Libor Juha

List of Publications by Year
in descending order

260 papers	4,640 citations	117571 34 h-index	138417 58 g-index
263 all docs	263 docs citations	263 times ranked	3329 citing authors

#	Article	IF	Citations
1	Characterizing the Grating-like Nanostructures Formed on BaF2 Surfaces Exposed to Extreme Ultraviolet Laser Radiation. Applied Sciences (Switzerland), 2022, 12, 1251.	1.3	0
2	Nitrogen Oxide Production in Laserâ€Induced Breakdown Simulating Impacts on the Hadean Atmosphere. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	5
3	Real-time spatial characterization of micrometer-sized X-ray free-electron laser beams focused by bendable mirrors. Optics Express, 2022, 30, 20980.	1.7	6
4	An interplay of various damage channels in polyethylene exposed to ultra-short XUV/X-ray pulses. Physical Chemistry Chemical Physics, 2021, 23, 16193-16205.	1.3	7
5	Design of modular multi-channel electron spectrometers for application in laser matter interaction experiments at Prague Asterix Laser System. Review of Scientific Instruments, 2021, 92, 023514.	0.6	6
6	2D MHD simulation of spontaneous magnetic fields generated during interaction of 1315.2-nm laser radiation with copper slabs at 1016 W/cm2. Physics of Plasmas, 2021, 28, .	0.7	3
7	Effects of radiation damage and inelastic scattering on single-particle imaging of hydrated proteins with an X-ray Free-Electron Laser. Scientific Reports, 2021, 11, 17976.	1.6	7
8	Complex interferometry of magnetized plasma: Accuracy and limitations. Physics of Plasmas, 2021, 28, .	0.7	1
9	Dose Rate Effects in Fluorescence Chemical Dosimeters Exposed to Picosecond Electron Pulses: An Accurate Measurement of Low Doses at High Dose Rates. Radiation Research, 2021, 197, .	0.7	2
10	Microscopic Kinetics in Poly(Methyl Methacrylate) Exposed to a Single Ultra-Short XUV/X-ray Laser Pulse. Molecules, 2021, 26, 6701.	1.7	8
11	Chemical Consequences of XUV/X-ray Laser-Matter Interactions. Molecules, 2021, 26, 6833.	1.7	0
12	Identifiable Acetylene Features Predicted for Young Earth-like Exoplanets with Reducing Atmospheres Undergoing Heavy Bombardment. Astrophysical Journal, 2020, 888, 21.	1.6	25
13	The Small Quantum System (SQS) Instrument at European XFEL: Results of commissioning and first experiments. Journal of Physics: Conference Series, 2020, 1412, 112005.	0.3	3
14	One-Pot Hydrogen Cyanide-Based Prebiotic Synthesis of Canonical Nucleobases and Glycine Initiated by High-Velocity Impacts on Early Earth. Astrobiology, 2020, 20, 1476-1488.	1.5	24
15	Subthreshold Erosion of an Organic Polymer Induced by Multiple Shots of an X-Ray Free-Electron Laser. Physical Review Applied, 2020, 14, .	1.5	3
16	Time-Resolved XUV Opacity Measurements of Warm Dense Aluminum. Physical Review Letters, 2020, 124, 225002.	2.9	15
17	Chemical Dosimetry in the â€œWater Windowâ€: Ferric Ions and Hydroxyl Radicals Produced by Intense Soft X Rays. Radiation Research, 2020, 193, 372.	0.7	5
18	Detachment of epitaxial graphene from SiC substrate by XUV laser radiation. Carbon, 2020, 161, 36-43.	5.4	3

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19	Soft X-ray laser ablation for nano-scale chemical mapping microanalysis. Journal of Analytical Atomic Spectrometry, 2020, 35, 1051-1070.	1.6	8
20	Formic Acid, a Ubiquitous but Overlooked Component of the Early Earth Atmosphere. Chemistry - A European Journal, 2020, 26, 12075-12080.	1.7	15
21	Magnetic field generation using single-plate targets driven by kJ-ns class laser. Plasma Physics and Controlled Fusion, 2020, 62, 125024.	0.9	4
22	Hot electron retention in laser plasma created under terawatt subnanosecond irradiation of Cu targets. Plasma Physics and Controlled Fusion, 2020, 62, 115020.	0.9	13
23	Characterization of megahertz X-ray laser beams by multishot desorption imprints in PMMA. Optics Express, 2020, 28, 25664.	1.7	5
24	Ablation of single-crystalline cesium iodide by extreme ultraviolet capillary-discharge laser. Nukleonika, 2020, 65, 205-210.	0.3	0
25	Iterative algorithm for interferometric retrieval of plasma density in case of considerably inhomogeneous objects. Journal of Physics: Conference Series, 2019, 1197, 012002.	0.3	1
26	Strong Sensitized Ultraviolet Luminescence from Heâ€“C2F4â€“NO Flowing Plasma Afterglow: A Route to Short-Wavelength Gas-Flow Lasers?. Plasma Chemistry and Plasma Processing, 2019, 39, 1115-1126.	1.1	2
27	Time evolution of stimulated Raman scattering and two-plasmon decay at laser intensities relevant for shock ignition in a hot plasma. High Power Laser Science and Engineering, 2019, 7, .	2.0	32
28	Prebiotic synthesis initiated in formaldehyde by laser plasma simulating high-velocity impacts. Astronomy and Astrophysics, 2019, 626, A52.	2.1	35
29	Femtosecond x-ray diffraction can discern nonthermal from thermal melting. Physical Review B, 2019, 99, .	1.1	14
30	Main spectral features of meteors studied using a terawatt-class high-power laser. Astronomy and Astrophysics, 2019, 630, A127.	2.1	16
31	Laser-driven strong shocks with infrared lasers at intensity of 1016 W/cm2. Physics of Plasmas, 2019, 26, 112708.	0.7	18
32	Elaboration of 3-frame complex interferometry for optimization studies of capacitor-coil optical magnetic field generators. Journal of Instrumentation, 2019, 14, C11024-C11024.	0.5	6
33	Aging of Al thin film extreme ultraviolet filters. , 2019, , .		1
34	First commissioning results of the KB mirrors at the SCS instrument of the European XFEL. , 2019, , .		1
35	Clocking Femtosecond Collisional Dynamics via Resonant X-Ray Spectroscopy. Physical Review Letters, 2018, 120, 055002.	2.9	22
36	Measurements of parametric instabilities at laser intensities relevant to strong shock generation. Physics of Plasmas, 2018, 25, .	0.7	23

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37	Experimental study of EUV mirror radiation damage resistance under long-term free-electron laser exposures below the single-shot damage threshold. Journal of Synchrotron Radiation, 2018, 25, 77-84.	1.0	16
38	Wavelength dependence of laser plasma interaction related to shock ignition approach â€“ CORRIGENDUM. Laser and Particle Beams, 2018, 36, 514-514.	0.4	1
39	Wavelength dependence of laser plasma interaction related to shock ignition approach. Laser and Particle Beams, 2018, 36, 405-426.	0.4	6
40	Magnetized plasma implosion in a snail target driven by a moderate-intensity laser pulse. Scientific Reports, 2018, 8, 17895.	1.6	8
41	Response of fusion plasma-facing materials to nanosecond pulses of extreme ultraviolet radiation. Laser and Particle Beams, 2018, 36, 293-307.	0.4	3
42	Micro-Raman mapping of surface changes induced by XUV laser radiation in cadmium telluride. Journal of Alloys and Compounds, 2018, 763, 662-669.	2.8	2
43	Mechanism of single-shot damage of Ru thin films irradiated by femtosecond extreme UV free-electron laser. Optics Express, 2018, 26, 19665.	1.7	20
44	Dose-Rate Effects in Breaking DNA Strands by Short Pulses of Extreme Ultraviolet Radiation. Radiation Research, 2018, 189, 466-476.	0.7	5
45	Damage accumulation in thin ruthenium films induced by repetitive exposure to femtosecond XUV pulses below the single-shot ablation threshold. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2799.	0.9	6
46	Biological Action in and out of the Water Window. Acta Physica Polonica A, 2018, 133, 236-238.	0.2	0
47	Degradation of phospholipids under different types of irradiation and varying oxygen saturation. Radiation and Environmental Biophysics, 2017, 56, 241-247.	0.6	2
48	Synchronizing single-shot high-energy iodine photodissociation laser PALS and high-repetition-rate femtosecond Ti:sapphire laser system. Review of Scientific Instruments, 2017, 88, 045109.	0.6	16
49	At the crossroad of photochemistry and radiation chemistry: formation of hydroxyl radicals in diluted aqueous solutions exposed to ultraviolet radiation. Physical Chemistry Chemical Physics, 2017, 19, 29402-29408.	1.3	15
50	Measurements of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi></mml:math> -Shell Opacity of a Solid-Density Magnesium Plasma Heated by an X-Ray Free-Electron Laser. Physical Review Letters, 2017, 119, 085001.	2.9	15
51	Observation of Reverse Saturable Absorption of an X-ray Laser. Physical Review Letters, 2017, 119, 075002.	2.9	14
52	Precise signal amplitude retrieval for a non-homogeneous diagnostic beam using complex interferometry approach. Journal of Instrumentation, 2017, 12, C08012-C08012.	0.5	1
53	Kinetic magnetization by fast electrons in laser-produced plasmas at sub-relativistic intensities. Physics of Plasmas, 2017, 24, .	0.7	18
54	Contrasting behavior of covalent and molecular carbon allotropes exposed to extreme ultraviolet and soft x-ray free-electron laser radiation. Physical Review B, 2017, 96, .	1.1	12

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55	Saturation of a Ce:Y_3Al_5O_12 scintillator response to ultra-short pulses of extreme ultraviolet soft X-ray and X-ray laser radiation. Optical Materials Express, 2017, 7, 665.	1.6	17
56	Extreme ultraviolet laser ablation mass spectrometry for sensitive materials studies and nanoscale chemical imaging. , 2017, , .		0
57	Role of heat accumulation in the multi-shot damage of silicon irradiated with femtosecond XUV pulses at a 1 MHz repetition rate. Optics Express, 2016, 24, 15468.	1.7	15
58	The argon spectrum in the range of 1200â€“2000 cmâ€“1. Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rgBT /Overloc	0.2	0
59	Measurements of continuum lowering in solid-density plasmas created from elements and compounds. Nature Communications, 2016, 7, 11713.	5.8	99
60	Desorption/ablation of lithium fluoride induced by extreme ultraviolet laser radiation. Nukleonika, 2016, 61, 131-138.	0.3	4
61	Argon FTIR spectra between 800 and 2000 cmâ^'1: h- and i-levels and transition probabilities. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 182, 337-345.	1.1	4
62	Spectroscopic investigations of high-energy-density plasma transformations in a simulated early reducing atmosphere containing methane, nitrogen and water. Physical Chemistry Chemical Physics, 2016, 18, 27317-27325.	1.3	11
63	Photoluminescence excitation of lithium fluoride films by surface plasmon resonance in Kretschmann configuration. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	3
64	DNA strand breaks induced by soft X-ray pulses from a compact laser plasma source. Radiation Physics and Chemistry, 2016, 120, 17-25.	1.4	9
65	Imprinting a Focused X-Ray Laser Beam to Measure Its Full Spatial Characteristics. Physical Review Applied, 2015, 4, .	1.5	23
66	Fluence thresholds for grazing incidence hard x-ray mirrors. Applied Physics Letters, 2015, 106, .	1.5	41
67	FTIR laboratory measurement of Neâ€‰i Rydberg states in 1.43â^'14.3Î¼m spectral range. Astronomy and Astrophysics, 2015, 582, A12.	2.1	5
68	EUV ablation: a study of the process. , 2015, , .		2
69	Soft x-ray laser ablation mass spectrometry for materials study and nanoscale chemical imaging. Proceedings of SPIE, 2015, , .	0.8	0
70	Saturable Absorption of an X-Ray Free-Electron-Laser Heated Solid-Density Aluminum Plasma. Physical Review Letters, 2015, 114, 015003.	2.9	44
71	Investigation of femtosecond collisional ionization rates in a solid-density aluminium plasma. Nature Communications, 2015, 6, 6397.	5.8	73
72	Proton-induced direct and indirect damage of plasmid DNA. Radiation and Environmental Biophysics, 2015, 54, 343-352.	0.6	45

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73	Breaking DNA strands by extreme-ultraviolet laser pulses in vacuum. Physical Review E, 2015, 91, 042718.	0.8	10
74	Radiation induced dechlorination of some chlorinated hydrocarbons in aqueous suspensions of various solid particles. Radiation Physics and Chemistry, 2015, 112, 108-116.	1.4	1
75	Interaction of extreme ultraviolet laser radiation with solid surface: ablation, desorption, nanostructuring. Proceedings of SPIE, 2015, , .	0.8	5
76	Soft x-ray free-electron laser induced damage to inorganic scintillators. Optical Materials Express, 2015, 5, 254.	1.6	11
77	Development of a compact laser-produced plasma soft X-ray source for radiobiology experiments. Nuclear Instruments & Methods in Physics Research B, 2015, 364, 27-32.	0.6	20
78	Material properties of lithium fluoride for predicting XUV laser ablation rate and threshold fluence. , 2015, , .		0
79	Short-wavelength ablation of polymers in the high-fluence regime. Physica Scripta, 2014, T161, 014066.	1.2	6
80	EUV ablation of organic polymers at a high fluence. High Power Laser Science and Engineering, 2014, 2, .	2.0	0
81	Absolute pulse energy measurements of soft x-rays at the Linac Coherent Light Source. Optics Express, 2014, 22, 21214.	1.7	61
82	Zn I spectra in the 1300â€“6500cmâ¯1 range. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 134, 64-73.	1.1	11
83	Langmuir probe measurement of the bismuth plasma plume formed by an extreme-ultraviolet pulsed laser. Journal Physics D: Applied Physics, 2014, 47, 405205.	1.3	11
84	Opacity effects in a solid-density aluminium plasma created by photo-excitation with an X-ray laser. High Energy Density Physics, 2014, 11, 59-69.	0.4	13
85	Laser ablation of an indium target: time-resolved Fourier-transform infrared spectra of In I in the 700â€“7700 cm^{â¯1} range. Journal of Analytical Atomic Spectrometry, 2014, 29, 2275-2283.	1.6	6
86	Results from single shot grazing incidence hard x-ray damage measurements conducted at the SACLA FEL. , 2013, , .		4
87	Photon energy dependence of graphitization threshold for diamond irradiated with an intense XUV FEL pulse. Physical Review B, 2013, 88, .	1.1	33
88	Generation of periodic structures on SiC upon laser plasma XUV/NIR radiations. Laser and Particle Beams, 2013, 31, 547-550.	0.4	1
89	Laser-plasma chemistry: principles and applications. Proceedings of SPIE, 2013, , .	0.8	0
90	Time-resolved Fourier transform infrared spectra of Sr: h-, g-levels and oscillator strengths. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 129, 324-332.	1.1	9

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91	Investigation of damage induced by intense femtosecond XUV pulses in silicon crystals by means of white beam synchrotron section topography. Radiation Physics and Chemistry, 2013, 93, 99-103.	1.4	3
92	Experimental set-up and procedures for the investigation of XUV free electron laser interactions with solids. Journal of Instrumentation, 2013, 8, P02010-P02010.	0.5	12
93	Environmental conditions in near-wall plasmas generated by impact of energetic particle fluxes. High Energy Density Physics, 2013, 9, 568-572.	0.4	4
94	Global sensitivity analysis of the XUV-ABLATOR code. Proceedings of SPIE, 2013, , .	0.8	0
95	Fluence scan: an unexplored property of a laser beam. Optics Express, 2013, 21, 26363.	1.7	30
96	In situ focus characterization by ablation technique to enable optics alignment at an XUV FEL source. Review of Scientific Instruments, 2013, 84, 065104.	0.6	11
97	Resonant<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi><mml:mi>Î±</mml:mi></mml:math>Spectroscopy of Solid-Density Aluminum Plasmas. Physical Review Letters, 2012, 109, 245003.	2.9	58
98	Amorphous to crystalline phase transition in carbon induced by intense femtosecond x-ray free-electron laser pulses. Physical Review B, 2012, 86, .	1.1	34
99	The soft x-ray instrument for materials studies at the linac coherent light source x-ray free-electron laser. Review of Scientific Instruments, 2012, 83, 043107.	0.6	103
100	XUV spectroscopic characterization of warm dense aluminum plasmas generated by the free-electron-laser FLASH. Laser and Particle Beams, 2012, 30, 45-56.	0.4	36
101	Investigating the interaction of x-ray free electron laser radiation with grating structure. Optics Letters, 2012, 37, 3033.	1.7	16
102	On the Road from Formamide Ices to Nucleobases: IR-Spectroscopic Observation of a Direct Reaction between Cyano Radicals and Formamide in a High-Energy Impact Event. Journal of the American Chemical Society, 2012, 134, 20788-20796.	6.6	58
103	Creation and diagnosis of a solid-density plasma with an X-ray free-electron laser. Nature, 2012, 482, 59-62.	13.7	400
104	Direct Measurements of the Ionization Potential Depression in a Dense Plasma. Physical Review Letters, 2012, 109, 065002.	2.9	245
105	Damage mechanisms of MoN/SiN multilayer optics for next-generation pulsed XUV light sources. Optics Express, 2011, 19, 193.	1.7	29
106	Desorption mechanisms in PMMA irradiated by high order harmonics. , 2011, , .		1
107	FEL multilayer optics damaged by multiple shot laser beam: experimental results and discussion. , 2011, , .		1
108	Damage to dry plasmid DNA induced by nanosecond XUV-laser pulses. Proceedings of SPIE, 2011, , .	0.8	1

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109	Ablation of ionic crystals induced by capillary-discharge XUV laser. , 2011, , .		5
110	Efficient surface processing by ultrafast XUV/NIR dual action. , 2011, , .		0
111	X-ray topographic investigation of the deformation field around spots irradiated by FLASH single pulses. Radiation Physics and Chemistry, 2011, 80, 1036-1040.	1.4	3
112	Observation of K-Shell Soft X Ray Emission of Nitrogen Irradiated by XUV-Free Electron Laser FLASH at Intensities Greater than 1016 W/cm2. Contributions To Plasma Physics, 2011, 51, 284-287.	0.5	0
113	TOF-OFF: A method for determining focal positions in tightly focused free-electron laser experiments by measurement of ejected ions. High Energy Density Physics, 2011, 7, 336-342.	0.4	8
114	Damage threshold of amorphous carbon mirror for 177eV FEL radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 635, S39-S42.	0.7	9
115	Comparing different approaches to characterization of focused X-ray laser beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 631, 130-133.	0.7	49
116	Enhanced surface structuring by ultrafast XUV/NIR dual action. New Journal of Physics, 2011, 13, 053049.	1.2	7
117	Saturated ablation in metal hydrides and acceleration of protons and deuterons to keV energies with a soft-x-ray laser. Physical Review E, 2011, 83, 016403.	0.8	24
118	Linac Coherent Light Source soft x-ray materials science instrument optical design and monochromator commissioning. Review of Scientific Instruments, 2011, 82, 093104.	0.6	83
119	Outline of the ELI-Beamlines facility. Proceedings of SPIE, 2011, , .	0.8	17
120	X-ray laser-induced ablation of lead compounds. Proceedings of SPIE, 2011, , .	0.8	10
121	Decay of Cystalline Order and Equilibration during the Solid-to-Plasma Transition Induced by 20-fs Microfocused 92-eV Free-Electron-Laser Pulses. Physical Review Letters, 2011, 106, 164801.	2.9	37
122	Laboratory studies of multi-material radiative astrophysical jets propagation in plasmas. Journal of Physics: Conference Series, 2010, 244, 042011.	0.3	0
123	XUV emission from autoionizing hole states induced by intense XUV-FEL at intensities up to 1017W/cm2. Journal of Physics: Conference Series, 2010, 244, 042028.	0.3	2
124	Plasma emission spectroscopy of solids irradiated by intense XUV pulses from a free electron laser. High Energy Density Physics, 2010, 6, 109-112.	0.4	7
125	Focusing of millijoule picosecond KÎ± radiation from 100 TW laser-solid interaction. Applied Physics Letters, 2010, 96, 151114.	1.5	5
126	Ablative microstructuring with plasma-based XUV lasers and efficient processing of materials by dual action of XUV/NIRâ€“VIS ultrashort pulses. Radiation Effects and Defects in Solids, 2010, 165, 551-558.	0.4	4

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127	Efficient production of 100â€‰keV deuterons in deuterium gas puff Z-pinches at 2â€‰MA current. Plasma Physics and Controlled Fusion, 2010, 52, 065013.	0.9	23
128	Experimental evidence of multimaterial jet formation with lasers. Physics of Plasmas, 2010, 17, .	0.7	10
129	Interaction of short x-ray pulses â€¨with low-Z x-ray optics materials â€¨at the LCLS free-electron laser. Optics Express, 2010, 18, 23933.	1.7	34
130	Spot size characterization of focused non-Gaussian X-ray laser beams. Optics Express, 2010, 18, 27836.	1.7	88
131	Single shot damage mechanism of Mo/Si multilayer optics under intense pulsed XUV-exposure. Optics Express, 2010, 18, 700.	1.7	60
132	Electronic Structure of an XUV Photogenerated Solid-Density Aluminum Plasma. Physical Review Letters, 2010, 104, 225001.	2.9	62
133	Wavelength dependence of the damage threshold of inorganic materials under extreme-ultraviolet free-electron-laser irradiation. Applied Physics Letters, 2009, 95, .	1.5	36
134	Surface modification of organic polymer by dual action of extreme ultraviolet/visible-near infrared ultrashort pulses. Journal of Applied Physics, 2009, 105, 026105.	1.1	11
135	Damage of amorphous carbon induced by soft x-ray femtosecond pulses above and below the critical angle. Applied Physics Letters, 2009, 95, 031111.	1.5	33
136	Interaction of intense ultrashort XUV pulses with silicon. Proceedings of SPIE, 2009, , .	0.8	6
137	Damage studies of multilayer optics for XUV free electron lasers. Proceedings of SPIE, 2009, , .	0.8	10
138	Perspective for high energy density studies on x-ray FELs. , 2009, , .		1
139	Response of molecular solids to ultra-intense femtosecond soft x-ray pulses. Proceedings of SPIE, 2009, , .	0.8	0
140	Neutron Energy Distribution Function Reconstructed From Time-of-Flight Signals in Deuterium Gas-Puff Z-Pinch. IEEE Transactions on Plasma Science, 2009, 37, 425-432.	0.6	60
141	Supersonic plasma jet interaction with gases and plasmas. Astrophysics and Space Science, 2009, 322, 11-17.	0.5	10
142	Surface modification of polymethylmethacrylate irradiated with 60fs single laser pulses. Radiation Physics and Chemistry, 2009, 78, S71-S74.	1.4	10
143	Damage in solids irradiated by a single shot of XUV free-electron laser: Irreversible changes investigated using X-ray microdiffraction, atomic force microscopy and Nomarski optical microscopy. Radiation Physics and Chemistry, 2009, 78, S46-S52.	1.4	10
144	Investigation of laserâ€“plasma chemistry in COâ€“N2â€“H2O mixtures using 18O labeled water. Chemical Physics Letters, 2009, 472, 14-18.	1.2	29

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145	Plasma-based X-ray laser at 21Ânm for multidisciplinary applications. European Physical Journal D, 2009, 54, 439-444.	0.6	6
146	Radiation damage to amorphous carbon thin films irradiated by multiple 46.9 nm laser shots below the single-shot damage threshold. Journal of Applied Physics, 2009, 105, .	1.1	23
147	Perspective for high energy density studies using x-ray free electron lasers. , 2009, , .		0
148	Non-thermal desorption/ablation of molecular solids induced by ultra-short soft x-ray pulses. Optics Express, 2009, 17, 208.	1.7	59
149	Soft x-ray free electron laser microfocus for exploring matter under extreme conditions. Optics Express, 2009, 17, 18271.	1.7	44
150	Optimizing Conditions for Ultrasound Extraction of Fullerenes from Coal Matrices. Fullerenes Nanotubes and Carbon Nanostructures, 2009, 17, 109-122.	1.0	10
151	Optical emission spectroscopy of various materials irradiated by soft x-ray free-electron laser. , 2009, , .		5
152	Sub-micron focusing of soft x-ray free electron laser beam. Proceedings of SPIE, 2009, , .	0.8	9
153	Efficient materials processing by dual action of XUV/Vis-NIR ultrashort laser pulses. , 2009, , .		0
154	Damage thresholds of various materials irradiated by 100-ps pulses of 21.2-nm laser radiation. , 2009, , .		0
155	Improved efficiency of materials processing by dual action of XUV/Vis-NIR ultrashort laser pulses and comprehensive study of high-order harmonic source at PALS. , 2009, , .		0
156	Characterization of focused beam of desktop 10-Hz capillary-discharge 46.9-nm laser. Proceedings of SPIE, 2009, , .	0.8	8
157	Emission Spectroscopy from an XUV Laser Irradiated Solid Target. Springer Proceedings in Physics, 2009, , 549-555.	0.1	1
158	Highly Efficient Surface Modification of Solids by Dual Action of XUV/Vis-NIR Laser Pulses. Springer Proceedings in Physics, 2009, , 401-407.	0.1	1
159	Single-shot soft x-ray laser-induced ablative microstructuring of organic polymer with demagnifying projection. Optics Letters, 2008, 33, 1087.	1.7	14
160	Particle emission of discharge-based soft S-ray lasers. , 2008, , .		0
161	Spectroscopic Investigations of High-Power Laser-Induced Dielectric Breakdown in Gas Mixtures Containing Carbon Monoxide. Journal of Physical Chemistry A, 2008, 112, 7162-7169.	1.1	24
162	Low-energy nuclear transitions in subrelativistic laser-generated plasmas. Laser and Particle Beams, 2008, 26, 249-257.	0.4	12

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163	Laboratory modeling of supersonic radiative jets propagation in plasmas and their scaling to astrophysical conditions. Plasma Physics and Controlled Fusion, 2008, 50, 124056.	0.9	18
164	Anisotropy of the emission of DD-fusion neutrons caused by the plasma-focus vessel. Plasma Physics and Controlled Fusion, 2008, 50, 125006.	0.9	12
165	Neutron emission generated during wire array Z-pinch implosion onto deuterated fiber. Physics of Plasmas, 2008, 15, 032701.	0.7	23
166	Studies of supersonic, radiative plasma jet interaction with gases at the Prague Asterix Laser System facility. Physics of Plasmas, 2008, 15, .	0.7	29
167	High-power laser-plasma chemistry in planetary atmospheres. Proceedings of the International Astronomical Union, 2008, 4, 473-474.	0.0	0
168	Characterization of focused soft x-ray laser beams: compating their ablative imprints with other methods. , 2008, , .		0
169	Supersonic plasma jet interaction with gases and plasmas. , 2008, , 11-17.		0
170	Materials Modification with Intense Extreme Ultraviolet Pulses from a Compact Laser. , 2007, , 529-548.		0
171	Development of ultrafast soft x-ray beamline at PALS and surface modification of solids by high-order harmonics. Proceedings of SPIE, 2007, 6702, 240.	0.8	0
172	Damage threshold of inorganic solids under free-electron-laser irradiation at 32.5nm wavelength. Applied Physics Letters, 2007, 90, 173128.	1.5	69
173	Subnanometer-Scale Measurements of the Interaction of Ultrafast Soft X-Ray Free-Electron-Laser Pulses with Matter. Physical Review Letters, 2007, 98, 145502.	2.9	71
174	Conductors, semiconductors, and insulators irradiated with short-wavelength free-electron laser. Journal of Applied Physics, 2007, 101, 043107.	1.1	43
175	Applications of intense ultra-short XUV pulses to solid state physics: time-resolved luminescence spectroscopy and radiation damage studies. , 2007, , .		4
176	Utilizing ablation of solids to characterize a focused soft X-ray laser beam. , 2007, , .		6
177	Capillary-discharge 46.9-nm laser-induced damage to a-C thin films exposed to multiple laser shots below single-shot damage threshold. , 2007, , .		2
178	Characteristics of focused soft X-ray free-electron laser beam determined by ablation of organic molecular solids. Optics Express, 2007, 15, 6036.	1.7	96
179	A High-Power Laser-Driven Source of Sub-nanosecond Soft X-Ray Pulses for Single-Shot Radiobiology Experiments. Radiation Research, 2007, 168, 382-387.	0.7	14
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181	Comparative study of thermoluminescent responses of diverse CVD diamonds. Diamond and Related Materials, 2007, 16, 1510-1516.	1.8	7
182	Polymerâ€“LiF: Mg,Cu,P foil as thermoluminescent detector of low-energy X-rays. Radiation Measurements, 2007, 42, 1600-1604.	0.7	1
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