

Hailang Dai

List of Publications by Year in descending order

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papers

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all docs

91
docs citations

91
times ranked

2047
citing authors

#	ARTICLE	IF	CITATIONS
1	Maskless nanostructure photolithography by ultrahigh-order modes of a symmetrical metal-cladding waveguide. <i>Optics Letters</i> , 2022, 47, 62.	3.3	2
2	Single Pulse Manipulations in Synthetic Time-Frequency Space. <i>Laser and Photonics Reviews</i> , 2022, 16, 2100340.	8.7	8
3	Regulation of the luminescence mechanism of two-dimensional tin halide perovskites. <i>Nature Communications</i> , 2022, 13, 60.	12.8	48
4	A two-way photonic quantum entanglement transfer interface. <i>Npj Quantum Information</i> , 2022, 8, .	6.7	4
5	Unveiling Charge Carrier Recombination, Extraction, and Hot-Carrier Dynamics in Indium Incorporated Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Science</i> , 2022, 9, e2103491.	11.2	15
6	Excitation-polarization-dependent dynamics of polariton condensates in the ZnO microwire at room temperature. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 22LT01.	1.8	4
7	Fermi surface topology and anisotropic superconducting gap in electron-doped hydride compounds at high pressure. <i>Physical Review Materials</i> , 2022, 6, .	2.4	2
8	Monitoring Various Bioactivities at the Molecular, Cellular, Tissue, and Organism Levels via Biological Lasers. <i>Sensors</i> , 2022, 22, 3149.	3.8	0
9	High-Performance Hyperentanglement Generation and Manipulation Based on Lithium Niobate Waveguides. <i>Physical Review Applied</i> , 2022, 17, .	3.8	6
10	Truncation-dependent PT phase transition for the edge states of a two-dimensional non-Hermitian system. <i>Physical Review B</i> , 2022, 105, .	3.2	6
11	Observation of flat-band and band transition in the synthetic space. <i>Advanced Photonics</i> , 2022, 4, .	11.8	9
12	Nonlinear thermal emission and visible thermometry. <i>Advanced Photonics</i> , 2022, 4, .	11.8	1
13	On-chip erbium-doped lithium niobate microcavity laser. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	5.1	86
14	Carrier dynamic process in all-inorganic halide perovskites explored by photoluminescence spectra. <i>Photonics Research</i> , 2021, 9, 151.	7.0	52
15	Dynamic band structure measurement in the synthetic space. <i>Science Advances</i> , 2021, 7, .	10.3	31
16	Far-field super-resolution imaging by nonlinearly excited evanescent waves. <i>Advanced Photonics</i> , 2021, 3, .	11.8	7
17	Arbitrary synthetic dimensions via multiboson dynamics on a one-dimensional lattice. <i>Physical Review Research</i> , 2021, 3, .	3.6	9
18	Ultraviolet waveband vector beams generation assisted by the nonlinear frequency conversion. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	4

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19	Boosted Structural Stability and Interfacial Charge Transfer in $\text{CmOncClk}[\text{FA,MA}]_{\text{Pb1+y}}\text{I3}$ Heterostructures. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18866-18876.		3
20	Nonlinear Moiré Superlattice for Super-Resolution Nondestructive Detection of Nonlinear Photonic Crystals. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000596.	8.7	2
21	Blue-Violet Emission with Near-Unity Photoluminescence Quantum Yield from Cu(I)-Doped Rb3InCl6 Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7928-7934.	4.6	16
22	Selection of Emission Wavelength of Lasing via a Hybrid Microcavity. <i>Physical Review Applied</i> , 2021, 16, .	3.8	2
23	Single-cell detection by enhancement of fluorescence in waveguides for cancer diagnosis and therapy. <i>Photonics Research</i> , 2021, 9, 2381.	7.0	3
24	A 15-user quantum secure direct communication network. <i>Light: Science and Applications</i> , 2021, 10, 183.	16.6	114
25	Simulating graphene dynamics in synthetic space with photonic rings. <i>Communications Physics</i> , 2021, 4, .	5.3	4
26	Nonlinear wave mixing in lithium niobate thin film. <i>Advances in Physics: X</i> , 2021, 6, .	4.1	22
27	Electrochemical synthesis of annealing-free and highly stable black-phase CsPbI3 perovskite. <i>Chemical Communications</i> , 2021, 57, 8981-8984.	4.1	11
28	Topological holographic quench dynamics in a synthetic frequency dimension. <i>Light: Science and Applications</i> , 2021, 10, 209.	16.6	20
29	All-photonic synapse based on iron-doped lithium niobate double metal-cladding waveguides. <i>Physical Review B</i> , 2021, 104, .	3.2	3
30	Localization and delocalization of light in photonic moiré lattices. <i>Nature</i> , 2020, 577, 42-46.	27.8	253
31	Single-Photon Transport in a Topological Waveguide from a Dynamically Modulated Photonic System. <i>Physical Review Applied</i> , 2020, 14, .	3.8	8
32	Isolated Photonic Flatband with the Effective Magnetic Flux in a Synthetic Space Including the Frequency Dimension. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000041.	8.7	17
33	High harmonic optomechanical oscillations in the lithium niobate photonic crystal nanocavity. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	12
34	Development of low-coherence high-power laser drivers for inertial confinement fusion. <i>Matter and Radiation at Extremes</i> , 2020, 5, .	3.9	35
35	Three-dimensional nonlinear optical holograms. <i>Physical Review A</i> , 2020, 102, .	2.5	5
36	Dual-Wavelength Focusing through Fresnel Zone Plate Fabricated in Lithium Niobate Crystal by Femtosecond Laser Micromachining. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000213.	2.4	6

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37	Tunable Linear Polarization-State Generator of Single Photons on a Lithium Niobate Chip. <i>Physical Review Applied</i> , 2020, 13, .	3.8	10
38	Fast- and slow-light-enhanced light drag in a moving microcavity. <i>Communications Physics</i> , 2020, 3, .	5.3	19
39	Frequency Manipulations in Single-Photon Quantum Transport under Ultrastrong Driving. <i>ACS Photonics</i> , 2020, 7, 2010-2017.	6.6	10
40	Direct Visualizing the Spin Hall Effect of Light via Ultrahigh-Order Modes. <i>Physical Review Letters</i> , 2020, 124, 053902.	7.8	54
41	Synthetic Anti-PT Symmetry in a Single Microcavity. <i>Physical Review Letters</i> , 2020, 124, 053901.	7.8	98
42	Multiphysical sensing of light, sound and microwave in a microcavity Brillouin laser. <i>Nanophotonics</i> , 2020, 9, 2915-2925.	6.0	19
43	Nonlinear frequency conversion of vectorial optical fields with a Mach-Zehnder interferometer. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	9
44	High- Q Exterior Whispering-Gallery Modes in a Double-Layer Crystalline Microdisk Resonator. <i>Physical Review Letters</i> , 2019, 122, 253902.	7.8	36
45	Superhigh-Resolution Recognition of Optical Vortex Modes Assisted by a Deep-Learning Method. <i>Physical Review Letters</i> , 2019, 123, 183902.	7.8	132
46	UV Rewritable Hybrid Graphene/Phosphor p-n Junction Photodiode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43351-43358.	8.0	5
47	Finite-Dimensional Bistable Topological Insulators: From Small to Large. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900198.	8.7	19
48	Experimental demonstration of non-bilocality with truly independent sources and strict locality constraints. <i>Nature Photonics</i> , 2019, 13, 687-691.	31.4	40
49	Photonic Gauge Potential in One Cavity with Synthetic Frequency and Orbital Angular Momentum Dimensions. <i>Physical Review Letters</i> , 2019, 122, 083903.	7.8	54
50	Tunable super- and subradiant boundary states in one-dimensional atomic arrays. <i>Communications Physics</i> , 2019, 2, .	5.3	13
51	Coupling of Edge States and Topological Bragg Solitons. <i>Physical Review Letters</i> , 2019, 123, 254103.	7.8	37
52	Multiuser Time-Energy Entanglement Swapping Based on Dense Wavelength Division Multiplexed and Sum-Frequency Generation. <i>Physical Review Letters</i> , 2019, 123, 250505.	7.8	18
53	Cancer-Targeting Graphene Quantum Dots: Fluorescence Quantum Yields, Stability, and Cell Selectivity. <i>Advanced Functional Materials</i> , 2019, 29, 1805860.	14.9	65
54	Lieb polariton topological insulators. <i>Physical Review B</i> , 2018, 97, .	3.2	56

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55	Quantum mechanical analysis of nonlinear optical response of interacting graphene nanoflakes. <i>APL Photonics</i> , 2018, 3, 016102.	5.7	10
56	The manipulation of second-order nonlinear harmonic wave by structured material and structured light. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2018, 27, 1850047.	1.8	6
57	Coupled wave equation study of non-collinear phase-matching second harmonic generation and nonlinear Cherenkov radiation generated on the surface of bulk lithium niobate crystals doped with magnesium medium. <i>Journal of Applied Physics</i> , 2018, 124, 152123.	2.5	0
58	Bloch oscillations in arrays of helical waveguides. <i>Physical Review A</i> , 2018, 97, .	2.5	12
59	Nonlinear frequency conversion in one dimensional lithium niobate photonic crystal nanocavities. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	39
60	Enhancement of UV Second-Harmonic Radiation at Nonlinear Interfaces with Discontinuous Second-order Susceptibilities. <i>Scientific Reports</i> , 2018, 8, 6695.	3.3	2
61	Label-free real-time ultrasensitive monitoring of non-small cell lung cancer cell interaction with drugs. <i>Biomedical Optics Express</i> , 2018, 9, 4149.	2.9	4
62	Symmetrical Metal Cladding Waveguide for Absorption Sensing and its Sensitivity Analysis. <i>IEEE Photonics Journal</i> , 2017, 9, 1-9.	2.0	5
63	Spectral compression of single-photon-level laser pulse. <i>Scientific Reports</i> , 2017, 7, 43494.	3.3	15
64	Patterning Graphene Film by Magnetic-assisted UV Ozonation. <i>Scientific Reports</i> , 2017, 7, 46583.	3.3	19
65	Nonlinear Snell law for grazing incidence along interfaces with discontinuous second-order susceptibilities. <i>Physical Review A</i> , 2017, 95, .	2.5	3
66	Dynamic computer-generated nonlinear-optical holograms. <i>Physical Review A</i> , 2017, 96, .	2.5	16
67	A possible pathogenetic factor of sickle-cell disease based on fluorescent analysis via an optofluidic resonator. <i>Scientific Reports</i> , 2017, 7, 3174.	3.3	11
68	Whole blood and semen identification using mid-infrared and Raman spectrum analysis for forensic applications. <i>Analytical Methods</i> , 2016, 8, 3763-3767.	2.7	32
69	Niobium pentoxide nanotube powder for efficient dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2016, 40, 6276-6280.	2.8	34
70	Optically induced transparency in a micro-cavity. <i>Light: Science and Applications</i> , 2016, 5, e16072-e16072.	16.6	58
71	The role of ferroelectric domain wall in nonlinear Cerenkov frequency up-conversion in 1D nonlinear crystal. , 2016, , .		0
72	Concentric Circular Grating Generated by the Patterning Trapping of Nanoparticles in an Optofluidic Chip. <i>Scientific Reports</i> , 2016, 6, 32018.	3.3	5

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73	Localization-delocalization transition in spin-orbit-coupled Bose-Einstein condensate. Scientific Reports, 2016, 6, 31700.	3.3	10
74	Localization-delocalization wavepacket transition in Pythagorean aperiodic potentials. Scientific Reports, 2016, 6, 32546.	3.3	51
75	Tunability and Robustness of Dirac Points of Photonic Nanostructures. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 98-106.	2.9	10
76	Efficient microfluidic photocatalysis in a symmetrical metal-cladding waveguide. Physical Chemistry Chemical Physics, 2016, 18, 4585-4588.	2.8	5
77	Optically and electrically tunable Dirac points and Zitterbewegung in graphene-based photonic superlattices. Physical Review B, 2015, 91, .	3.2	41
78	Transverse Anderson localization of light near Dirac points of photonic nanostructures. Scientific Reports, 2015, 5, 15585.	3.3	16
79	Generation of Subwavelength Plasmonic Nanovortices via Helically Corrugated Metallic Nanowires. Scientific Reports, 2015, 5, 13089.	3.3	9
80	Dielectric Optical-Controllable Magnifying Lens by Nonlinear Negative Refraction. Scientific Reports, 2015, 5, 11892.	3.3	7
81	Influence of <i>In Situ</i> Oxide Dissolution on the Bottom Morphologies of Detached TiO ₂ Nanotube Films. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	0
82	Assembly of a high-scattering photoelectrode using a hybrid nano-TiO ₂ paste. Journal of Materials Chemistry C, 2015, 3, 6645-6651.	5.5	11
83	TiO ₂ nanotube structures for the enhancement of photon utilization in sensitized solar cells. Nanotechnology Reviews, 2015, 4, .	5.8	5
84	An improved three-dimensional two-temperature model for multi-pulse femtosecond laser ablation of aluminum. Journal of Applied Physics, 2015, 117, .	2.5	38
85	Anatase TiO ₂ nanotube powder film with high crystallinity for enhanced photocatalytic performance. Nanoscale Research Letters, 2015, 10, 110.	5.7	32
86	Slowdown of group velocity of light in PPLN by employing electro-optic effect. Journal of Nonlinear Optical Physics and Materials, 2014, 23, 1450006.	1.8	0
87	Metal-Free Flat Lens Using Negative Refraction by Nonlinear Four-Wave Mixing. Physical Review Letters, 2014, 113, 217401.	7.8	11
88	Plasmonic lattice solitons beyond the coupled-mode theory. Laser and Photonics Reviews, 2014, 8, L52.	8.7	17
89	Anderson localization at the subwavelength scale for surface plasmon polaritons in disordered arrays of metallic nanowires. Physical Review B, 2014, 89, .	3.2	25
90	Design of multi-layered TiO ₂ nanotube/nanoparticle hybrid structure for enhanced efficiency in dye-sensitized solar cells. RSC Advances, 2014, 4, 45180-45184.	3.6	11

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91	Conical reflection of light during free-space coupling into a symmetrical metal-cladding waveguide. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1901.	1.5	10