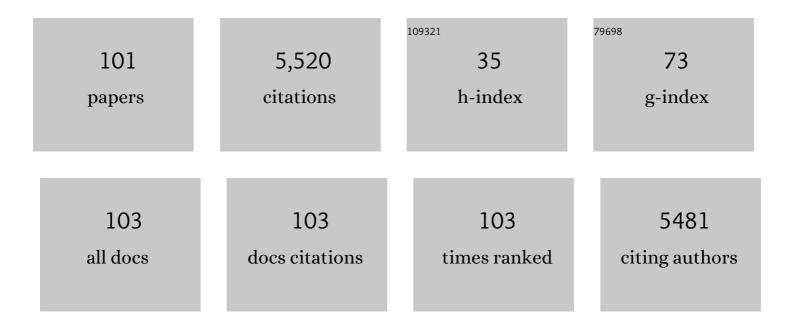
Takaki Hatsui

List of Publications by Year in descending order

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Τλκλκι Ηλτειιι

#	Article	IF	CITATIONS
1	A Global Shutter Wide Dynamic Range Soft X-Ray CMOS Image Sensor With Backside- Illuminated Pinned Photodiode, Two-Stage Lateral Overflow Integration Capacitor, and Voltage Domain Memory Bank. IEEE Transactions on Electron Devices, 2021, 68, 2056-2063.	3.0	10
2	Compression of Time Evolutionary Image Data through Predictive Deep Neural Networks. , 2021, , .		0
3	Physical and chemical imaging of adhesive interfaces with soft X-rays. Communications Materials, 2021, 2, .	6.9	6
4	Development and application of a tender X-ray ptychographic coherent diffraction imaging system on BL27SU at SPring-8. Journal of Synchrotron Radiation, 2021, 28, 1610-1615.	2.4	6
5	Development of a scanning soft X-ray spectromicroscope to investigate local electronic structures on surfaces and interfaces of advanced materials under conditions ranging from low vacuum to helium atmosphere. Journal of Synchrotron Radiation, 2020, 27, 664-674.	2.4	16
6	Soft X-ray Absorption Spectroscopy Probes OH···π Interactions in Epoxy-Based Polymers. Journal of Physical Chemistry C, 2020, 124, 9622-9627.	3.1	9
7	Refinement for single-nanoparticle structure determination from low-quality single-shot coherent diffraction data. IUCrJ, 2020, 7, 10-17.	2.2	6
8	Investigation of radiation hardness improvement by applying back-gate bias for FD-SOI MOSFETs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 924, 404-408.	1.6	3
9	Ultrafast Structural Dynamics of Nanoparticles in Intense Laser Fields. Physical Review Letters, 2019, 123, 123201.	7.8	14
10	Critical absorbed dose of resinous adhesive material towards non-destructive chemical-state analysis using soft X-rays. Journal of Electron Spectroscopy and Related Phenomena, 2019, 232, 11-15.	1.7	11
11	Multispectroscopic Study of Single Xe Clusters Using XFEL Pulses. Applied Sciences (Switzerland), 2019, 9, 4932.	2.5	2
12	A statistical approach to correct X-ray response non-uniformity in microstrip detectors for high-accuracy and high-resolution total-scattering measurements. Journal of Synchrotron Radiation, 2019, 26, 762-773.	2.4	38
13	Development of an X-ray imaging detector to resolve 200  nm line-and-space patterns by using transparent ceramics layers bonded by solid-state diffusion. Optics Letters, 2019, 44, 1403.	3.3	31
14	Crystal Structures of Human Orexin 2 Receptor Bound to the Subtype-Selective Antagonist EMPA. Structure, 2018, 26, 7-19.e5.	3.3	55
15	Advancement of X-ray radiography using microfocus X-ray source in conjunction with amplitude grating and SOI pixel detector, SOPHIAS. Optics Express, 2018, 26, 21044.	3.4	4
16	Single-shot 3D coherent diffractive imaging of core-shell nanoparticles with elemental specificity. Scientific Reports, 2018, 8, 8284.	3.3	10
17	Software for the data analysis of the arrival-timing monitor at SACLA. Journal of Synchrotron Radiation, 2018, 25, 592-603.	2.4	13
18	Data Analysis Environment for X-ray Free-Electron Laser Experiments at SACLA. Synchrotron Radiation News, 2017, 30, 16-21.	0.8	3

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19	Light-induced structural changes and the site of O=O bond formation in PSII caught by XFEL. Nature, 2017, 543, 131-135.	27.8	515
20	Hydroxyethyl cellulose matrix applied to serial crystallography. Scientific Reports, 2017, 7, 703.	3.3	74
21	Atomic resolution structure of serine protease proteinase K at ambient temperature. Scientific Reports, 2017, 7, 45604.	3.3	25
22	Nanosecond pump–probe device for time-resolved serial femtosecond crystallography developed at SACLA. Journal of Synchrotron Radiation, 2017, 24, 1086-1091.	2.4	28
23	Experimental phase determination with selenomethionine or mercury-derivatization in serial femtosecond crystallography. IUCrJ, 2017, 4, 639-647.	2.2	24
24	Protein–ligand complex structure from serial femtosecond crystallography using soaked thermolysin microcrystals and comparison with structures from synchrotron radiation. Acta Crystallographica Section D: Structural Biology, 2017, 73, 702-709.	2.3	8
25	Tradeoff Between Low-Power Operation and Radiation Hardness of Fully Depleted SOI pMOSFET by Changing LDD Conditions. IEEE Transactions on Electron Devices, 2016, 63, 2293-2298.	3.0	8
26	A scintillator fabricated by solid-state diffusion bonding for high spatial resolution x-ray imaging. AIP Conference Proceedings, 2016, , .	0.4	3
27	A three-dimensional movie of structural changes in bacteriorhodopsin. Science, 2016, 354, 1552-1557.	12.6	350
28	Oil-free hyaluronic acid matrix for serial femtosecond crystallography. Scientific Reports, 2016, 6, 24484.	3.3	46
29	Membrane protein structure determination by SAD, SIR, or SIRAS phasing in serial femtosecond crystallography using an iododetergent. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13039-13044.	7.1	43
30	Redox-coupled structural changes in nitrite reductase revealed by serial femtosecond and microfocus crystallography. Journal of Biochemistry, 2016, 159, 527-538.	1.7	26
31	Redox-coupled proton transfer mechanism in nitrite reductase revealed by femtosecond crystallography. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2928-2933.	7.1	88
32	An isomorphous replacement method for efficient de novo phasing for serial femtosecond crystallography. Scientific Reports, 2015, 5, 14017.	3.3	54
33	X-ray imaging detectors for synchrotron and XFEL sources. IUCrJ, 2015, 2, 371-383.	2.2	78
34	Improving charge-collection efficiency of SOI pixel sensors for X-ray astronomy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 794, 255-259.	1.6	18
35	Native sulfur/chlorine SAD phasing for serial femtosecond crystallography. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 2519-2525.	2.5	51
36	Data acquisition system for X-ray free-electron laser experiments at SACLA. Journal of Synchrotron Radiation, 2015, 22, 571-576.	2.4	41

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37	Diverse application platform for hard X-ray diffraction in SACLA (DAPHNIS): application toÂserial protein crystallography using an X-ray free-electron laser. Journal of Synchrotron Radiation, 2015, 22, 532-537.	2.4	80
38	Analysis of Effective Gate Length Modulation by X-Ray Irradiation for Fully Depleted SOI p-MOSFETs. IEEE Transactions on Electron Devices, 2015, 62, 2371-2376.	3.0	15
39	Grease matrix as a versatile carrier of proteins for serial crystallography. Nature Methods, 2015, 12, 61-63.	19.0	193
40	Data acquisition system of over Giga-Bps of data rate for user experiment at X-ray Free-Electron Laser facility SACLA. , 2014, , .		1
41	Development of an X-ray pixel detector with multi-port charge-coupled device for X-ray free-electron laser experiments. Review of Scientific Instruments, 2014, 85, 033110.	1.3	224
42	Macromolecular structures probed by combining single-shot free-electron laser diffraction with synchrotron coherent X-ray imaging. Nature Communications, 2014, 5, 3798.	12.8	61
43	Developments of X-ray Imaging Detectors at SACLA/SPring-8: Current Status and Future Outlook. Synchrotron Radiation News, 2014, 27, 20-23.	0.8	9
44	Development of Experimental Methodology for Highly Efficient Wafer-Level Evaluation of X-Ray Radiation Effects on Semiconductor Devices. IEEE Transactions on Nuclear Science, 2014, 61, 1444-1450.	2.0	8
45	<i>In vivo</i> crystallography at X-ray free-electron lasers: the next generation of structural biology?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130497.	4.0	39
46	Single-shot three-dimensional structure determination of nanocrystals with femtosecond X-ray free-electron laser pulses. Nature Communications, 2014, 5, 4061.	12.8	91
47	Multiple application X-ray imaging chamber for single-shot diffraction experiments with femtosecond X-ray laser pulses. Journal of Applied Crystallography, 2014, 47, 188-197.	4.5	49
48	Decoupling Architecture for All-to-all Computation. , 2014, , .		0
49	Femtosecond x-ray absorption spectroscopy with hard x-ray free electron laser. Applied Physics Letters, 2013, 103, .	3.3	70
50	Transmission-grating spectrometer for highly efficient and high-resolution soft X-ray emission studies. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 155-160.	1.7	9
51	Deep Inner-Shell Multiphoton Ionization by Intense X-Ray Free-Electron Laser Pulses. Physical Review Letters, 2013, 110, 173005.	7.8	136
52	Evaluation of data-acquisition front ends for handling high-bandwidth data from X-ray 2D detectors: A feasibility study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 731, 229-233.	1.6	7
53	Theoretical study on valence excitations of multiply ionized states for envelope measurement of x-ray free-electron-laser pulses. Physical Review A, 2013, 87, .	2.5	0
54	Double Core-Hole Creation by Sequential Attosecond Photoionization. Physical Review Letters, 2013, 111, 043001.	7.8	55

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55	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.	1.5	50
56	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
5 7	High-speed classification of coherent X-ray diffractionÂpatterns on the K computer for high-resolution single biomolecule imaging. Journal of Synchrotron Radiation, 2013, 20, 899-904.	2.4	6
58	Full-coherent free electron laser seeded by 13th- and 15th-order harmonics of near-infrared femtosecond laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164006.	1.5	2
59	A photodiode amplifier system for pulse-by-pulse intensity measurement of an x-ray free electron laser. Review of Scientific Instruments, 2012, 83, 043108.	1.3	11
60	Interplay of strong chemical bonds and the repulsive Coulomb force in the metastable states of triply ionized homonuclear molecules: A theoretical study of N23+and O23+. Physical Review A, 2012, 85, .	2.5	3
61	Control and data acquisition system for X-ray Free-Electron Laser experiments at SACLA. , 2012, , .		2
62	Undulator commissioning by characterization of radiation in x-ray free electron lasers. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	37
63	A compact X-ray free-electron laser emitting in the sub-ångström region. Nature Photonics, 2012, 6, 540-544.	31.4	1,542
64	Determination of the Pulse Duration of an X-Ray Free Electron Laser Using Highly Resolved Single-Shot Spectra. Physical Review Letters, 2012, 109, 144801.	7.8	162
65	Progress of FD-SOI technology for monolithic pixel detectors. , 2012, , .		11
66	Effect of Ultrahigh-Density Ionization of Resist Films on Sensitivity Using Extreme-Ultraviolet Free-Electron Laser. Applied Physics Express, 2012, 5, 096701.	2.4	2
67	Extreme ultraviolet free electron laser seeded with high-order†harmonic of Ti:sapphire laser. Optics Express, 2011, 19, 317.	3.4	123
68	Site-specific intermolecular interaction in α-phase crystalline films of phthalocyanines studied by soft x-ray emission spectroscopy. Journal of Chemical Physics, 2011, 135, 034704.	3.0	4
69	Inner-shell spectroscopy and exchange interaction of Rydberg electrons bound by singly and doubly charged Kr and Xe atoms in small clusters. Journal of Electron Spectroscopy and Related Phenomena, 2011, 183, 29-35.	1.7	15
70	Development of SOI pixel process technology. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 636, S31-S36.	1.6	142
71	Radiation Properties of SPring-8 XFEL (SACLA) and Developments in User-experiment Facilities. Hyomen Kagaku, 2011, 32, 433-438.	0.0	0
72	Developments of SOI monolithic pixel detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 623, 186-188.	1.6	76

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73	Development of a liquid flow cell to measure soft X-ray absorption in transmission mode: A test for liquid water. Journal of Electron Spectroscopy and Related Phenomena, 2010, 177, 130-134.	1.7	84
74	Systematic Study of Soft X-ray Spectra of Poly(Dg)·Poly(Dc) and Poly(Da)·Poly(Dt) DNA Duplexes. Journal of Physical Chemistry B, 2010, 114, 7016-7021.	2.6	24
75	Electronic state observation of inner organic thin films beneath electrodes: Fluorescence-yield X-ray absorption spectra of pentacene derivative films. Journal of Electron Spectroscopy and Related Phenomena, 2009, 174, 93-99.	1.7	2
76	Exchange interaction in Kr 3d excitations of small krypton clusters. Journal of Electron Spectroscopy and Related Phenomena, 2008, 166-167, 16-20.	1.7	7
77	Electronic states of the DNA polynucleotides poly(dG)-poly(dC) in the presence of iodine. Physical Review B, 2007, 75, .	3.2	16
78	Design of a novel transmission-grating spectrometer for soft X-ray emission studies. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 1059-1062.	1.7	12
79	S 2p excited states of OCS in rare gas matrices. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 87-89.	1.7	0
80	Photoionization of small krypton clusters in the Kr 3d regime: Evidence for site-specific photoemission. Journal of Chemical Physics, 2005, 123, 154304.	3.0	42
81	Electronic Structure of Bases in DNA Duplexes Characterized byResonant Photoemission Spectroscopy Near the Fermi Level. Physical Review Letters, 2004, 93, 086403.	7.8	33
82	Design of a transmission grating spectrometer and an undulator beamline for soft x-ray emission studies. AIP Conference Proceedings, 2004, , .	0.4	38
83	Spin-forbidden shake-up states of OCS molecule studied by resonant photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 351-355.	1.7	7
84	Ar 2p excited states of argon in non-polar media. Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 435-439.	1.7	6
85	Metal-to-ligand charge transfer in polarized metal L-edge X-ray absorption of Ni and Cu complexes. Journal of Electron Spectroscopy and Related Phenomena, 2004, 136, 67-75.	1.7	9
86	Cu L2,3-edge X-ray absorption spectra of (2,5-dimethyl-N,N′-dicyanoquinonediimine)2Li1â^'xCux alloys. Chemical Physics, 2004, 298, 189-193.	1.9	2
87	Angle-resolved photoion spectroscopy of NO2 and SO2. Chemical Physics, 2003, 289, 15-29.	1.9	41
88	Structures and Acidâ^'Base Properties of La/Al2O3 Role of La Addition to Enhance Thermal Stability of γ-Al2O3. Chemistry of Materials, 2003, 15, 4830-4840.	6.7	74
89	Double and triple excitations near theK-shell ionization threshold ofN2revealed by symmetry-resolved spectroscopy. Physical Review A, 2002, 66, .	2.5	32
90	Valence excitations observed in resonant soft X-ray emission spectra of K2Ni(CN)4·H2O at the Ni 2p edge. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 909-913.	1.7	3

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91	Synthesis of troponoid analogues of calix[4]arene by the reaction of dichlorocarbene with calix[4]arene. Tetrahedron Letters, 2001, 42, 6855-6858.	1.4	2
92	Sulfur K-edge X-ray absorption spectra for BETS and BEDT-TTF charge transfer salts: a novel probe for the determination of hole concentration. Chemical Physics Letters, 2000, 330, 309-314.	2.6	3
93	Metal-to-ligand charge transfer bands observed in polarized Ni 2p photoabsorption spectra of [Ni(mnt)2]2â^'. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 827-832.	1.7	4
94	Strong metal-to-ligand charge transfer bands observed in NiK- andL-edge XANES of planar Ni complexes. Journal of Synchrotron Radiation, 1999, 6, 376-378.	2.4	14
95	Polarized NiK- andL-edge and SK-edge XANES study of [Ni(III)(mnt)2]1â^'. Journal of Synchrotron Radiation, 1999, 6, 379-380.	2.4	5
96	A unified view of resonant photoemission of metallic, molecular, and correlated solid systems. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 443-447.	1.7	8
97	Ni 2p–3d photoabsorption and strong charge transfer satellites in divalent Ni complexes with molecular ligands. Evaluation of π-back donation based on the density functional theory approach. Chemical Physics Letters, 1999, 311, 299-305.	2.6	19
98	Strong metal-to-ligand charge transfer bands in Ni 2p photoabsorption of K2Ni(CN)4·H2O. Chemical Physics Letters, 1998, 284, 320-324.	2.6	19
99	Ni 2p resonant photoelectron spectra of some planar nickel complexes. Journal of Electron Spectroscopy and Related Phenomena, 1998, 88-91, 235-239.	1.7	3
100	Ni 2p excitation spectra of some planar Ni complexes. Journal of Electron Spectroscopy and Related Phenomena, 1998, 88-91, 405-409.	1.7	10
101	Resonant behavior in Ni 3d, 3p and 3s photoelectron spectra at the Ni 2p excitation of planar molecular complex, nickel dimethylglyoxime. Journal of Electron Spectroscopy and Related Phenomena, 1998, 93, 109-113.	1.7	1