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	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
2	Deep Inner-Shell Multiphoton Ionization by Intense X-Ray Free-Electron Laser Pulses. Physical Review Letters, 2013, 110, 173005.	2.9	136
3	Water adsorption on TiO2 surfaces probed by soft X-ray spectroscopies: bulk materials vs. isolated nanoparticles. Scientific Reports, 2015, 5, 15088.	1.6	104
4	Experimental Verification of the Chemical Sensitivity of Two-Site Double Core-Hole States Formed by an X-Ray Free-Electron Laser. Physical Review Letters, 2012, 108, 153003.	2.9	103
5	Ultrafast Charge Rearrangement and Nuclear Dynamics upon Inner-Shell Multiple Ionization of Small Polyatomic Molecules. Physical Review Letters, 2013, 110, 053003.	2.9	98
6	Dynamics of Hollow Atom Formation in Intense X-Ray Pulses Probed by Partial Covariance Mapping. Physical Review Letters, 2013, 111, 073002.	2.9	83
7	Size-Dependent Ultrafast Ionization Dynamics of Nanoscale Samples in Intense Femtosecond X-Ray Free-Electron-Laser Pulses. Physical Review Letters, 2012, 108, 233401.	2.9	60
8	Nanoplasma Formation by High Intensity Hard X-rays. Scientific Reports, 2015, 5, 10977.	1.6	60
9	Resonance-enhanced multiple ionization of krypton at an x-ray free-electron laser. Physical Review A, 2013, 87, .	1.0	57
10	Charge and Nuclear Dynamics Induced by Deep Inner-Shell Multiphoton Ionization of CH₃I Molecules by Intense X-ray Free-Electron Laser Pulses. Journal of Physical Chemistry Letters, 2015, 6, 2944-2949.	2.1	55
11	Control of chemical reactions by core excitations. Journal of Electron Spectroscopy and Related Phenomena, 2001, 119, 255-266.	0.8	50
12	Sequential multiphoton multiple ionization of atomic argon and xenon irradiated by x-ray free-electron laser pulses from SACLA. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164024.	0.6	50
13	Anomalous signal from S atoms in protein crystallographic data from an X-ray free-electron laser. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 838-842.	2.5	48
14	Active control of chemical bond scission by site-specific core excitation. Surface Science, 2003, 528, 242-248.	0.8	47
15	Angle-Resolved Electron Spectroscopy of Laser-Assisted Auger Decay Induced by a Few-Femtosecond X-Ray Pulse. Physical Review Letters, 2012, 108, 063007.	2.9	46
16	Using covariance mapping to investigate the dynamics of multi-photon ionization processes of Ne atoms exposed to X-FEL pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164034.	0.6	31
17	Photochemical Reaction Dynamics of O(1D) with Saturated Hydrocarbons, CH4, C2H6, and C3H8, under Bulk Conditions and in van der Waals Complexes. Journal of Physical Chemistry A, 1998, 102, 3481-3491.	1.1	30
18	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

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19	Interatomic Coulombic decay cascades in multiply excited neon clusters. Nature Communications, 2016, 7, 13477.	5.8	30
20	Photon-stimulated ion desorption for PMMA thin film in the oxygen K-edge region studied by Auger electron-photoion coincidence spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 585-590.	0.8	29
21	Covariance mapping of two-photon double core hole states in C₂H₂and C₂H₆produced by an x-ray free electron laser. New Journal of Physics, 2015, 17, 073002.	1.2	28
22	Inner-shell multiple ionization of polyatomic molecules with an intense x-ray free-electron laser studied by coincident ion momentum imaging. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164031.	0.6	27
23	Ultrafast Coulomb explosion of a diiodomethane molecule induced by an X-ray free-electron laser pulse. Physical Chemistry Chemical Physics, 2017, 19, 19707-19721.	1.3	27
24	Mechanism of ion desorption reaction of PMMA thin film induced by core excitation. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 591-596.	0.8	23
25	Study of ion desorption induced by carbon core excitation for poly-methylmethacrylate thin film using electronâ€“ion coincidence spectroscopy. Journal of Chemical Physics, 2001, 114, 2751-2759.	1.2	23
26	Femtosecond charge and molecular dynamics of I-containing organic molecules induced by intense X-ray free-electron laser pulses. Faraday Discussions, 2016, 194, 537-562.	1.6	22
27	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
28	Study of adsorption structure of benzene and toluene on Si(111)7Ã—7 surfaces. Surface Science, 2004, 566-568, 664-670.	0.8	20
29	Double core-hole formation in small molecules at the LCLS free electron laser. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164030.	0.6	19
30	Real-time observation of X-ray-induced intramolecular and interatomic electronic decay in CH2I2. Nature Communications, 2019, 10, 2186.	5.8	19
31	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
32	Radiation-Induced Chemical Dynamics in Ar Clusters Exposed to Strong X-Ray Pulses. Physical Review Letters, 2018, 120, 223201.	2.9	18
33	Ultrafast Dynamics of a Nucleobase Analogue Illuminated by a Short Intense X-ray Free Electron Laser Pulse. Physical Review X, 2016, 6, .	2.8	17
34	Following the Birth of a Nanoplasma Produced by an Ultrashort Hard-X-Ray Laser in Xenon Clusters. Physical Review X, 2018, 8, .	2.8	16
35	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
36	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

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37	Ionic Solutions Probed by Resonant Inelastic X-ray Scattering. Zeitschrift Fur Physikalische Chemie, 2015, 229, 1855-1867.	1.4	13
38	Dissociation mechanisms and dynamics of doubly charged CD3CN observed by PEPIPICO spectroscopy. Radiation Physics and Chemistry, 2006, 75, 2085-2089.	1.4	12
39	Photoelectron angular distributions in infrared one-photon and two-photon ionization of FEL-pumped Rydberg states of helium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 205601.	0.6	12
40	Pulse-delay effects in the angular distribution of near-threshold EUVâ€‰+â€‰IR two-photon ionization of Ne. Physical Review A, 2014, 89, .	1.0	12
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	Electron spectroscopy of rare-gas clusters irradiated by x-ray free-electron laser pulses from SACLA. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 034004.	0.6	11
43	Adsorption and structure of methyl mercaptoacetate on Cu(111) surface by XPS and NEXAFS spectroscopy. Surface Science, 2007, 601, 3833-3837.	0.8	10
44	Development of a time-of-flight mass spectrometer for ion desorption studies at HiSOR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 1509-1513.	0.7	9
45	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
46	Production of methyl-oxonium ion and its complexes in the core-excited (HC(O)OCH3)n clusters: Hâˆ•H+ transfer from the Î± carbonyl. Journal of Chemical Physics, 2005, 123, 124309.	1.2	8
47	Laser-Induced Fluorescence Spectroscopy of Jet-Cooled Benzophenone Ketyl Radical. Journal of Physical Chemistry A, 1997, 101, 2423-2428.	1.1	7
48	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
49	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
50	Real-time observation of disintegration processes within argon clusters ionized by a hard-x-ray pulse of moderate fluence. Physical Review A, 2020, 101, .	1.0	7
51	Suppression of thermal nanoplasma emission in clusters strongly ionized by hard x-rays. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 044001.	0.6	7
52	Dissociation mechanisms and dynamics of core-excited (N2O)n clusters. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 179-182.	0.8	6
53	Refinement for single-nanoparticle structure determination from low-quality single-shot coherent diffraction data. IUCrJ, 2020, 7, 10-17.	1.0	6
54	Study of photon stimulated ion desorption of methyl ester terminated self-assembled monolayer induced by carbon core excitation using Auger electronâ€“photoion coincidence spectroscopy. Surface Science, 2003, 532-535, 267-271.	0.8	5

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55	Photo-ionization and fragmentation of Sc3N@C80 following excitation above the Sc K-edge. Journal of Chemical Physics, 2019, 151, 104308.	1.2	5
56	Electron spectroscopic study of nanoplasma formation triggered by intense soft x-ray pulses. Journal of Chemical Physics, 2019, 151, 184305.	1.2	5
57	Multi-particle momentum correlations extracted using covariance methods on multiple-ionization of diiodomethane molecules by soft-X-ray free-electron laser pulses. Physical Chemistry Chemical Physics, 2020, 22, 2648-2659.	1.3	5
58	Multispectroscopic Study of Single Xe Clusters Using XFEL Pulses. Applied Sciences (Switzerland), 2019, 9, 4932.	1.3	2
59	Chemical Reactions Induced by Core Electron Excitations. , 2013, , 61-79.		1
60	Electronic properties of DNA-related molecules containing a bromine atom. International Journal of Radiation Biology, 2023, 99, 82-88.	1.0	1
61	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
62	Double Core Hole Spectroscopy of Small Molecules. , 2012, , .		0