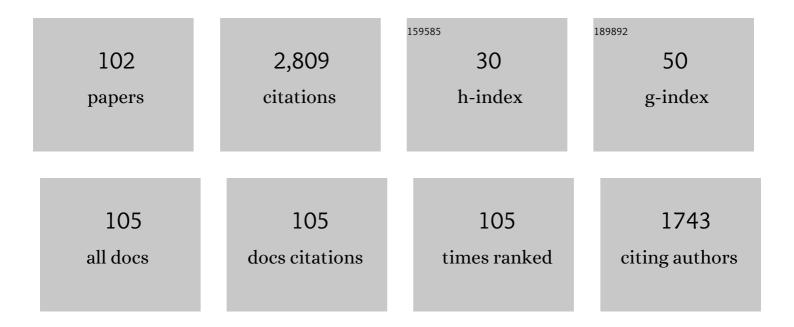
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Synthetic dimension in photonics. Optica, 2018, 5, 1396.	9.3	276
2	Photonic gauge potential in a system with a synthetic frequency dimension. Optics Letters, 2016, 41, 741.	3.3	195
3	A single photonic cavity with two independent physical synthetic dimensions. Science, 2020, 367, 59-64.	12.6	175
4	Photonic Weyl point in a two-dimensional resonator lattice with a synthetic frequency dimension. Nature Communications, 2016, 7, 13731.	12.8	170
5	Effects of non-Hermitian perturbations on Weyl Hamiltonians with arbitrary topological charges. Physical Review B, 2018, 97, .	3.2	114
6	Experimental band structure spectroscopy along a synthetic dimension. Nature Communications, 2019, 10, 3122.	12.8	95
7	Bloch oscillation and unidirectional translation of frequency in a dynamically modulated ring resonator. Optica, 2016, 3, 1014.	9.3	79
8	The effect of surface roughness and wettability of nanostructured TiO2 film on TCA-8113 epithelial-like cells. Surface and Coatings Technology, 2006, 200, 6155-6160.	4.8	70
9	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.	7.1	65
10	Synthetic space with arbitrary dimensions in a few rings undergoing dynamic modulation. Physical Review B, 2018, 97, .	3.2	59
11	Topological dissipation in a time-multiplexed photonic resonator network. Nature Physics, 2022, 18, 442-449.	16.7	58
12	Roadmap on topological photonics. JPhys Photonics, 2022, 4, 032501.	4.6	56
13	Lasing without population inversion in N2+. APL Photonics, 2019, 4, .	5.7	55
14	Photonic Gauge Potential in One Cavity with Synthetic Frequency and Orbital Angular Momentum Dimensions. Physical Review Letters, 2019, 122, 083903.	7.8	54
15	Direct Visualizing the Spin Hall Effect of Light via Ultrahigh-Order Modes. Physical Review Letters, 2020, 124, 053902.	7.8	54
16	Achieving nonreciprocal unidirectional single-photon quantum transport using the photonic Aharonov–Bohm effect. Optics Letters, 2015, 40, 5140.	3.3	46
17	Topologically protected quantum entanglement emitters. Nature Photonics, 2022, 16, 248-257.	31.4	45
18	Meron Spin Textures in Momentum Space. Physical Review Letters, 2020, 124, 106103.	7.8	44

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19	Synthetic frequency dimensions in dynamically modulated ring resonators. APL Photonics, 2021, 6, .	5.7	44
20	Plasma-controlled nanocrystallinity and phase composition of TiO2: A smart way to enhance biomimetic response. Journal of Biomedical Materials Research - Part A, 2007, 81A, 453-464.	4.0	42
21	Quantum Amplification by Superradiant Emission of Radiation. Physical Review X, 2013, 3, .	8.9	42
22	Topological phases in ring resonators: recent progress and future prospects. Nanophotonics, 2020, 9, 4473-4487.	6.0	41
23	Topological phase transitions in superradiance lattices. Optica, 2015, 2, 712.	9.3	38
24	Flat-Band Localization in Creutz Superradiance Lattices. Physical Review Letters, 2021, 126, 103601.	7.8	38
25	Three-Dimensional Dynamic Localization of Light from a Time-Dependent Effective Gauge Field for Photons. Physical Review Letters, 2015, 114, 243901.	7.8	36
26	Theoretical analysis of the coherence-brightened laser in air. Physical Review A, 2013, 87, .	2.5	35
27	Effective electric-field force for a photon in a synthetic frequency lattice created in a waveguide modulator. Physical Review A, 2018, 97, .	2.5	34
28	Coherent modulation of superradiance from nitrogen ions pumped with femtosecond pulses. Optics Express, 2019, 27, 12638.	3.4	33
29	Low temperature deposition of nanocrystalline TiO2films: enhancement of nanocrystal formation by energetic particle bombardment. Journal Physics D: Applied Physics, 2007, 40, 219-226.	2.8	31
30	Dynamic band structure measurement in the synthetic space. Science Advances, 2021, 7, .	10.3	31
31	Transient lasing without inversion. New Journal of Physics, 2013, 15, 053044.	2.9	29
32	Topologically nontrivial Floquet band structure in a system undergoing photonic transitions in the ultrastrong-coupling regime. Physical Review A, 2015, 92, .	2.5	26
33	Recent Advances in Air Lasing: A Perspective from Quantum Coherence. Advanced Quantum Technologies, 2019, 2, 1900080.	3.9	26
34	Two-Photon Infrared Resonance Can Enhance Coherent Raman Scattering. Physical Review Letters, 2018, 120, 063602.	7.8	25
35	Coherent Raman Umklappscattering. Laser Physics Letters, 2011, 8, 736-741.	1.4	24
36	Observing Superradiant Decay of Excited-State Helium Atoms Inside Helium Plasma. Physical Review Letters, 2012, 109, 093604.	7.8	21

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37	Transient lasing without inversion via forbidden and virtual transitions. Physical Review A, 2014, 89, .	2.5	21
38	Creating boundaries along a synthetic frequency dimension. Nature Communications, 2022, 13, .	12.8	21
39	Pulse shortening in an actively mode-locked laser with parity-time symmetry. APL Photonics, 2018, 3, 086103.	5.7	20
40	Creating locally interacting Hamiltonians in the synthetic frequency dimension for photons. Photonics Research, 2020, 8, B8.	7.0	20
41	Topological holographic quench dynamics in a synthetic frequency dimension. Light: Science and Applications, 2021, 10, 209.	16.6	20
42	Multiuser Time-Energy Entanglement Swapping Based on Dense Wavelength Division Multiplexed and Sum-Frequency Generation. Physical Review Letters, 2019, 123, 250505.	7.8	18
43	Bound state in a giant atom-modulated resonators system. Npj Quantum Information, 2022, 8, .	6.7	18
44	Time reversal of a wave packet with temporal modulation of gauge potential. Physical Review B, 2016, 94, .	3.2	17
45	Isolated Photonic Flatband with the Effective Magnetic Flux in a Synthetic Space Including the Frequency Dimension. Laser and Photonics Reviews, 2020, 14, 2000041.	8.7	17
46	Coherent control of the multiple wavelength lasing of \${m N}_2^ +\$: coherence transfer and beyond. Optica, 2021, 8, 668.	9.3	17
47	Asymmetric Topological Valley Edge States on Siliconâ€Onâ€Insulator Platform. Laser and Photonics Reviews, 2022, 16, .	8.7	17
48	Nanosphere monolayer-templated, ion-assisted nanofeature etching in dielectric materials: a numerical simulation of nanoscale ion flux topography. Nanotechnology, 2008, 19, 155304.	2.6	16
49	Ultraviolet supercontinuum generation driven by ionic coherence in a strong laser field. Nature Communications, 2022, 13, .	12.8	14
50	Tunable super- and subradiant boundary states in one-dimensional atomic arrays. Communications Physics, 2019, 2, .	5.3	13
51	Experimental Demonstration of Dynamical Input Isolation in Nonadiabatically Modulated Photonic Cavities. ACS Photonics, 2019, 6, 162-169.	6.6	13
52	ONE-WAY TOPOLOGICAL STATES ALONG VAGUE BOUNDARIES IN SYNTHETIC FREQUENCY DIMENSIONS INCLUDING GROUP VELOCITY DISPERSION (INVITED). Progress in Electromagnetics Research, 2020, 169, 33-43.	4.4	13
53	Background-free single-beam coherent Raman spectroscopy assisted by air lasing. Optics Letters, 2022, 47, 481.	3.3	13
54	Templated iâ€₽VD of Metallic Nanodot Arrays. Plasma Processes and Polymers, 2007, 4, 612-620.	3.0	12

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55	Femtosecond wave-packet dynamics in cesium dimers studied through controlled stimulated emission. Physical Review A, 2010, 81, .	2.5	12
56	Observing the transition from yoked superfluorescence to superradiance. Optics Communications, 2015, 351, 45-49.	2.1	12
57	Photon retention in coherently excited nitrogen ions. Science Bulletin, 2021, 66, 1511-1517.	9.0	12
58	Plasma-assisted coherent backscattering for standoff spectroscopy. Optics Letters, 2012, 37, 987.	3.3	11
59	Gain without population inversion in a yoked superfluorescence scheme. Physical Review A, 2012, 85, .	2.5	10
60	Synthetic gauge potential and effective magnetic field in a Raman medium undergoing molecular modulation. Physical Review A, 2017, 95, .	2.5	10
61	Directional coherent light via intensity-induced sideband emission. Light: Science and Applications, 2017, 6, e16262-e16262.	16.6	10
62	Frequency Manipulations in Single-Photon Quantum Transport under Ultrastrong Driving. ACS Photonics, 2020, 7, 2010-2017.	6.6	10
63	Phonon-induced anomalous gauge potential for photonic isolation in frequency space. Optica, 2021, 8, 1448.	9.3	10
64	Temporal modulation brings metamaterials into new era. Light: Science and Applications, 2022, 11, .	16.6	10
65	Eigenstates Transition without Undergoing an Adiabatic Process. Physical Review Letters, 2019, 122, 050404.	7.8	9
66	Arbitrary synthetic dimensions via multiboson dynamics on a one-dimensional lattice. Physical Review Research, 2021, 3, .	3.6	9
67	Observation of flat-band and band transition in the synthetic space. Advanced Photonics, 2022, 4, .	11.8	9
68	Single-Photon Transport in a Topological Waveguide from a Dynamically Modulated Photonic System. Physical Review Applied, 2020, 14, .	3.8	8
69	Single Pulse Manipulations in Synthetic Timeâ€Frequency Space. Laser and Photonics Reviews, 2022, 16, 2100340.	8.7	8
70	Creating anyons from photons using a nonlinear resonator lattice subject to dynamic modulation. Physical Review A, 2017, 96, .	2.5	7
71	Truncation-dependent <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script"&gt;PT</mml:mi </mml:math> phase transition for the edge states of a two-dimensional non-Hermitian system. Physical Review B, 2022, 105, .	3.2	6
72	Sideband generation of transient lasing without population inversion. Physical Review A, 2014, 90, .	2.5	5

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73	Femtosecond laser-induced quantum-beat superfluorescence of atomic oxygen in a flame. Physical Review A, 2021, 104, .	2.5	5
74	Ion current distribution during deposition of dielectric material using an insulating porous alumina template. Journal Physics D: Applied Physics, 2007, 40, 7766-7770.	2.8	4
75	Evidence of Anderson localization effects in random Raman lasing. , 2016, , .		4
76	Simulating graphene dynamics in synthetic space with photonic rings. Communications Physics, 2021, 4, .	5.3	4
77	Ultralow-power local laser control of the dimer density in alkali-metal vapors through photodesorption. Applied Physics Letters, 2012, 101, 091107.	3.3	3
78	Quantum correlations and violation of the Bell inequality induced by an external field in a two-photon radiative cascade. Physical Review A, 2011, 83, .	2.5	2
79	Tracking molecular wave packets in cesium dimers by coherent Raman scattering. Physical Review A, 2012, 86, .	2.5	2
80	Understanding the Seeding Pulse-Induced Optical Amplification in N2 + Pumped by 800 NM Femtosecond Laser Pulses. Photonics, 2020, 7, 99.	2.0	2
81	Technologically feasible quasi-edge states and topological Bloch oscillation in the synthetic space. Optics Express, 2022, 30, 24924.	3.4	2
82	All-Optical Control of the Photonic Hall Lattice in a Pumped Waveguide Array. Physical Review Applied, 2022, 17, .	3.8	2
83	Analytical study of the spiky feature in a two-photon driven lossy ladder system. Laser Physics, 2019, 29, 105203.	1.2	1
84	Achieving the gauge potential for the photon in a synthetic space. , 2016, , .		1
85	Effects of non-Hermitian perturbations on Weyl Hamiltonians with arbitrary topological charges. , 2018, , .		1
86	Laser without population inversion of nitrogen ions pumped by femtosecond pulses. , 2019, , .		1
87	Recent advances on non-reciprocal light manipulation from dynamic modulation. , 2015, , .		Ο
88	Using time-dependent effective gauge field for photons to achieve dynamic localization of light. , 2015, , .		0
89	Frequency-axis light transport and topological effects in dynamic photonic structures. Proceedings of SPIE, 2017, , .	0.8	0
90	Quantum superradiant amplification in rubidium vapors: gain assessment. Proceedings of SPIE, 2017, , .	0.8	0

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91	Hidden equivalence in the collective emission from a dilute atomic cloud. Physical Review A, 2019, 99, .	2.5	0
92	Photonic Meron Spin Texture in Momentum Space. , 2021, , .		0
93	Experimental Demonstration of Dynamic Band Structure Measurement along a Synthetic Dimension. , 2021, , .		Ο
94	Control of photons with the effective magnetic flux in synthetic dimensions with rings including GVD. , 2021, , .		0
95	Photonic Weyl Point in a 2D Resonator Array with a Synthetic Frequency Dimension. , 2017, , .		0
96	Achieving the gauge potential in a synthetic space using coherent Raman sideband generation. , 2017, , .		0
97	Achieving Topological Photonics in a Synthetic Space with Dynamically Modulated Ring Resonators. , 2018, , .		0
98	Experimental Band Structure Spectroscopy along the Synthetic Dimension. , 2019, , .		0
99	Pulse shortening in two coupled rings under amplitude modulations with parity-time symmetry. , 2019, , .		0
100	Effective magnetic flux induced localization effect on the Lieb-type lattice in synthetic space. , 2020, , .		0
101	Topological Behaviors in Networks of Time-Multiplexed Optical Resonators. , 2020, , .		0
102	Constructing an effective Hamiltonian with local interaction in the synthetic space for photons. , 2020, , .		0