

Luqi Yuan

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

2,809
citations

182225

30
h-index

214428

50
g-index

105
all docs

105
docs citations

105
times ranked

2035
citing authors

#	ARTICLE	IF	CITATIONS
1	Single Pulse Manipulations in Synthetic Time-Frequency Space. Laser and Photonics Reviews, 2022, 16, 2100340.	4.4	8
2	Background-free single-beam coherent Raman spectroscopy assisted by air lasing. Optics Letters, 2022, 47, 481.	1.7	13
3	Roadmap on topological photonics. JPhys Photonics, 2022, 4, 032501.	2.2	56
4	Topologically protected quantum entanglement emitters. Nature Photonics, 2022, 16, 248-257.	15.6	45
5	Topological dissipation in a time-multiplexed photonic resonator network. Nature Physics, 2022, 18, 442-449.	6.5	58
6	Asymmetric Topological Valley Edge States on Silicon-On-Insulator Platform. Laser and Photonics Reviews, 2022, 16, .	4.4	17
7	Truncation-dependent $\langle \text{PT} \rangle$ phase transition for the edge states of a two-dimensional non-Hermitian system. Physical Review B, 2022, 105, .	1.1	6
8	Creating boundaries along a synthetic frequency dimension. Nature Communications, 2022, 13, .	5.8	21
9	Temporal modulation brings metamaterials into new era. Light: Science and Applications, 2022, 11, .	7.7	10
10	Technologically feasible quasi-edge states and topological Bloch oscillation in the synthetic space. Optics Express, 2022, 30, 24924.	1.7	2
11	All-Optical Control of the Photonic Hall Lattice in a Pumped Waveguide Array. Physical Review Applied, 2022, 17, .	1.5	2
12	Observation of flat-band and band transition in the synthetic space. Advanced Photonics, 2022, 4, .	6.2	9
13	Ultraviolet supercontinuum generation driven by ionic coherence in a strong laser field. Nature Communications, 2022, 13, .	5.8	14
14	Bound state in a giant atom-modulated resonators system. Npj Quantum Information, 2022, 8, .	2.8	18
15	Dynamic band structure measurement in the synthetic space. Science Advances, 2021, 7, .	4.7	31
16	Photonic Meron Spin Texture in Momentum Space. , 2021, , .		0
17	Experimental Demonstration of Dynamic Band Structure Measurement along a Synthetic Dimension. , 2021, , .		0
18	Flat-Band Localization in Creutz Superradiance Lattices. Physical Review Letters, 2021, 126, 103601.	2.9	38

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19	Coherent control of the multiple wavelength lasing of $\{m N\}_2^+$: coherence transfer and beyond. <i>Optica</i> , 2021, 8, 668.	4.8	17
20	Arbitrary synthetic dimensions via multiboson dynamics on a one-dimensional lattice. <i>Physical Review Research</i> , 2021, 3, .	1.3	9
21	Synthetic frequency dimensions in dynamically modulated ring resonators. <i>APL Photonics</i> , 2021, 6, .	3.0	44
22	Photon retention in coherently excited nitrogen ions. <i>Science Bulletin</i> , 2021, 66, 1511-1517.	4.3	12
23	Femtosecond laser-induced quantum-beat superfluorescence of atomic oxygen in a flame. <i>Physical Review A</i> , 2021, 104, .	1.0	5
24	Simulating graphene dynamics in synthetic space with photonic rings. <i>Communications Physics</i> , 2021, 4, .	2.0	4
25	Control of photons with the effective magnetic flux in synthetic dimensions with rings including CVD. , 2021, , .		0
26	Phonon-induced anomalous gauge potential for photonic isolation in frequency space. <i>Optica</i> , 2021, 8, 1448.	4.8	10
27	Topological holographic quench dynamics in a synthetic frequency dimension. <i>Light: Science and Applications</i> , 2021, 10, 209.	7.7	20
28	A single photonic cavity with two independent physical synthetic dimensions. <i>Science</i> , 2020, 367, 59-64.	6.0	175
29	Single-Photon Transport in a Topological Waveguide from a Dynamically Modulated Photonic System. <i>Physical Review Applied</i> , 2020, 14, .	1.5	8
30	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.	4.4	17
31	Understanding the Seeding Pulse-Induced Optical Amplification in N_2^+ Pumped by 800 NM Femtosecond Laser Pulses. <i>Photonics</i> , 2020, 7, 99.	0.9	2
32	Meron Spin Textures in Momentum Space. <i>Physical Review Letters</i> , 2020, 124, 106103.	2.9	44
33	Frequency Manipulations in Single-Photon Quantum Transport under Ultrastrong Driving. <i>ACS Photonics</i> , 2020, 7, 2010-2017.	3.2	10
34	Direct Visualizing the Spin Hall Effect of Light via Ultrahigh-Order Modes. <i>Physical Review Letters</i> , 2020, 124, 053902.	2.9	54
35	Creating locally interacting Hamiltonians in the synthetic frequency dimension for photons. <i>Photonics Research</i> , 2020, 8, B8.	3.4	20
36	Topological phases in ring resonators: recent progress and future prospects. <i>Nanophotonics</i> , 2020, 9, 4473-4487.	2.9	41

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37	ONE-WAY TOPOLOGICAL STATES ALONG VAGUE BOUNDARIES IN SYNTHETIC FREQUENCY DIMENSIONS INCLUDING GROUP VELOCITY DISPERSION (INVITED). <i>Progress in Electromagnetics Research</i> , 2020, 169, 33-43.	1.6	13
38	Effective magnetic flux induced localization effect on the Lieb-type lattice in synthetic space. , 2020, , .		0
39	Topological Behaviors in Networks of Time-Multiplexed Optical Resonators. , 2020, , .		0
40	Constructing an effective Hamiltonian with local interaction in the synthetic space for photons. , 2020, , .		0
41	Experimental band structure spectroscopy along a synthetic dimension. <i>Nature Communications</i> , 2019, 10, 3122.	5.8	95
42	Analytical study of the spiky feature in a two-photon driven lossy ladder system. <i>Laser Physics</i> , 2019, 29, 105203.	0.6	1
43	Photonic Gauge Potential in One Cavity with Synthetic Frequency and Orbital Angular Momentum Dimensions. <i>Physical Review Letters</i> , 2019, 122, 083903.	2.9	54
44	Hidden equivalence in the collective emission from a dilute atomic cloud. <i>Physical Review A</i> , 2019, 99, .	1.0	0
45	Eigenstates Transition without Undergoing an Adiabatic Process. <i>Physical Review Letters</i> , 2019, 122, 050404.	2.9	9
46	Recent Advances in Air Lasing: A Perspective from Quantum Coherence. <i>Advanced Quantum Technologies</i> , 2019, 2, 1900080.	1.8	26
47	Lasing without population inversion in N ₂ ⁺ . <i>APL Photonics</i> , 2019, 4, .	3.0	55
48	Tunable super- and subradiant boundary states in one-dimensional atomic arrays. <i>Communications Physics</i> , 2019, 2, .	2.0	13
49	Multiuser Time-Energy Entanglement Swapping Based on Dense Wavelength Division Multiplexed and Sum-Frequency Generation. <i>Physical Review Letters</i> , 2019, 123, 250505.	2.9	18
50	Experimental Demonstration of Dynamical Input Isolation in Nonadiabatically Modulated Photonic Cavities. <i>ACS Photonics</i> , 2019, 6, 162-169.	3.2	13
51	Coherent modulation of superradiance from nitrogen ions pumped with femtosecond pulses. <i>Optics Express</i> , 2019, 27, 12638.	1.7	33
52	Experimental Band Structure Spectroscopy along the Synthetic Dimension. , 2019, , .		0
53	Pulse shortening in two coupled rings under amplitude modulations with parity-time symmetry. , 2019, , .		0
54	Laser without population inversion of nitrogen ions pumped by femtosecond pulses. , 2019, , .		1

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55	Two-Photon Infrared Resonance Can Enhance Coherent Raman Scattering. Physical Review Letters, 2018, 120, 063602.	2.9	25
56	Effects of non-Hermitian perturbations on Weyl Hamiltonians with arbitrary topological charges. Physical Review B, 2018, 97, .	1.1	114
57	Synthetic space with arbitrary dimensions in a few rings undergoing dynamic modulation. Physical Review B, 2018, 97, .	1.1	59
58	Pulse shortening in an actively mode-locked laser with parity-time symmetry. APL Photonics, 2018, 3, 086103.	3.0	20
59	Effective electric-field force for a photon in a synthetic frequency lattice created in a waveguide modulator. Physical Review A, 2018, 97, .	1.0	34
60	Synthetic dimension in photonics. Optica, 2018, 5, 1396.	4.8	276
61	Achieving Topological Photonics in a Synthetic Space with Dynamically Modulated Ring Resonators. , 2018, , .		0
62	Effects of non-Hermitian perturbations on Weyl Hamiltonians with arbitrary topological charges. , 2018, , .		1
63	Synthetic gauge potential and effective magnetic field in a Raman medium undergoing molecular modulation. Physical Review A, 2017, 95, .	1.0	10
64	Frequency-axis light transport and topological effects in dynamic photonic structures. Proceedings of SPIE, 2017, , .	0.8	0
65	Directional coherent light via intensity-induced sideband emission. Light: Science and Applications, 2017, 6, e16262-e16262.	7.7	10
66	Quantum superradiant amplification in rubidium vapors: gain assessment. Proceedings of SPIE, 2017, , .	0.8	0
67	Creating anyons from photons using a nonlinear resonator lattice subject to dynamic modulation. Physical Review A, 2017, 96, .	1.0	7
68	Photonic Weyl Point in a 2D Resonator Array with a Synthetic Frequency Dimension. , 2017, , .		0
69	Achieving the gauge potential in a synthetic space using coherent Raman sideband generation. , 2017, , .		0
70	Photonic Weyl point in a two-dimensional resonator lattice with a synthetic frequency dimension. Nature Communications, 2016, 7, 13731.	5.8	170
71	Bloch oscillation and unidirectional translation of frequency in a dynamically modulated ring resonator. Optica, 2016, 3, 1014.	4.8	79
72	Time reversal of a wave packet with temporal modulation of gauge potential. Physical Review B, 2016, 94, .	1.1	17

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73	Photonic gauge potential in a system with a synthetic frequency dimension. Optics Letters, 2016, 41, 741.	1.7	195
74	Evidence of Anderson localization effects in random Raman lasing. , 2016, , .		4
75	Achieving the gauge potential for the photon in a synthetic space. , 2016, , .		1
76	Topologically nontrivial Floquet band structure in a system undergoing photonic transitions in the ultrastrong-coupling regime. Physical Review A, 2015, 92, .	1.0	26
77	Recent advances on non-reciprocal light manipulation from dynamic modulation. , 2015, , .		0
78	Achieving nonreciprocal unidirectional single-photon quantum transport using the photonic Aharonov-Bohm effect. Optics Letters, 2015, 40, 5140.	1.7	46
79	Three-Dimensional Dynamic Localization of Light from a Time-Dependent Effective Gauge Field for Photons. Physical Review Letters, 2015, 114, 243901.	2.9	36
80	Observing the transition from yoked superfluorescence to superradiance. Optics Communications, 2015, 351, 45-49.	1.0	12
81	Topological phase transitions in superradiance lattices. Optica, 2015, 2, 712.	4.8	38
82	Using time-dependent effective gauge field for photons to achieve dynamic localization of light. , 2015, , .		0
83	Transient lasing without inversion via forbidden and virtual transitions. Physical Review A, 2014, 89, .	1.0	21
84	Sideband generation of transient lasing without population inversion. Physical Review A, 2014, 90, .	1.0	5
85	Transient lasing without inversion. New Journal of Physics, 2013, 15, 053044.	1.2	29
86	Quantum Amplification by Superradiant Emission of Radiation. Physical Review X, 2013, 3, .	2.8	42
87	Theoretical analysis of the coherence-brightened laser in air. Physical Review A, 2013, 87, .	1.0	35
88	Plasma-assisted coherent backscattering for standoff spectroscopy. Optics Letters, 2012, 37, 987.	1.7	11
89	Gain without population inversion in a yoked superfluorescence scheme. Physical Review A, 2012, 85, .	1.0	10
90	Observing Superradiant Decay of Excited-State Helium Atoms Inside Helium Plasma. Physical Review Letters, 2012, 109, 093604.	2.9	21

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91	Coherence brightened laser source for atmospheric remote sensing. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15185-15190.	3.3	65
92	Tracking molecular wave packets in cesium dimers by coherent Raman scattering. Physical Review A, 2012, 86, .	1.0	2
93	Ultralow-power local laser control of the dimer density in alkali-metal vapors through photodesorption. Applied Physics Letters, 2012, 101, 091107.	1.5	3
94	Coherent Raman Umklappscattering. Laser Physics Letters, 2011, 8, 736-741.	0.6	24
95	Quantum correlations and violation of the Bell inequality induced by an external field in a two-photon radiative cascade. Physical Review A, 2011, 83, .	1.0	2
96	Femtosecond wave-packet dynamics in cesium dimers studied through controlled stimulated emission. Physical Review A, 2010, 81, .	1.0	12
97	Nanosphere monolayer-templated, ion-assisted nanofeature etching in dielectric materials: a numerical simulation of nanoscale ion flux topography. Nanotechnology, 2008, 19, 155304.	1.3	16
98	Low temperature deposition of nanocrystalline TiO ₂ films: enhancement of nanocrystal formation by energetic particle bombardment. Journal Physics D: Applied Physics, 2007, 40, 219-226.	1.3	31
99	Ion current distribution during deposition of dielectric material using an insulating porous alumina template. Journal Physics D: Applied Physics, 2007, 40, 7766-7770.	1.3	4
100	Plasma-controlled nanocrystallinity and phase composition of TiO ₂ : A smart way to enhance biomimetic response. Journal of Biomedical Materials Research - Part A, 2007, 81A, 453-464.	2.1	42
101	Templated iâ€PVD of Metallic Nanodot Arrays. Plasma Processes and Polymers, 2007, 4, 612-620.	1.6	12
102	The effect of surface roughness and wettability of nanostructured TiO ₂ film on TCA-8113 epithelial-like cells. Surface and Coatings Technology, 2006, 200, 6155-6160.	2.2	70