
69	Detection of the metastable chain hydrocarbon anions by an electrostatic ion storage ring. Journal of Physics: Conference Series, 2009, 194, 152024.	0.3	0
70	Zeeman splitting and Faraday rotation associated with Mn+ 7PJâ†7S3absorption: Photon-trap spectroscopy and quantum-theory analysis. Journal of Physics: Conference Series, 2009, 185, 012045.	0.3	0
71	Photoabsorption and Magneto-Optical Spectroscopy of Mass-Selected Atomic and Cluster Ions Stored in an Ion Trap. , 2009, , .		0
72	Laser spectroscopy of the methylene blue cation in an electrostatic ion storage ring. Journal of Physics: Conference Series, 2012, 388, 022048.	0.3	0

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73	Coincidence measurements between fragment ions and the number of emitted electrons in heavy ion collisions with polyatomic molecules. Journal of Physics: Conference Series, 2012, 388, 102022.	0.3	O
74	Difference in cooling dynamics between photo-excited Câ [^] '6and C6Hâ [^] '. Journal of Physics: Conference Series, 2014, 488, 022036.	0.3	0
75	Correlation between multiple ionization and fragmentation of small hydrocarbon molecules induced by fast heavy ions. Journal of Physics: Conference Series, 2015, 635, 032066.	0.3	O
76	Positive and negative ion emission from microdroplets by MeV energy ions. Journal of Physics: Conference Series, 2015, 635, 032018.	0.3	0
77	Fragmentation of multiply ionized biomolecules induced by MeV heavy ions. Journal of Physics: Conference Series, 2015, 635, 032062.	0.3	O
78	Photoelectron spectroscopy of Rydberg excited states in singly charged molecular ions CS ₂ ⁺ by NIR laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 225601.	0.6	0