

Shin-ichi Wada

List of Publications by Year in descending order

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62
papers

1,813
citations

279487

23
h-index

276539

41
g-index

62
all docs

62
docs citations

62
times ranked

1735
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic properties of DNA-related molecules containing a bromine atom. <i>International Journal of Radiation Biology</i> , 2023, 99, 82-88.	1.0	1
2	Suppression of thermal nanoplasma emission in clusters strongly ionized by hard x-rays. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 044001.	0.6	7
3	Multi-particle momentum correlations extracted using covariance methods on multiple-ionization of diiodomethane molecules by soft-X-ray free-electron laser pulses. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2648-2659.	1.3	5
4	Real-time observation of disintegration processes within argon clusters ionized by a hard-x-ray pulse of moderate fluence. <i>Physical Review A</i> , 2020, 101, .	1.0	7
5	Refinement for single-nanoparticle structure determination from low-quality single-shot coherent diffraction data. <i>IUCr</i> , 2020, 7, 10-17.	1.0	6
6	Photo-ionization and fragmentation of Sc ₃ N@C ₈₀ following excitation above the Sc K-edge. <i>Journal of Chemical Physics</i> , 2019, 151, 104308.	1.2	5
7	Real-time observation of X-ray-induced intramolecular and interatomic electronic decay in CH ₂ I ₂ . <i>Nature Communications</i> , 2019, 10, 2186.	5.8	19
8	Electron spectroscopic study of nanoplasma formation triggered by intense soft x-ray pulses. <i>Journal of Chemical Physics</i> , 2019, 151, 184305.	1.2	5
9	Multispectroscopic Study of Single Xe Clusters Using XFEL Pulses. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4932.	1.3	2
10	Radiation-Induced Chemical Dynamics in Ar Clusters Exposed to Strong X-Ray Pulses. <i>Physical Review Letters</i> , 2018, 120, 223201.	2.9	18
11	Following the Birth of a Nanoplasma Produced by an Ultrashort Hard-X-Ray Laser in Xenon Clusters. <i>Physical Review X</i> , 2018, 8, .	2.8	16
12	Ultrafast Coulomb explosion of a diiodomethane molecule induced by an X-ray free-electron laser pulse. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19707-19721.	1.3	27
13	Interatomic Coulombic decay cascades in multiply excited neon clusters. <i>Nature Communications</i> , 2016, 7, 13477.	5.8	30
14	Ultrafast Dynamics of a Nucleobase Analogue Illuminated by a Short Intense X-ray Free Electron Laser Pulse. <i>Physical Review X</i> , 2016, 6, .	2.8	17
15	Femtosecond charge and molecular dynamics of I-containing organic molecules induced by intense X-ray free-electron laser pulses. <i>Faraday Discussions</i> , 2016, 194, 537-562.	1.6	22
16	Electron spectroscopy of rare-gas clusters irradiated by x-ray free-electron laser pulses from SACLA. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 034004.	0.6	11
17	Water adsorption on TiO ₂ surfaces probed by soft X-ray spectroscopies: bulk materials vs. isolated nanoparticles. <i>Scientific Reports</i> , 2015, 5, 15088.	1.6	104
18	Nanoplasma Formation by High Intensity Hard X-rays. <i>Scientific Reports</i> , 2015, 5, 10977.	1.6	60

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19	Ionic Solutions Probed by Resonant Inelastic X-ray Scattering. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015, 229, 1855-1867.	1.4	13
20	Charge and Nuclear Dynamics Induced by Deep Inner-Shell Multiphoton Ionization of CH ₃ I Molecules by Intense X-ray Free-Electron Laser Pulses. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2944-2949.	2.1	55
21	Covariance mapping of two-photon double core hole states in C ₂ H ₂ and C ₂ H ₆ produced by an x-ray free electron laser. <i>New Journal of Physics</i> , 2015, 17, 073002.	1.2	28
22	Pulse-delay effects in the angular distribution of near-threshold EUV+IR two-photon ionization of Ne. <i>Physical Review A</i> , 2014, 89, .	1.0	12
23	Dynamics of Hollow Atom Formation in Intense X-Ray Pulses Probed by Partial Covariance Mapping. <i>Physical Review Letters</i> , 2013, 111, 073002.	2.9	83
24	Deep Inner-Shell Multiphoton Ionization by Intense X-Ray Free-Electron Laser Pulses. <i>Physical Review Letters</i> , 2013, 110, 173005.	2.9	136
25	Resonance-enhanced multiple ionization of krypton at an x-ray free-electron laser. <i>Physical Review A</i> , 2013, 87, .	1.0	57
26	Chemical Reactions Induced by Core Electron Excitations. , 2013, , 61-79.		1
27	Ultrafast Charge Rearrangement and Nuclear Dynamics upon Inner-Shell Multiple Ionization of Small Polyatomic Molecules. <i>Physical Review Letters</i> , 2013, 110, 053003.	2.9	98
28	Sequential multiphoton multiple ionization of atomic argon and xenon irradiated by x-ray free-electron laser pulses from SACLA. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164024.	0.6	50
29	Using covariance mapping to investigate the dynamics of multi-photon ionization processes of Ne atoms exposed to X-FEL pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164034.	0.6	31
30	Photoelectron angular distributions in infrared one-photon and two-photon ionization of FEL-pumped Rydberg states of helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 205601.	0.6	12
31	Inner-shell multiple ionization of polyatomic molecules with an intense x-ray free-electron laser studied by coincident ion momentum imaging. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164031.	0.6	27
32	Double core-hole formation in small molecules at the LCLS free electron laser. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164030.	0.6	19
33	Anomalous signal from S atoms in protein crystallographic data from an X-ray free-electron laser. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 838-842.	2.5	48
34	Experimental Verification of the Chemical Sensitivity of Two-Site Double Core-Hole States Formed by an X-Ray Free-Electron Laser. <i>Physical Review Letters</i> , 2012, 108, 153003.	2.9	103
35	Angle-Resolved Electron Spectroscopy of Laser-Assisted Auger Decay Induced by a Few-Femtosecond X-Ray Pulse. <i>Physical Review Letters</i> , 2012, 108, 063007.	2.9	46
36	Size-Dependent Ultrafast Ionization Dynamics of Nanoscale Samples in Intense Femtosecond X-Ray Free-Electron-Laser Pulses. <i>Physical Review Letters</i> , 2012, 108, 233401.	2.9	60

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37	Double Core Hole Spectroscopy of Small Molecules. , 2012, , .		0
38	Double-core-hole spectroscopy for chemical analysis with an intense X-ray femtosecond laser. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16912-16915.	3.3	165
39	Fundamentals of Mass Spectrometry -Chemical Reaction by Core Electron Excitation-. Journal of the Mass Spectrometry Society of Japan, 2010, 58, 17-27.	0.0	0
40	Adsorption and structure of methyl mercaptoacetate on Cu(111) surface by XPS and NEXAFS spectroscopy. Surface Science, 2007, 601, 3833-3837.	0.8	10
41	Configuration dependence of photon stimulated ion desorption from methyl ester compounds induced by core excitation. Surface Science, 2007, 601, 3956-3960.	0.8	11
42	Dissociation mechanisms and dynamics of doubly charged CD ₃ CN observed by PEPIICO spectroscopy. Radiation Physics and Chemistry, 2006, 75, 2085-2089.	1.4	12
43	Atomic position dependence of the primary core electron excitation on site-specific chemical bond scission. Radiation Physics and Chemistry, 2006, 75, 2076-2079.	1.4	18
44	Selective chemical bond breaking characteristically induced by resonant core excitation of ester compounds on a surface. Journal of Physics Condensed Matter, 2006, 18, S1629-S1653.	0.7	30
45	Theoretical study of ion desorption from poly-(methyl methacrylate) and poly-(isopropenyl acetate) thin films through core excitation. Journal of Chemical Physics, 2006, 124, 124901.	1.2	21
46	Dissociation mechanisms and dynamics of core-excited (N ₂ O) _n clusters. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 179-182.	0.8	6
47	Polarization-dependent dissociation selectively induced by core-electron excitation in methyl ester terminated self-assembled monolayer. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 447-451.	0.8	8
48	Ion desorption of surface-oriented methyl-ester compounds using a self-assembled monolayer by core-electron excitations: Polarization-dependence measurements. Surface Science, 2005, 593, 283-290.	0.8	7
49	Production of methyl-oxonium ion and its complexes in the core-excited (HC(O)OCH ₃) _n clusters: H ⁺ transfer from the $\hat{I}\pm$ carbonyl. Journal of Chemical Physics, 2005, 123, 124309.	1.2	8
50	Study of neutral desorption reaction of core-excited PMMA thin film by femtosecond laser ionization. Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 211-216.	0.8	7
51	Study of adsorption structure of benzene and toluene on Si(111)7 \times 7 surfaces. Surface Science, 2004, 566-568, 664-670.	0.8	20
52	Orientation and charge transfer upon adsorption of ethanethiol on Cu() surface at 85 K. Nuclear Instruments & Methods in Physics Research B, 2003, 199, 240-243.	0.6	13
53	Active control of site specificity in ion desorption by core excitation. Nuclear Instruments & Methods in Physics Research B, 2003, 199, 361-365.	0.6	13
54	Active control of chemical bond scission by site-specific core excitation. Surface Science, 2003, 528, 242-248.	0.8	47

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55	Study of photon stimulated ion desorption of methyl ester terminated self-assembled monolayer induced by carbon core excitation using Auger electron-photoion coincidence spectroscopy. <i>Surface Science</i> , 2003, 532-535, 267-271.	0.8	5
56	Photon-stimulated ion desorption for PMMA thin film in the oxygen K-edge region studied by Auger electron-photoion coincidence spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 114-116, 585-590.	0.8	29
57	Mechanism of ion desorption reaction of PMMA thin film induced by core excitation. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 114-116, 591-596.	0.8	23
58	Control of chemical reactions by core excitations. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 119, 255-266.	0.8	50
59	Development of a time-of-flight mass spectrometer for ion desorption studies at HISOR. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 1509-1513.	0.7	9
60	Study of ion desorption induced by carbon core excitation for poly-methylmethacrylate thin film using electron-photoion coincidence spectroscopy. <i>Journal of Chemical Physics</i> , 2001, 114, 2751-2759.	1.2	23
61	Photochemical Reaction Dynamics of O(1D) with Saturated Hydrocarbons, CH ₄ , C ₂ H ₆ , and C ₃ H ₈ , under Bulk Conditions and in van der Waals Complexes. <i>Journal of Physical Chemistry A</i> , 1998, 102, 3481-3491.	1.1	30
62	Laser-Induced Fluorescence Spectroscopy of Jet-Cooled Benzophenone Ketyl Radical. <i>Journal of Physical Chemistry A</i> , 1997, 101, 2423-2428.	1.1	7