

Yuxing Leng

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

2,138
citations

331670

21
h-index

254184

43
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103
all docs

103
docs citations

103
times ranked

3012
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Damage-Threshold Chirped Mirrors for Next-Generation Ultrafast, High-Power Laser Systems. IEEE Photonics Technology Letters, 2022, 34, 93-96.	2.5	4
2	Numerical Investigation of the Temporal Contrast in ps-OPCPA with Compact Double BBO Arrangement. Applied Sciences (Switzerland), 2022, 12, 934.	2.5	0
3	Terahertz-assisted even harmonics generation in Silicon. Science, 2022, 25, 103750.	4.1	1
4	Towards High-Repetition-Rate Intense Terahertz Source With Metal Wire-Based Plasma. IEEE Photonics Journal, 2022, 14, 1-5.	2.0	7
5	Simultaneous wavefront sensing of multiple beams using neural networks. Applied Physics B: Lasers and Optics, 2022, 128, 1.	2.2	2
6	A novel focal spot positioning method for high peak power lasers. Applied Physics B: Lasers and Optics, 2022, 128, 1.	2.2	0
7	Tunable ultrafast electron transfer in WSe ₂ –graphene heterostructures enabled by atomic stacking order. Nanoscale, 2022, 14, 7418-7425.	5.6	7
8	High efficiency laser-driven proton sources using 3D-printed micro-structure. Communications Physics, 2022, 5, .	5.3	7
9	Characterization of Electromagnetic Pulses Generated from Plasma Associated with Laser Filaments-Excited Aluminum Alloy Interaction. Applied Sciences (Switzerland), 2022, 12, 6059.	2.5	1
10	13.4-fs, 0.1-Hz OPCPA Front End for the 100 PW-Class Laser Facility. Ultrafast Science, 2022, 2022, .	11.2	31
11	Enhanced Amplified Spontaneous Emission in Quasi-2D Perovskite by Facilitating Energy Transfer. ACS Applied Materials & Interfaces, 2022, 14, 33842-33849.	8.0	11
12	Direct mapping of attosecond electron dynamics. Nature Photonics, 2021, 15, 216-221.	31.4	14
13	High-energy, high-repetition-rate ultraviolet pulses from an efficiency-enhanced, frequency-tripled laser. High Power Laser Science and Engineering, 2021, 9, .	4.6	9
14	A method for aligning a femtosecond multi-petawatt coherent beam combining system. Applied Physics B: Lasers and Optics, 2021, 127, 1.	2.2	2
15	Photoionization-Induced Broadband Dispersive Wave Generated in an Ar-Filled Hollow-Core Photonic Crystal Fiber. Crystals, 2021, 11, 180.	2.2	3
16	Optimization of Electron Beams Based on Plasma-Density Modulation in a Laser-Driven Wakefield Accelerator. Applied Sciences (Switzerland), 2021, 11, 2560.	2.5	8
17	Subwavelength-Polarized Quasi-Two-Dimensional Perovskite Single-Mode Nanolaser. ACS Nano, 2021, 15, 6900-6908.	14.6	47
18	Suppressing the Trapping Process by Interfacial Charge Extraction in Antimony Selenide Heterojunctions. ACS Energy Letters, 2021, 6, 1740-1748.	17.4	33

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19	1.9 μ m Few-Cycle Pulses Based on Multi-Thin-Plate Spectral Broadening and Nonlinear Self-Compression. IEEE Photonics Journal, 2021, 13, 1-8.	2.0	1
20	Free-electron lasing at 27 nanometres based on a laser wakefield accelerator. Nature, 2021, 595, 516-520.	27.8	151
21	Timing Fluctuation Correction of A Femtosecond Regenerative Amplifier. Crystals, 2021, 11, 1242.	2.2	1
22	Role of the Opticalâ€Acoustic Phonon Interaction in the Ultrafast Cooling Process of CVD Graphene. Journal of Physical Chemistry C, 2021, 125, 27283-27289.	3.1	5
23	Dispersion Management in 10-PW Laser Front End. Optics, 2020, 1, 191-201.	1.2	7
24	Surface Ligand Engineering for CsPbBr ₃ Quantum Dots Aiming at Aggregation Suppression and Amplified Spontaneous Emission Improvement. Advanced Optical Materials, 2020, 8, 2000977.	7.3	32
25	Relativistic slingshot: A source for single circularly polarized attosecond x-ray pulses. Physical Review E, 2020, 102, 061201.	2.1	7
26	Discretely Tunable Multiwavelength Visible Laser Based on Cascaded Frequency Conversion Processes. Applied Sciences (Switzerland), 2020, 10, 8608.	2.5	2
27	Ultrafast Charge Generation Enhancement in Nanoscale Polymer Solar Cells with DIO Additive. Nanomaterials, 2020, 10, 2174.	4.1	5
28	Near-Infrared Supercontinuum and Ultrashort Pulses Generated Based on Phase-Mismatched Cascaded Frequency Conversion in DSTMS Crystal. IEEE Photonics Journal, 2020, 12, 1-6.	2.0	2
29	Femtosecond laser filament guided negative coronas. AIP Advances, 2020, 10, .	1.3	5
30	Advances in inorganic and hybrid perovskites for miniaturized lasers. Nanophotonics, 2020, 9, 2251-2272.	6.0	40
31	High Efficiency Upâ€Conversion Random Lasing from Formamidinium Lead Bromide/Aminoâ€Mediated Silica Spheres Composites. Advanced Optical Materials, 2020, 8, 2000290.	7.3	16
32	Low-threshold amplification of spontaneous emission from AgInS ₂ quantum dots. Journal of Materials Chemistry C, 2020, 8, 8515-8520.	5.5	7
33	Broad-bandwidth high-temporal-contrast carrier-envelope-phase-stabilized laser seed for 100â€PW lasers. Optics Letters, 2020, 45, 2215.	3.3	31
34	Guiding and emission of millijoule single-cycle THz pulse from laser-driven wire-like targets. Optics Express, 2020, 28, 15258.	3.4	21
35	Energy Enhancement and Energy Spread Compression of Electron Beams in a Hybrid Laser-Plasma Wakefield Accelerator. Applied Sciences (Switzerland), 2019, 9, 2561.	2.5	4
36	Accurate characterization of mid-infrared ultrashort pulse based on second-harmonic-generation frequency-resolved optical gating. Optics and Laser Technology, 2019, 120, 105671.	4.6	11

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37	High-Quality Single-Mode Lasers Based on Zero-Dimensional Cesium Lead Halide Perovskites. Solar Rrl, 2019, 3, 1970095.	5.8	5
38	Monoenergetic proton beam accelerated by single reflection mechanism only during hole-boring stage. High Power Laser Science and Engineering, 2019, 7, .	4.6	6
39	Demonstration of Diode-Pumped Yb:LaF ₃ and Tm,Ho:LaF ₃ Lasers. Applied Sciences (Switzerland), 2019, 9, 334.	2.5	0
40	Two-Photon Pumped Amplified Spontaneous Emission and Lasing from Formamidinium Lead Bromine Nanocrystals. ACS Photonics, 2019, 6, 3150-3158.	6.6	43
41	Bacterially synthesized tellurium nanostructures for broadband ultrafast nonlinear optical applications. Nature Communications, 2019, 10, 3985.	12.8	68
42	High-repetition-rate, high-peak-power 1450Ånm laser source based on optical parametric chirped pulse amplification. High Power Laser Science and Engineering, 2019, 7, .	4.6	5
43	Perovskite Quantum Dots: Ultrathin, Core-Shell Structured SiO ₂ Coated Mn ²⁺ -Doped Perovskite Quantum Dots for Bright White Light-Emitting Diodes (Small 19/2019). Small, 2019, 15, 1970101.	10.0	2
44	High-Quality Single-Mode Lasers Based on Zero-Dimensional Cesium Lead Halide Perovskites. Solar Rrl, 2019, 3, 1900127.	5.8	20
45	Ultrastable CsPbBr ₃ Perovskite Quantum Dot and Their Enhanced Amplified Spontaneous Emission by Surface Ligand Modification. Small, 2019, 15, e1901173.	10.0	229
46	Ultrathin, Core-Shell Structured SiO ₂ Coated Mn ²⁺ -Doped Perovskite Quantum Dots for Bright White Light-Emitting Diodes. Small, 2019, 15, e1900484.	10.0	95
47	Linear and Nonlinear Optical Properties of Few-Layer Exfoliated SnSe Nanosheets. Advanced Optical Materials, 2019, 7, 1800579.	7.3	43
48	Ultrafast electron-phonon coupling and photo-induced strain in the morphotropic phase boundary of Bi _x Dy _{1-x} FeO ₃ films. Scientific Reports, 2018, 8, 3258.	3.3	8
49	Enhanced Two-Photon-Pumped Emission from In Situ Synthesized Nonblinking CsPbBr ₃ /SiO ₂ Nanocrystals with Excellent Stability. Advanced Optical Materials, 2018, 6, 1700997.	7.3	116
50	Suppressing Temporal Pedestal in Nd:glass Laser Systems by Avoiding Far-Field Spectral Phase Noise. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-6.	2.9	4
51	Ultralow-emittance measurement of high-quality electron beams from a laser wakefield accelerator. Physics of Plasmas, 2018, 25, 023106.	1.9	12
52	Bright High-Order Harmonic Generation around 30 nm Using Hundred-Terawatt-Level Laser System for Seeding Full Coherent XFEL. Applied Sciences (Switzerland), 2018, 8, 1446.	2.5	6
53	Highly Stable Silica-Wrapped Mn-Doped CsPbCl ₃ Quantum Dots for Bright White Light-Emitting Devices. ACS Applied Materials & Interfaces, 2018, 10, 43978-43986.	8.0	91
54	Very-long distance propagation of high-energy laser pulse in air. Physics of Plasmas, 2018, 25, 113111.	1.9	0

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55	Aluminum-target-assisted femtosecond-laser-filament-induced water condensation and snow formation in a cloud chamber. <i>Scientific Reports</i> , 2018, 8, 18080.	3.3	7
56	Diode-Pumped Solid-State Q-Switched Laser with Rhenium Diselenide as Saturable Absorber. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1753.	2.5	11
57	Enhanced betatron radiation by steering a laser-driven plasma wakefield with a tilted shock front. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	20
58	Robust Subwavelength Single-Mode Perovskite Nanocuboid Laser. <i>ACS Nano</i> , 2018, 12, 5923-5931.	14.6	157
59	Ultrafast Nonlinear Optical Response in Plasmonic 2D Molybdenum Oxide Nanosheets for Mode-locked Pulse Generation. <i>Advanced Optical Materials</i> , 2018, 6, 1700948.	7.3	55
60	Astigmatism transfer phenomena in the optical parametric amplification process. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	2.2	2
61	Two-photon Lasers: Perovskite CsPb ₂ Br ₅ Microplate Laser with Enhanced Stability and Tunable Properties (<i>Advanced Optical Materials</i> 3/2017). <i>Advanced Optical Materials</i> , 2017, 5, .	7.3	1
62	Multi-operation laser oscillator: an example of multi-operation laser. <i>Frontiers of Optoelectronics</i> , 2017, 10, 14-17.	3.7	0
63	Measurements of nonlinear refraction in the mid-infrared materials ZnGeP ₂ and AgGaS ₂ . <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	2.2	9
64	Robust Cesium Lead Halide Perovskite Microcubes for Frequency Upconversion Lasing. <i>Advanced Optical Materials</i> , 2017, 5, 1700419.	7.3	64
65	Perovskite CsPb ₂ Br ₅ Microplate Laser with Enhanced Stability and Tunable Properties. <i>Advanced Optical Materials</i> , 2017, 5, 1600788.	7.3	135
66	A High-Energy, 100 Hz, Picosecond Laser for OPCPA Pumping. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 997.	2.5	12
67	Ultrafast multi-MeV gamma-ray beam produced by laser-accelerated electrons. <i>Physics of Plasmas</i> , 2017, 24, 093104.	1.9	22
68	Ultrashort megaelectronvolt positron beam generation based on laser-accelerated electrons. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	41
69	Mid-infrared laser emission from Cr:ZnS channel waveguide fabricated by femtosecond laser helical writing. <i>Scientific Reports</i> , 2016, 5, 18365.	3.3	18
70	Broadband spectrographic method for precision alignment of compression gratings. <i>Optical Engineering</i> , 2016, 55, 086105.	1.0	6
71	Surface-Enhanced Impulsive Coherent Vibrational Spectroscopy. <i>Scientific Reports</i> , 2016, 6, 36471.	3.3	8
72	Ultrahigh brilliance quasi-monochromatic MeV γ -rays based on self-synchronized all-optical Compton scattering. <i>Scientific Reports</i> , 2016, 6, 29518.	3.3	66

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73	Generation of high-contrast, joule-level pulses based on Nd:glass chirped pulse amplification laser. High Power Laser Science and Engineering, 2016, 4, .	4.6	4
74	Polarization beam combination technique for gain saturation effect compensation in high-energy systems. Optical Engineering, 2016, 55, 066111.	1.0	1
75	Recent progress and research status of petawatt femtosecond lasers in SIOM. , 2015, , .		0
76	Ultrafast pre-damage dynamics in Al ₂ O ₃ /SiO ₂ reflector. , 2015, , .		0
77	Broadband 800nm pulse generation with an optical parametric amplifier based on BiB ₃ O ₆ . , 2015, , .		0
78	Tuning the central wavelength by hundreds of nanometers using ultrafast molecular phase modulation. Physical Review A, 2015, 91, .	2.5	5
79	Excitonic Relaxation and Coherent Vibrational Dynamics in Zinc Chlorin Aggregates for Artificial Photosynthetic Systems. Journal of Physical Chemistry B, 2015, 119, 12265-12273.	2.6	16
80	Splicing technology of Ti:sapphire crystals for a high-energy chirped pulse amplifier laser system. High Power Laser Science and Engineering, 2014, 2, .	4.6	4
81	Generation of a high-temporal contrast ultrafast laser pulse near 1,053Ånm through stimulated Raman frequency shift. Applied Physics B: Lasers and Optics, 2014, 117, 973-978.	2.2	0
82	Observation of laser multiple filamentation process and multiple electron beams acceleration in a laser wakefield accelerator. Physics of Plasmas, 2013, 20, .	1.9	7
83	Energetic proton generation from intense Coulomb explosion of large-size ethane clusters. Physics of Plasmas, 2013, 20, 043109.	1.9	4
84	Measurement of nonlinear refractive index coefficient of inert gases with hollow-core fiber. Applied Physics B: Lasers and Optics, 2013, 111, 447-452.	2.2	20
85	Control of seeding phase for a cascaded laser wakefield accelerator with gradient injection. Applied Physics Letters, 2013, 103, .	3.3	30
86	Room-Temperature Electron Spin Generation by Femtosecond Laser Pulses in Colloidal CdS Quantum Dots. Materials, 2013, 6, 4523-4531.	2.9	9
87	Nonlinear temporal pulse cleaning techniques and application. High Power Laser Science and Engineering, 2013, 1, 98-101.	4.6	12
88	Muti-joule non-collinear OPCPA at 800nm in yttrium calcium oxyborate. , 2013, , .		0
89	High temporal contrast femtosecond petawatt Ti:sapphire laser facility and its applications. , 2012, , .		0
90	Enhancement of Amplified Spontaneous Emission Contrast With a Novel Front-End Based on NOPA and SHG Processes. IEEE Journal of Quantum Electronics, 2012, 48, 516-520.	1.9	19

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91	High-temporal-quality injector generated by optical parametric amplification with hollow-core-fiber compression. Optics Letters, 2011, 36, 4785.	3.3	6
92	Effects of self-focusing on tunnel-ionization-induced injection in a laser wakefield accelerator. Physics of Plasmas, 2011, 18, 113101.	1.9	15
93	Recent Development and Progress on Femtosecond Petawatt Ti:sapphire Laser in SIOM. The Review of Laser Engineering, 2010, 38, 689-692.	0.0	0
94	Angular and energy distribution of fast electrons emitted from a solid surface irradiated by femtosecond laser pulses in various conditions. Physics of Plasmas, 2010, 17, .	1.9	19
95	Time-resolved measurements on reflectivity of an ultrafast laser-induced plasma mirror. Physics of Plasmas, 2009, 16, 103104.	1.9	11
96	Temporal optimization of neutron generation from the exploding deuterated methane jet of clusters subjected to an intense laser pulse. Physics of Plasmas, 2009, 16, 083107.	1.9	16
97	Polarization-dependent two-color dispersion wave generation and evolution in polarization-maintaining photonic crystal fiber. Laser Physics, 2009, 19, 993-1001.	1.2	7
98	Tunable ultraviolet source from fifth and seventh harmonic generated by mid-infrared pulses filamentation in air. Laser Physics, 2009, 19, 1793-1795.	1.2	4
99	A multi-terawatt OPCPA laser system. AIP Conference Proceedings, 2002, , .	0.4	3
100	Compact Nd-silicate glass laser facility as synchronous pumping source of 10 TW optical parametric chirped pulse amplifier system. , 2001, , .		0
101	Broadband spectral shaping in a Ti:sapphire Regenerative Amplifier. , 0, , .		0