

# Photonic Floquet topological insulators

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Localized nonlinear edge states in honeycomb lattices. <i>Physical Review A</i> , 2013, 88, .	1.0	20
2	Berry curvature effects in the Bloch oscillations of a quantum particle under a strong (synthetic) magnetic field. <i>Europhysics Letters</i> , 2013, 103, 10001.	0.7	14
3	Anomalous Edge States and the Bulk-Edge Correspondence for Periodically Driven Two-Dimensional Systems. <i>Physical Review X</i> , 2013, 3, .	2.8	690
4	Floquet bound states in the continuum. <i>Scientific Reports</i> , 2013, 3, 2219.	1.6	42
5	Artificial honeycomb lattices for electrons, atoms and photons. <i>Nature Nanotechnology</i> , 2013, 8, 625-633.	15.6	377
6	Topological Creation and Destruction of Edge States in Photonic Graphene. <i>Physical Review Letters</i> , 2013, 111, 103901.	2.9	228
7	Controlling multimode coupling by boundary-wave scattering. <i>Physical Review A</i> , 2013, 88, .	1.0	20
8	Four-Dimensional Quantum Hall Effect in a Two-Dimensional Quasicrystal. <i>Physical Review Letters</i> , 2013, 111, 226401.	2.9	181
10	Self-Localized States in Photonic Topological Insulators. <i>Physical Review Letters</i> , 2013, 111, 243905.	2.9	221
11	Theory of Wave Propagation in Magnetized Near-Zero-Epsilon Metamaterials: Evidence for One-Way Photonic States and Magnetically Switched Transparency and Opacity. <i>Physical Review Letters</i> , 2013, 111, 257401.	2.9	96
12	Observation of Floquet-Bloch States on the Surface of a Topological Insulator. <i>Science</i> , 2013, 342, 453-457.	6.0	902
13	Controlling the Flow of Light Using the Inhomogeneous Effective Gauge Field that Emerges from Dynamic Modulation. <i>Physical Review Letters</i> , 2013, 111, 203901.	2.9	88
14	From Few to Many: Observing the Formation of a Fermi Sea One Atom at a Time. <i>Science</i> , 2013, 342, 457-460.	6.0	262
15	Introduction to Dirac materials and topological insulators. <i>Comptes Rendus Physique</i> , 2013, 14, 760-778.	0.3	73
16	Many-body braiding phases in a rotating strongly correlated photon gas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 2074-2078.	0.9	23
17	Photonic insulators with a twist. <i>Nature</i> , 2013, 496, 173-174.	13.7	6
18	Optical Resonator Analog of a Two-Dimensional Topological Insulator. <i>Physical Review Letters</i> , 2013, 110, 203904.	2.9	265
19	Quench dynamics of edge states in 2-D topological insulator ribbons. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	41

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21	Photonic de Haas-van Alphen effect. Optics Express, 2013, 21, 18216.	1.7	16
22	Robust flow of light in three-dimensional dielectric photonic crystals. Optics Letters, 2013, 38, 3460.	1.7	0
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24	Tight-binding couplings in microwave artificial graphene. Physical Review B, 2013, 88, .	1.1	90
25	Generalized energy and time-translation invariance in a driven dissipative system. Physical Review B, 2013, 88, .	1.1	16
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39	Electronic properties of carbon-based nanostructures. , 0, , 11-90.		0
40	Optical waveguide arrays: quantum effects and PT symmetry breaking. EPJ Applied Physics, 2013, 63, 30001.	0.3	65
41	Realization of the Harper Hamiltonian with Ultracold Atoms in Optical Lattices. , 2014, , .		0
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111	Canonical versus noncanonical equilibration dynamics of open quantum systems. <i>Physical Review E</i> , 2014, 90, 022122.	0.8	28
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986	Exceptional points and their coalescence of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetric interface states in photonic crystals. <i>Physical Review B</i> , 2019, 100, .	1.1	12
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1495	Resonant dielectric metasurfaces in strong optical fields. <i>APL Materials</i> , 2021, 9, 060701.	2.2	23
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1512	Higher-order band topology. <i>Nature Reviews Physics</i> , 2021, 3, 520-532.	11.9	249
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1795	Negative index materials: at the frontier of macroscopic electromagnetism. Comptes Rendus Physique, 2020, 21, 343-366.	0.3	2
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1800	Applications of Femtosecond-Laser-Generated In-Volume Structures. , 2021, , 1649-1689.		0
1801	Inverse design of second-order photonic topological insulators in C3-symmetric lattices. Applied Mathematical Modelling, 2022, 102, 194-206.	2.2	11
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1815	Bulk-edge correspondence and topological phases in periodically driven spin-orbit coupled materials in the low-frequency limit. Journal of Physics Communications, 2020, 4, 075019.	0.5	1
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1825	Optical meta-waveguides for integrated photonics and beyond. <i>Light: Science and Applications</i> , 2021, 10, 235.	7.7	196
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1834	Orbitally selective resonant photodoping to enhance superconductivity. <i>Physical Review B</i> , 2021, 104, .	1.1	3
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1850	Topological Photonics (Brief Review). <i>JETP Letters</i> , 2021, 114, 719-728.	0.4	2
1851	Topological phase transition in cavity optomechanical system with periodical modulation. <i>Chinese Physics B</i> , 0, , .	0.7	1
1852	Nonlinear Conical Diffraction in Fractional Dimensions with a $PT$ -Symmetric Optical Lattice. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
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1854	Electro-optical Switching of a Topological Polariton Laser. <i>ACS Photonics</i> , 2022, 9, 405-412.	3.2	7
1855	Roadmap on topological photonics. <i>JPhys Photonics</i> , 2022, 4, 032501.	2.2	56
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1880	Optical Fiber-Integrated Metasurfaces: An Emerging Platform for Multiple Optical Applications. <i>Nanomaterials</i> , 2022, 12, 793.	1.9	14
1881	Observation of Edge Solitons in Topological Trimer Arrays. <i>Physical Review Letters</i> , 2022, 128, 093901.	2.9	41
1882	Unambiguous definition of handedness for locally chiral light. <i>Physical Review A</i> , 2022, 105, .	1.0	5
1883	Quantum phase transitions and a disorder-based filter in a Floquet system. <i>Physical Review B</i> , 2022, 105, .	1.1	1
1884	Non-Hermitian metasurface with non-trivial topology. <i>Nanophotonics</i> , 2022, 11, 1159-1165.	2.9	13
1885	Floquet vortex states induced by light carrying an orbital angular momentum. <i>Physical Review B</i> , 2022, 105, .	1.1	3
1886	Driven Hubbard model on a triangular lattice: Tunable Heisenberg antiferromagnet with a chiral three-spin term. <i>Physical Review B</i> , 2022, 105, .	1.1	5
1887	Polariton condensation into vortex states in the synthetic magnetic field of a strained honeycomb lattice. <i>SciPost Physics</i> , 2022, 12, .	1.5	3
1888	Topological Photonic Crystals: Physics, Designs, and Applications. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	110
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1890	Inverse Klein tunneling effect in binary waveguide arrays. <i>Physical Review A</i> , 2022, 105, .	1.0	5
1891	Electronic Quantum Materials Simulated with Artificial Model Lattices. <i>ACS Nanoscience Au</i> , 2022, 2, 198-224.	2.0	9
1892	Topological optical parametric oscillation. <i>Nanophotonics</i> , 2022, 11, 1611-1618.	2.9	8
1893	Topologically protected quantum entanglement emitters. <i>Nature Photonics</i> , 2022, 16, 248-257.	15.6	45
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1895	Non-Abelian braiding on photonic chips. <i>Nature Photonics</i> , 2022, 16, 390-395.	15.6	58
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1898	Optical forces in photonic Weyl system. <i>New Journal of Physics</i> , 2022, 24, 043019.	1.2	6
1899	Discrete-Time Quantum-Walk & Floquet Topological Insulators via Distance-Selective Rydberg-Interaction. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 6, 664.	0.0	11
1900	Unsupervised identification of Floquet topological phase boundaries. <i>Physical Review Research</i> , 2022, 4, .	1.3	4
1901	Robust Nonequilibrium Edge Currents with and without Band Topology. <i>Physical Review Letters</i> , 2022, 128, 120403.	2.9	1
1902	Real-time simulation of light-driven spin chains on quantum computers. <i>Physical Review Research</i> , 2022, 4, .	1.3	3
1903	Highly band-selective meta-surfaces exhibiting perfect near infrared absorption and concurrent visible band sensing: A numerical study. <i>Science China Technological Sciences</i> , 2022, 65, 809-816.	2.0	1
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1906	Signature of edge states in resonant wave scattering. <i>Physical Review A</i> , 2022, 105, .	1.0	2
1907	Atomic Floquet physics revealed by free electrons. <i>Physical Review Research</i> , 2022, 4, .	1.3	5
1908	Systematic generation of the cascade of anomalous dynamical first- and higher-order modes in Floquet topological insulators. <i>Physical Review B</i> , 2022, 105, .	1.1	15
1909	DC current generation and power feature in strongly driven Floquet-Bloch systems. <i>Physical Review Research</i> , 2022, 4, .	1.3	1
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1912	Observation of optical tunneling inhibition by a parabolic potential in twisted photonic lattices. <i>Physical Review Research</i> , 2022, 4, .	1.3	2
1913	Controllable second harmonic generation based on topological spin-dependent edge states. <i>Journal of Applied Physics</i> , 2022, 131, 113101.	1.1	2
1914	<b>Guest Editorial for APL Special Topic on Synthetic Gauge Field Photonics</b>. <i>APL Photonics</i> , 0, , .	3.0	1
1915	Pseudo-spin-valley coupled topological states protected by different symmetries in photonic crystals. <i>Optics Letters</i> , 2022, 47, 2044.	1.7	16

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1919	Non-Hermitian Weyl semimetal and its Floquet engineering. Physical Review B, 2022, 105, .	1.1	12
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1925	Connecting steady-states of driven-dissipative photonic lattices with spontaneous collective emission phenomena. New Journal of Physics, 2022, 24, 043001.	1.2	1
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1927	Nonlinear conical diffraction in fractional dimensions with a $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg" \rangle \langle \text{mml:mi mathvariant="script" \rangle PT \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetric optical lattice. Chaos, Solitons and Fractals, 2022, 158, 112010.	2.5	4
1928	Solving Maxwell eigenvalue problems for three dimensional isotropic photonic crystals with fourteen Bravais lattices. Journal of Computational and Applied Mathematics, 2022, 410, 114220.	1.1	3
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1931	Direct driving of electronic and phononic degrees of freedom in a honeycomb bilayer with infrared light. Physical Review B, 2021, 104, .	1.1	3
1932	Floquet Edge Multicolor Solitons. Laser and Photonics Reviews, 2022, 16, 2100398.	4.4	8
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1936	Spin-Orbit Interaction of Light Enabled by Negative Coupling in High-Quality-Factor Optical Metasurfaces. Physical Review Applied, 2022, 17, .	1.5	1
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1938	Floquet engineering of excitons in semiconductor quantum dots. Physical Review B, 2022, 105, .	1.1	10
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1941	Synthetic topology and Floquet dynamic quantum phase transition in a periodically driven Raman lattice. Physical Review A, 2022, 105, .	1.0	4
1942	Topological pumping and Tamm states in photonic systems. Physical Review B, 2022, 105, .	1.1	3
1943	Klein tunneling and ballistic transport in graphene and related materials. , 0, , 118-142.		0
1944	Quantum transport in disordered graphene-based materials. , 0, , 143-218.		0
1945	Ab initio and multiscale quantum transport in graphene-based materials. , 0, , 232-299.		0
1946	Electronic structure calculations: the density functional theory (DFT). , 0, , 314-331.		0
1947	Electronic structure calculations: the many-body perturbation theory (MBPT). , 0, , 332-337.		0
1948	Green's functions and ab initio quantum transport in the Landauer-Buttiker formalism. , 0, , 338-357.		0
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1953	Observation of Degenerate Zero-Energy Topological States at Disclinations in an Acoustic Lattice. Physical Review Letters, 2022, 128, 174301.	2.9	35
1954	Topological transitions and Anderson localization of light in disordered atomic arrays. Physical Review A, 2022, 105, .	1.0	8

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1957	Topological Corner States in Non-Unitary Coinless Discrete-Time Quantum Walks. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	0
1958	Floquet topological phases with high Chern numbers in a periodically driven extended Su-Schrieffer-Heeger model. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 305401.	0.7	5
1959	Chip-scale Floquet topological insulators for 5G wireless systems. <i>Nature Electronics</i> , 2022, 5, 300-309.	13.1	24
1960	Tailoring higher-order topological phases via orbital hybridization. <i>Physical Review B</i> , 2022, 105, .	1.1	1
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1964	Topological phase transition induced by gain and loss in a photonic Chern insulator. <i>Physical Review A</i> , 2022, 105, .	1.0	7
1965	Advances and Prospects in Topological Nanoparticle Photonics. <i>ACS Photonics</i> , 2022, 9, 1483-1499.	3.2	25
1966	Band repulsion in periodically modulated lattice models and electromagnetic systems. <i>Physical Review B</i> , 2022, 105, .	1.1	0
1968	Bimorphic Floquet topological insulators. <i>Nature Materials</i> , 2022, 21, 634-639.	13.3	30
1969	Broadband resonance-enhanced frequency generation by four-wave mixing in a silicon Floquet topological photonic insulator. <i>APL Photonics</i> , 2022, 7, .	3.0	7
1970	Tunable topological edge states and rainbow trapping in two dimensional magnetoelastic phononic crystal plates based on an external magnetostatic field. <i>International Journal of Mechanical Sciences</i> , 2022, 225, 107360.	3.6	22
1971	Configurable topological beam splitting via antichiral gyromagnetic photonic crystal. , 2022, 1, 220001-220001.		18
1972	Implementation of an Open Ended PTD-Symmetric Edge Waveguide. , 2022, , .		0
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1994	Observation of edge-to-edge topological transport in a photonic lattice. <i>Physical Review A</i> , 2022, 105, .	1.0	8
1995	Pseudospin Topological Phase Transition Induced by Rotation Operation in Two-Dimensional Dielectric Photonic Crystal with C6 Symmetry. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1996	Topologically Protected All-Optical Memory. <i>Advanced Electronic Materials</i> , 0, , 2200579.	2.6	3
1997	Topology-empowered membrane devices for terahertz photonics. <i>Advanced Photonics</i> , 2022, 4, .	6.2	13
1998	Observation of nonlinearity-controlled switching of topological edge states. <i>Nanophotonics</i> , 2022, 11, 3653-3661.	2.9	7
1999	Nonlinear optical waveguide lattices: Asymptotic analysis, solitons, and topological insulators. <i>Physica D: Nonlinear Phenomena</i> , 2022, 440, 133440.	1.3	10
2000	Reducing circuit complexity in optical quantum computation using 3D architectures. <i>Optics Express</i> , 0, , .	1.7	0
2001	Laser-written vapor cells for chip-scale atomic sensing and spectroscopy. <i>Optics Express</i> , 2022, 30, 27149.	1.7	7
2002	Pair-partitioned bulk localized states induced by topological band inversion. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	12
2003	Vector valley Hall edge solitons in superhoneycomb lattices. <i>Chaos, Solitons and Fractals</i> , 2022, 161, 112364.	2.5	6
2004	Strain induced photonic topological insulator. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 447, 128299.	0.9	1
2005	Optical phase transitions in bilayer semiconductor hyperbolic metamaterials. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2022, 51, 101049.	1.0	1
2006	Robust valley transport of disordered topological waveguide in visible light waveband. <i>Physica B: Condensed Matter</i> , 2022, 642, 414132.	1.3	0
2007	Floquet dynamical quantum phase transitions of the XY spin-chain under periodic quenching. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 604, 127866.	1.2	3
2008	Straight Photonic Nodal Lines with Quadrupole Berry Curvature Distribution and Superimaging of Fermi Arcs. <i>Physical Review Letters</i> , 2022, 129, .	2.9	8
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2014	The Promise of Softâ€Matterâ€Enabled Quantum Materials. Advanced Materials, 2023, 35, .	11.1	4
2015	Inelastic light scattering from a dielectric sphere with a time-varying radius. Physical Review A, 2022, 106, .	1.0	5
2016	Hybrid skin-topological modes without asymmetric couplings. Physical Review B, 2022, 106, .	1.1	37
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2019	Non-Abelian Thouless pumping in photonic waveguides. Nature Physics, 2022, 18, 1080-1085.	6.5	33
2020	Floquet Quadrupole Photonic Crystals Protected by Space-Time Symmetry. Physical Review Letters, 2022, 129, .	2.9	8
2021	Floquet-Weyl semimetals generated by an optically resonant interband transition. Physical Review B, 2022, 106, .	1.1	2
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