

Zhijiang Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3615048/publications.pdf>

Version: 2024-02-01

57
papers

1,245
citations

430754

18
h-index

377752

34
g-index

57
all docs

57
docs citations

57
times ranked

1464
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneous to homogeneous melting transition visualized with ultrafast electron diffraction. <i>Science</i> , 2018, 360, 1451-1455.	6.0	133
2	Fast and sensitive trace metal analysis in aqueous solutions by laser-induced breakdown spectroscopy using wood slice substrates. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 64-68.	1.5	123
3	Matter under extreme conditions experiments at the Linac Coherent Light Source. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 092001.	0.6	107
4	Evolution of ac Conductivity in Nonequilibrium Warm Dense Gold. <i>Physical Review Letters</i> , 2013, 110, 135001.	2.9	84
5	Generation and characterization of ultrathin free-flowing liquid sheets. <i>Nature Communications</i> , 2018, 9, 1353.	5.8	68
6	Ultra-sensitive trace metal analysis of water by laser-induced breakdown spectroscopy after electrical-deposition of the analytes on an aluminium surface. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 871.	1.6	60
7	<i>Ab initio</i> model of optical properties of two-temperature warm dense matter. <i>Physical Review B</i> , 2014, 90, .	1.1	59
8	Direct observation of ultrafast hydrogen bond strengthening in liquid water. <i>Nature</i> , 2021, 596, 531-535.	13.7	53
9	Sensitive detection of metals in water using laser-induced breakdown spectroscopy on wood sample substrates. <i>Applied Optics</i> , 2010, 49, C87.	2.1	41
10	Permanent fine tuning of silicon microring devices by femtosecond laser surface amorphization and ablation. <i>Optics Express</i> , 2013, 21, 11048.	1.7	36
11	Flux-Limited Nonequilibrium Electron Energy Transport in Warm Dense Gold. <i>Physical Review Letters</i> , 2012, 108, 165001.	2.9	31
12	Quantitative analysis of impurities in aluminum alloys by laser-induced breakdown spectroscopy without internal calibration. <i>Transactions of Nonferrous Metals Society of China</i> , 2008, 18, 222-226.	1.7	26
13	Laser wakefield generated X-ray probe for femtosecond time-resolved measurements of ionization states of warm dense aluminum. <i>Review of Scientific Instruments</i> , 2013, 84, 123106.	0.6	24
14	Measurements of ionization states in warm dense aluminum with betatron radiation. <i>Physical Review E</i> , 2017, 95, 053208.	0.8	24
15	Towards Inductive Learning of Complex Fuzzy Inference Systems. , 2007, , .		22
16	Interatomic Potential in the Nonequilibrium Warm Dense Matter Regime. <i>Physical Review Letters</i> , 2018, 121, 075002.	2.9	21
17	dc conductivity of two-temperature warm dense gold. <i>Physical Review E</i> , 2016, 94, 033213.	0.8	20
18	Ultrafast multi-cycle terahertz measurements of the electrical conductivity in strongly excited solids. <i>Nature Communications</i> , 2021, 12, 1638.	5.8	20

#	ARTICLE	IF	CITATIONS
19	Visualization of ultrafast melting initiated from radiation-driven defects in solids. <i>Science Advances</i> , 2019, 5, eaaw0392.	4.7	19
20	High resolution scanning microanalysis on material surfaces using UV femtosecond laser induced breakdown spectroscopy. <i>Optics and Lasers in Engineering</i> , 2015, 68, 1-6.	2.0	18
21	Single-shot mega-electronvolt ultrafast electron diffraction for structure dynamic studies of warm dense matter. <i>Review of Scientific Instruments</i> , 2016, 87, 11D810.	0.6	17
22	Sub-micron thick liquid sheets produced by isotropically etched glass nozzles. <i>Lab on A Chip</i> , 2022, 22, 1365-1373.	3.1	16
23	Femtosecond laser tuning of silicon microring resonators. <i>Optics Letters</i> , 2011, 36, 4695.	1.7	15
24	Detection of buried layers in silicon devices using LIBS during hole drilling with femtosecond laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 111, 791-798.	1.1	15
25	Dynamics of Electron-Phonon Coupling in Bicontinuous Nanoporous Gold. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16368-16373.	1.5	15
26	Structure retrieval in liquid-phase electron scattering. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1308-1316.	1.3	13
27	New experimental platform to study high density laser-compressed matter. <i>Review of Scientific Instruments</i> , 2014, 85, 11E616.	0.6	12
28	High resolution x-ray Thomson scattering measurements from cryogenic hydrogen jets using the linac coherent light source. <i>Review of Scientific Instruments</i> , 2016, 87, 11E524.	0.6	12
29	Characterization of defect clusters in ion-irradiated tungsten by X-Ray diffuse scattering. <i>Journal of Nuclear Materials</i> , 2018, 510, 322-330.	1.3	12
30	Ultrafast visualization of phase transitions in nonequilibrium warm dense matter. <i>MRS Bulletin</i> , 2021, 46, 694-703.	1.7	11
31	Toward quasi-DC conductivity of warm dense matter measured by single-shot terahertz spectroscopy. <i>Review of Scientific Instruments</i> , 2018, 89, 10D109.	0.6	10
32	Hydrodynamic simulations of disrupted planetary accretion discs inside the core of an AGB star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 1179-1185.	1.6	10
33	Postfabrication Phase Error Correction of Silicon Photonic Circuits by Single Femtosecond Laser Pulses. <i>Journal of Lightwave Technology</i> , 2017, 35, 588-595.	2.7	9
34	Electron-Ion Temperature Relaxation in Warm Dense Hydrogen Observed With Picosecond Resolved X-Ray Scattering. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	9
35	Femtosecond laser plasma plume characteristics in the nanojoule ablation regime. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	8
36	Determination of the electron-lattice coupling strength of copper with ultrafast MeV electron diffraction. <i>Review of Scientific Instruments</i> , 2018, 89, 10C108.	0.6	8

#	ARTICLE	IF	CITATIONS
37	Self-referenced single-shot THz detection. Optics Express, 2017, 25, 16140.	1.7	7
38	Electron Kinetics Induced by Ultrafast Photoexcitation of Warm Dense Matter in a 30-nm-Thick Foil. Physical Review Letters, 2021, 127, 097403.	2.9	7
39	Ultrafast visualization of incipient plasticity in dynamically compressed matter. Nature Communications, 2022, 13, 1055.	5.8	7
40	Fabrication and characterization of freestanding ultrathin diamond-like carbon targets for high-intensity laser applications. Applied Physics B: Lasers and Optics, 2013, 113, 429-436.	1.1	6
41	Threshold for permanent refractive index change in crystalline silicon by femtosecond laser irradiation. Applied Physics Letters, 2016, 109, .	1.5	6
42	Observation of a highly conductive warm dense state of water with ultrafast pump-probe free-electron-laser measurements. Matter and Radiation at Extremes, 2021, 6, .	1.5	6
43	Permanent Phase Correction in a Polarization Diversity Si PIC by Femtosecond Laser Pulses. IEEE Photonics Technology Letters, 2015, 27, 1880-1883.	1.3	5
44	Laser Nanopatterning. , 2012, , 301-319.		4
45	XUV-driven plasma switch for THz: new spatio-temporal overlap tool for XUV-THz pump-probe experiments at FELs. Journal of Synchrotron Radiation, 2020, 27, 11-16.	1.0	4
46	Towards performing high-resolution inelastic X-ray scattering measurements at hard X-ray free-electron lasers coupled with energetic laser drivers. Journal of Synchrotron Radiation, 2022, 29, .	1.0	3
47	Super-Coulombic Energy Transfer: Engineering Dipole-Dipole Interactions with Metamaterials. , 2015, , .		2
48	Fast attenuation of high-frequency acoustic waves in bicontinuous nanoporous gold. Applied Physics Letters, 2021, 119, .	1.5	2
49	Permanent tuning of high-Q silicon microring resonators by Fs laser surface modification. , 2013, , .		1
50	Permanent, post-fabrication trimming of polarization diversity silicon circuits by single fs laser pulses. , 2014, , .		1
51	A single-shot spatial chirp method for measuring initial AC conductivity evolution of femtosecond laser pulse excited warm dense matter. Review of Scientific Instruments, 2016, 87, 11E548.	0.6	1
52	Post-fabrication Trimming of Silicon Photonic Circuits by Femtosecond Laser Pulses. , 2016, , .		1
53	Investigation of hard x-ray emissions from terawatt laser-irradiated foils at the Matter in Extreme Conditions instrument of the Linac Coherent Light Source. Journal of Instrumentation, 2022, 17, T04004.	0.5	1
54	Femtosecond laser tuning of Si microring resonators by surface amorphization through a thick SiO2 cladding. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
55	Sensitive Detection of Heavy Metals in Water Using Microchip Laser Induced Breakdown Spectroscopy. , 2010, , .		0
56	Very fine refractive index tuning of silicon by single femtosecond laser pulses below melting threshold. , 2017, , .		0
57	Generation of ultrathin free-flowing liquid sheets for FEL sample delivery. , 2019, , .		0