Makina Yabashi

List of Publications by Citations

594 papers	16,340 citations	60 h-index	104 g-index
665 ext. papers	18,582 ext. citations	4.9 avg, IF	5.91 L-index

#	Paper	IF	Citations
594	A compact X-ray free-electron laser emitting in the sub-ångström region. *Nature Photonics*, **2012**, 6, 540-544	33.9	1248
593	Breaking the 10 nm barrier in hard-X-ray focusing. *Nature Physics*, **2010**, 6, 122-125	16.2	413
592	Light-induced structural changes and the site of O=O bond formation in PSII caught by XFEL. *Nature*, **2017**, 543, 131-135	50.4	400
591	A compact free-electron laser for generating coherent radiation in the extreme ultraviolet region. *Nature Photonics*, **2008**, 2, 555-559	33.9	366
590	High resolution-high energy x-ray photoelectron spectroscopy using third-generation synchrotron radiation source, and its application to Si-high k insulator systems. *Applied Physics Letters*, **2003**, 83, 1005-1007	3.4	316
589	A three-dimensional movie of structural changes in bacteriorhodopsin. *Science*, **2016**, 354, 1552-1557	33.3	262
588	Determination of damage-free crystal structure of an X-ray-sensitive protein using an XFEL. *Nature Methods*, **2014**, 11, 734-6	21.6	204
587	Focusing of X-ray free-electron laser pulses with reflective optics. *Nature Photonics*, **2013**, 7, 43-47	33.9	195
586	Beamline, experimental stations and photon beam diagnostics for the hard x-ray free electron laser of SACLA. *New Journal of Physics*, **2013**, 15, 083035	2.9	188
585	Direct observation of bond formation in solution with femtosecond X-ray scattering. *Nature*, **2015**, 518, 385-9	50.4	173
584	Efficient focusing of hard x rays to 25nm by a total reflection mirror. *Applied Physics Letters*, **2007**, 90, 051903	3.4	173
583	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	1.7	172
582	SPring-8 RIKEN beamline III for coherent X-ray optics. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2001**, 467-468, 686-689	1.2	156
581	Grease matrix as a versatile carrier of proteins for serial crystallography. *Nature Methods*, **2015**, 12, 61-3	21.6	154
580	Imaging live cell in micro-liquid enclosure by X-ray laser diffraction. *Nature Communications*, **2014**, 5, 3052	17.4	149
579	An oxyl/oxo mechanism for oxygen-oxygen coupling in PSII revealed by an x-ray free-electron laser. *Science*, **2019**, 366, 334-338	33.3	143
578	X-ray two-photon absorption competing against single and sequential multiphoton processes. *Nature Photonics*, **2014**, 8, 313-316	33.9	143

577	Two-colour hard X-ray free-electron laser with wide tunability. *Nature Communications*, **2013**, 4, 2919	17.4	138
576	Determination of the pulse duration of an x-ray free electron laser using highly resolved single-shot spectra. *Physical Review Letters*, **2012**, 109, 144801	7.4	135
575	Nature of the well screened state in hard X-ray Mn 2p core-level photoemission measurements of La1-xSrxMnO3 films. *Physical Review Letters*, **2004**, 93, 236401	7.4	130
574	Visualizing the non-equilibrium dynamics of photoinduced intramolecular electron transfer with femtosecond X-ray pulses. *Nature Communications*, **2015**, 6, 6359	17.4	120
573	Microstitching interferometry for x-ray reflective optics. *Review of Scientific Instruments*, **2003**, 74, 2894-2898	1.7	117
572	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	1.2	111
571	Deep inner-shell multiphoton ionization by intense x-ray free-electron laser pulses. *Physical Review Letters*, **2013**, 110, 173005	7.4	110
570	Atomic inner-shell laser at 1.5-ångström wavelength pumped by an X-ray free-electron laser. *Nature*, **2015**, 524, 446-9	50.4	106
569	Generation of 10(20) W cm(-2) hard X-ray laser pulses with two-stage reflective focusing system. *Nature Communications*, **2014**, 5, 3539	17.4	105
568	Single-nanometer focusing of hard x-rays by Kirkpatrick-Baez mirrors. *Journal of Physics Condensed Matter*, **2011**, 23, 394206	1.8	102
567	Overview of the SACLA facility. *Journal of Synchrotron Radiation*, **2015**, 22, 477-84	2.4	97
566	A probe of intrinsic valence band electronic structure: Hard x-ray photoemission. *Applied Physics Letters*, **2004**, 84, 4310-4312	3.4	95
565	Relative angle determinable stitching interferometry for hard x-ray reflective optics. *Review of Scientific Instruments*, **2005**, 76, 045102	1.7	93
564	Evidence for suppressed screening on the surface of high temperature La(2-x)SrxCuO4 and Nd2(2-x)CexCuO4 superconductors. *Physical Review Letters*, **2005**, 95, 177002	7.4	92
563	Extreme ultraviolet free electron laser seeded with high-order harmonic of Ti:sapphire laser. *Optics Express*, **2011**, 19, 317-24	3.3	91
562	X-ray monochromator with an energy resolution of 8×10⁻⁹ at 14.41 keV. *Review of Scientific Instruments*, **2001**, 72, 4080-4083	1.7	91
561	Recoil effects of photoelectrons in a solid. *Physical Review B*, **2007**, 75,	3.3	90
560	Strong valence fluctuation in the quantum critical heavy fermion superconductor YbAlB4: a hard x-ray photoemission study. *Physical Review Letters*, **2010**, 104, 247201	7.4	88

559	Fabrication of elliptical mirror at nanometer-level accuracy for hard x-ray focusing by numerically controlled plasma chemical vaporization machining. *Review of Scientific Instruments*, **2003**, 74, 4549-4553	1.7	87
558	Bulk screening in core-level photoemission from Mott-Hubbard and charge-transfer systems. *Physical Review B*, **2005**, 71,	3.3	87
557	Design of a beamline for the SPring-8 long undulator source 1. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2001**, 467-468, 678-681	1.2	87
556	Characterization of the transverse coherence of hard synchrotron radiation by intensity interferometry. *Physical Review Letters*, **2001**, 87, 140801	7.4	87
555	Hard X-ray Diffraction-Limited Nanofocusing with Kirkpatrick-Baez Mirrors. *Japanese Journal of Applied Physics*, **2005**, 44, L539-L542	1.4	86
554	Ultrafast energy- and momentum-resolved dynamics of magnetic correlations in the photo-doped Mott insulator Sr2IrO4. *Nature Materials*, **2016**, 15, 601-5	27	86
553	X-ray second harmonic generation. *Physical Review Letters*, **2014**, 112, 163901	7.4	85
552	Revisiting the valence-band and core-level photoemission spectra of NiO. *Physical Review Letters*, **2008**, 100, 206401	7.4	85
551	Single-shot beam-position monitor for x-ray free electron laser. *Review of Scientific Instruments*, **2011**, 82, 023108	1.7	82
550	Fe3□ZnxO4 thin film as tunable high Curie temperature ferromagnetic semiconductor. *Applied Physics Letters*, **2006**, 89, 242507	3.4	82
549	Compact XFEL and AMO sciences: SACLA and SCSS. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2013**, 46, 164001	1.3	80
548	Photoemission evidence for a Mott-Hubbard metal-insulator transition in VO2. *Physical Review B*, **2008**, 78,	3.3	80
547	Development of hard X-ray photoelectron spectroscopy at BL29XU in SPring-8. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2005**, 547, 50-55	1.2	80
546	Electronic structures of Fe3□MxO4 (M=Mn,Zn) spinel oxide thin films investigated by x-ray photoemission spectroscopy and x-ray magnetic circular dichroism. *Physical Review B*, **2007**, 76,	3.3	79
545	Elemental mapping of frozen-hydrated cells with cryo-scanning X-ray fluorescence microscopy. *X-Ray Spectrometry*, **2010**, 39, 260-266	0.9	76
544	Development of scanning x-ray fluorescence microscope with spatial resolution of 30nm using Kirkpatrick-Baez mirror optics. *Review of Scientific Instruments*, **2006**, 77, 103102	1.7	75
543	Saturable absorption of intense hard X-rays in iron. *Nature Communications*, **2014**, 5, 5080	17.4	74
542	Single-shot three-dimensional structure determination of nanocrystals with femtosecond X-ray free-electron laser pulses. *Nature Communications*, **2014**, 5, 4061	17.4	74

541	A beam branching method for timing and spectral characterization of hard X-ray free-electron lasers. *Structural Dynamics*, **2016**, 3, 034301	3.2	72
540	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, 2928-33	11.5	71
539	Valence transition of YbInCu4 observed in hard X-ray photoemission spectra. *Physical Review Letters*, **2004**, 93, 246404	7.4	71
538	Coexistence of strongly mixed-valence and heavy-fermion character in SmOs4Sb12 studied by soft- and hard-X-ray spectroscopy. *Physical Review Letters*, **2007**, 98, 156402	7.4	67
537	Observation of femtosecond X-ray interactions with matter using an X-ray-X-ray pump-probe scheme. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 1492-7	11.5	65
536	Single shot coherence properties of the free-electron laser SACLA in the hard X-ray regime. *Scientific Reports*, **2014**, 4, 5234	4.9	64
535	Diverse application platform for hard X-ray diffraction in SACLA (DAPHNIS): application to serial protein crystallography using an X-ray free-electron laser. *Journal of Synchrotron Radiation*, **2015**, 22, 532-7	2.4	62
534	Femtosecond x-ray absorption spectroscopy with hard x-ray free electron laser. *Applied Physics Letters*, **2013**, 103, 131105	3.4	60
533	Element array by scanning X-ray fluorescence microscopy after cis-diamminedichloro-platinum(II) treatment. *Cancer Research*, **2005**, 65, 4998-5002	10.1	60
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531	50-nm-resolution full-field X-ray microscope without chromatic aberration using total-reflection imaging mirrors. *Scientific Reports*, **2017**, 7, 46358	4.9	59
530	Fabrication of elliptically figured mirror for focusing hard x rays to size less than 50nm. *Review of Scientific Instruments*, **2005**, 76, 063708	1.7	59
529	The prominent 5d-orbital contribution to the conduction electrons in gold. *New Journal of Physics*, **2010**, 12, 043045	2.9	58
528	Horizon 2020 EuPRAXIA design study. *Journal of Physics: Conference Series*, **2017**, 874, 012029	0.3	57
527	Second-order autocorrelation of XUV FEL pulses via time resolved two-photon single ionization of He. *Optics Express*, **2011**, 19, 21698-706	3.3	57
526	A soft X-ray free-electron laser beamline at SACLA: the light source, photon beamline and experimental station. *Journal of Synchrotron Radiation*, **2018**, 25, 282-288	2.4	57
525	Hydroxyethyl cellulose matrix applied to serial crystallography. *Scientific Reports*, **2017**, 7, 703	4.9	55
524	Evidence for a correlated insulator to antiferromagnetic metal transition in CrN. *Physical Review Letters*, **2010**, 104, 236404	7.4	55

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522	Stable operation of a self-amplified spontaneous-emission free-electron laser in the extremely ultraviolet region. *Physical Review Special Topics: Accelerators and Beams*, **2009**, 12,		54
521	Construction and Commissioning of A 248 m-long Beamline with X-ray Undulator Light Source. *AIP Conference Proceedings*, **2004**,	0	54
520	Nearly diffraction-limited line focusing of a hard-X-ray beam with an elliptically figured mirror. *Journal of Synchrotron Radiation*, **2002**, 9, 313-6	2.4	54
519	High-resolution X-ray monochromators. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2005**, 547, 42-49	1.2	54
518	The next ten years of X-ray science. *Nature Photonics*, **2017**, 11, 12-14	33.9	53
517	Pulse energy measurement at the hard x-ray laser in Japan. *Applied Physics Letters*, **2012**, 101, 023503	3.4	53
516	A nanosecond time-resolved XFEL analysis of structural changes associated with CO release from cytochrome c oxidase. *Science Advances*, **2017**, 3, e1603042	14.3	52
515	Capturing an initial intermediate during the P450nor enzymatic reaction using time-resolved XFEL crystallography and caged-substrate. *Nature Communications*, **2017**, 8, 1585	17.4	52
514	Macromolecular structures probed by combining single-shot free-electron laser diffraction with synchrotron coherent X-ray imaging. *Nature Communications*, **2014**, 5, 3798	17.4	52
513	Nanoplasma Formation by High Intensity Hard X-rays. *Scientific Reports*, **2015**, 5, 10977	4.9	51
512	Double core-hole creation by sequential attosecond photoionization. *Physical Review Letters*, **2013**, 111, 043001	7.4	50
511	Trace element mapping of a single cell using a hard x-ray nanobeam focused by a Kirkpatrick-Baez mirror system. *X-Ray Spectrometry*, **2009**, 38, 89-94	0.9	50
510	At-wavelength figure metrology of hard x-ray focusing mirrors. *Review of Scientific Instruments*, **2006**, 77, 063712	1.7	50
509	Nuclear resonant scattering beamline at SPring-8. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2001**, 467-468, 715-718	1.2	50
508	The brightest x-ray source: A very long undulator at SPring-8. *Review of Scientific Instruments*, **2002**, 73, 1125-1128	1.7	50
507	An isomorphous replacement method for efficient de novo phasing for serial femtosecond crystallography. *Scientific Reports*, **2015**, 5, 14017	4.9	49
506	Focusing mirror for x-ray free-electron lasers. *Review of Scientific Instruments*, **2008**, 79, 083104	1.7	49

505	Bulk electronic structure of Na0.35CoO2?1.3H2O. *Physical Review B*, **2004**, 69,	3.3	49
504	Anomalous signal from S atoms in protein crystallographic data from an X-ray free-electron laser. *Acta Crystallographica Section D: Biological Crystallography*, **2013**, 69, 838-42		48
503	Multiphoton double ionization of Ar in intense extreme ultraviolet laser fields studied by shot-by-shot photoelectron spectroscopy. *Physical Review Letters*, **2010**, 105, 133001	7.4	48
502	Ultraviolet photochemical reaction of [Fe(III)(C2O4)3](3-) in aqueous solutions studied by femtosecond time-resolved X-ray absorption spectroscopy using an X-ray free electron laser. *Structural Dynamics*, **2015**, 2, 034901	3.2	46
501	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	3.8	46
500	Native sulfur/chlorine SAD phasing for serial femtosecond crystallography. *Acta Crystallographica Section D: Biological Crystallography*, **2015**, 71, 2519-25		46
499	A Bragg beam splitter for hard x-ray free-electron lasers. *Optics Express*, **2013**, 21, 2823-31	3.3	46
498	Recoil effect of photoelectrons in the Fermi edge of simple metals. *Physical Review Letters*, **2008**, 101, 137601	7.4	46
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496	Wavelength-tunable split-and-delay optical system for hard X-ray free-electron lasers. *Optics Express*, **2016**, 24, 9187-201	3.3	45
495	Wavefront measurement for a hard-X-ray nanobeam using single-grating interferometry. *Optics Express*, **2012**, 20, 24977-86	3.3	45
494	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, 2944-9	6.4	43
493	Generation of narrow-band X-ray free-electron laser via reflection self-seeding. *Nature Photonics*, **2019**, 13, 319-322	33.9	42
492	Femtosecond time-resolved X-ray absorption spectroscopy of liquid using a hard X-ray free electron laser in a dual-beam dispersive detection method. *Optics Express*, **2014**, 22, 1105-13	3.3	42
491	Dissociative two-photon ionization of N2 in extreme ultraviolet by intense self-amplified spontaneous emission free electron laser light. *Applied Physics Letters*, **2008**, 92, 154103	3.4	42
490	Development of a scanning tunneling microscope for in situ experiments with a synchrotron radiation hard-X-ray microbeam. *Journal of Synchrotron Radiation*, **2006**, 13, 216-20	2.4	42
489	Time-resolved HAXPES at SACLA: probe and pump pulse-induced space-charge effects. *New Journal of Physics*, **2014**, 16, 123045	2.9	41
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487	Electron correlation in the FeSe superconductor studied by bulk-sensitive photoemission spectroscopy. *Physical Review B*, **2010**, 82,	3.3	41
486	Single-shot spectrometry for x-ray free-electron lasers. *Physical Review Letters*, **2006**, 97, 084802	7.4	41
485	Crystal Structures of Human Orexin 2 Receptor Bound to the Subtype-Selective Antagonist EMPA. *Structure*, **2018**, 26, 7-19.e5	5.2	41
484	Photoelectron diffraction from laser-aligned molecules with X-ray free-electron laser pulses. *Scientific Reports*, **2015**, 5, 14065	4.9	39
483	Multi-coincidence ion detection system for EUV FEL fragmentation experiments at SPring-8. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2009**, 606, 770-773	1.2	39
482	Electronic structure of CeRu2X2 (X=Si,Ge) in the paramagnetic phase studied by soft x-ray ARPES and hard x-ray photoelectron spectroscopy. *Physical Review B*, **2008**, 77,	3.3	39
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480	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	11.5	38
479	Dead-time-free ion momentum spectroscopy of multiple ionization of Xe clusters irradiated by euv free-electron laser pulses. *Physical Review A*, **2009**, 79,	2.6	38
478	Frustration of direct photoionization of Ar clusters in intense extreme ultraviolet pulses from a free electron laser. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2009**, 42, 134019	1.3	38
477	Oil-free hyaluronic acid matrix for serial femtosecond crystallography. *Scientific Reports*, **2016**, 6, 24484	4.9	38
476	Femtosecond time-resolved X-ray absorption spectroscopy of anatase TiO nanoparticles using XFEL. *Structural Dynamics*, **2017**, 4, 044033	3.2	37
475	Tracking multiple components of a nuclear wavepacket in photoexcited Cu(I)-phenanthroline complex using ultrafast X-ray spectroscopy. *Nature Communications*, **2019**, 10, 3606	17.4	37
474	Spectroscopic evidence for competing reconstructions in polar multilayers LaAlO3/LaVO3/LaAlO3. *Physical Review Letters*, **2009**, 102, 236401	7.4	37
473	Measurement of x-ray pulse widths by intensity interferometry. *Physical Review Letters*, **2002**, 88, 244801	7.4	37
472	Highly efficient arrival timing diagnostics for femtosecond X-ray and optical laser pulses. *Applied Physics Express*, **2015**, 8, 012702	2.4	36
471	Enhanced nonlinear double excitation of He in intense extreme ultraviolet laser fields. *Physical Review Letters*, **2011**, 107, 243003	7.4	36
470	Charge dynamics in strongly correlated one-dimensional Cu-O chain systems revealed by inelastic x-ray scattering. *Physical Review B*, **2005**, 72,	3.3	36

469	Wave-optical evaluation of interference fringes and wavefront phase in a hard-x-ray beam totally reflected by mirror optics. *Applied Optics*, **2005**, 44, 6927-32	1.7	36
468	X-ray resonance in crystal cavities: realization of Fabry-Perot resonator for hard x rays. *Physical Review Letters*, **2005**, 94, 174801	7.4	36
467	Development of plasma chemical vaporization machining and elastic emission machining systems for coherent x-ray optics **2001**, 4501, 30		36
466	Data acquisition system for X-ray free-electron laser experiments at SACLA. *Journal of Synchrotron Radiation*, **2015**, 22, 571-6	2.4	35
465	High-precision x-ray FEL pulse arrival time measurements at SACLA by a THz streak camera with Xe clusters. *Optics Express*, **2014**, 22, 30004-12	3.3	35
464	Observation of free-electron-laser-induced collective spontaneous emission (superfluorescence). *Physical Review Letters*, **2011**, 107, 193603	7.4	35
463	Multiple ionization of atomic argon irradiated by EUV free-electron laser pulses at 62 nm: evidence of sequential electron strip. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2009**, 42, 221003	1.3	35
462	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	1.2	35
461	Microcrystal delivery by pulsed liquid droplet for serial femtosecond crystallography. *Acta Crystallographica Section D: Structural Biology*, **2016**, 72, 520-3	5.5	35
460	Role of Ti 3d carriers in mediating the ferromagnetism of Co:TiO2 anatase thin films. *Physical Review Letters*, **2011**, 106, 047602	7.4	34
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457	1-km beamline at SPring-8 **2001**,		33
456	Dynamics of Photoelectrons and Structural Changes of Tungsten Trioxide Observed by Femtosecond Transient XAFS. *Angewandte Chemie - International Edition*, **2016**, 55, 1364-7	16.4	33
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445	Dynamic fracture of tantalum under extreme tensile stress. *Science Advances*, **2017**, 3, e1602705	14.3	30
444	Nonsequential two-photon absorption from the K shell in solid zirconium. *Physical Review A*, **2016**, 94,	2.6	30
443	Undulator commissioning by characterization of radiation in x-ray free electron lasers. *Physical Review Special Topics: Accelerators and Beams*, **2012**, 15,		29
442	Nanofocusing of X-ray free-electron laser using wavefront-corrected multilayer focusing mirrors. *Scientific Reports*, **2018**, 8, 17440	4.9	29
441	Mapping the emergence of molecular vibrations mediating bond formation. *Nature*, **2020**, 582, 520-524	50.4	28
440	Polarization control of an X-ray free-electron laser with a diamond phase retarder. *Journal of Synchrotron Radiation*, **2014**, 21, 466-72	2.4	28
439	Sequential Single Shot X-ray Photon Correlation Spectroscopy at the SACLA Free Electron Laser. *Scientific Reports*, **2015**, 5, 17193	4.9	28
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437	Nearly diffraction-limited X-ray focusing with variable-numerical-aperture focusing optical system based on four deformable mirrors. *Scientific Reports*, **2016**, 6, 24801	4.9	28
436	Multi-wavelength anomalous diffraction de novo phasing using a two-colour X-ray free-electron laser with wide tunability. *Nature Communications*, **2017**, 8, 1170	17.4	27
435	Fluence scan: an unexplored property of a laser beam. *Optics Express*, **2013**, 21, 26363-75	3.3	27
434	Anomalous state sandwiched between Fermi liquid and charge ordered Mott-insulating phases of Ti4O7. *Physical Review Letters*, **2010**, 104, 106401	7.4	27

433	Kondo lattice effects and the collapse of lattice coherence in Yb1−xLuxB12 studied by hard x-ray photoelectron spectroscopy. *Physical Review B*, **2009**, 79,	3.3	27
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429	3D visualization of XFEL beam focusing properties using LiF crystal X-ray detector. *Scientific Reports* , **2015**, 5, 17713	4.9	27
428	Direct observation of picosecond melting and disintegration of metallic nanoparticles. *Nature Communications*, **2019**, 10, 2411	17.4	26
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