

Observation of topologically enabled unidirectional gui

Nature

580, 467-471

DOI: [10.1038/s41586-020-2181-4](https://doi.org/10.1038/s41586-020-2181-4)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Generation and Annihilation of Topologically Protected Bound States in the Continuum and Circularly Polarized States by Symmetry Breaking. <i>Physical Review Letters</i> , 2020, 125, 053902.	2.9	93
2	Observation of phonon trapping in the continuum with topological charges. <i>Nature Communications</i> , 2020, 11, 5216.	5.8	20
3	Magnetoplasmonic structures with broken spatial symmetry for light control at normal incidence. <i>Physical Review B</i> , 2020, 102, .	1.1	20
4	Parametric dependence of bound states in the continuum on periodic structures. <i>Physical Review A</i> , 2020, 102, .	1.0	14
5	Theory of reflectionless scattering modes. <i>Physical Review A</i> , 2020, 102, .	1.0	47
6	Ultrasensitive Surface Refractive Index Imaging Based on Quasi-Bound States in the Continuum. <i>ACS Nano</i> , 2020, 14, 15417-15427.	7.3	67
7	On-Chip Diffraction-Free Beam Guiding beyond the Light Cone. <i>Physical Review Applied</i> , 2020, 13, .	1.5	23
8	Embedded topological edge states from reversed two-dimensional photonic crystals. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 127, 114517.	1.3	7
9	Topology and broken Hermiticity. <i>Nature Physics</i> , 2021, 17, 9-13.	6.5	38
10	Frontiers of light manipulation in natural, metallic, and dielectric nanostructures. <i>Rivista Del Nuovo Cimento</i> , 2021, 44, 1-68.	2.0	28
11	Local field enhancement using a photonic-plasmonic nanostructure. <i>Optics Express</i> , 2021, 29, 1102.	1.7	13
12	Metasurfaces with Bound States in the Continuum Enabled by Eliminating First Fourier Harmonic Component in Lattice Parameters. <i>Physical Review Letters</i> , 2021, 126, 013601.	2.9	14
13	Recent advances in nanocavities and their applications. <i>Chemical Communications</i> , 2021, 57, 4875-4885.	2.2	8
14	Topological polarization singularities in metaphotonics. <i>Nanophotonics</i> , 2021, 10, 1469-1486.	2.9	42
15	Highly Efficient Light Absorption of Monolayer Graphene by Quasi-Bound State in the Continuum. <i>Nanomaterials</i> , 2021, 11, 484.	1.9	47
16	Shaping quantum photonic states using free electrons. <i>Science Advances</i> , 2021, 7, .	4.7	46
17	Merging Bound States in the Continuum at Off-High Symmetry Points. <i>Physical Review Letters</i> , 2021, 126, 117402.	2.9	107
18	Strongly resonant silicon slot metasurfaces with symmetry-protected bound states in the continuum. <i>Optics Express</i> , 2021, 29, 10374.	1.7	67

#	ARTICLE	IF	CITATIONS
19	Evolution and global charge conservation for polarization singularities emerging from non-Hermitian degeneracies. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	17
20	Conditional robustness of propagating bound states in the continuum in structures with two-dimensional periodicity. Physical Review A, 2021, 103, .	1.0	11
22	Topological scattering singularities and embedded eigenstates for polarization control and sensing applications. Photonics Research, 2021, 9, 1310.	3.4	31
23	Magnetic Quasi-Bound State in the Continuum for Wireless Power Transfer. Physical Review Applied, 2021, 15, .	1.5	20
24	Circularly polarized states and propagating bound states in the continuum in a periodic array of cylinders. Physical Review A, 2021, 103, .	1.0	9
25	Near-Zero Index Photonic Crystals with Directive Bound States in the Continuum. Laser and Photonics Reviews, 2021, 15, 2000559.	4.4	18
26	Unidirectional guided resonances in anisotropic waveguides. Optics Letters, 2021, 46, 2545.	1.7	7
27	Simple reformulation of the coordinate transformation method for gratings with a vertical facet or overhanging profile. Applied Optics, 2021, 60, 4305.	0.9	4
28	Integrated photonics on thin-film lithium niobate. Advances in Optics and Photonics, 2021, 13, 242.	12.1	503
29	Extremize Optical Chiralities through Polarization Singularities. Physical Review Letters, 2021, 126, 253901.	2.9	33
30	Creation of Fano resonances and bound states in the continuum in metallic metasurface superlattices. Optics Express, 2021, 29, 21492.	1.7	2
31	Bound States in the Continuum and Unidirectional Guided Resonances in Anisotropic Structures with Multiple Radiation Channels. , 2021, , .		0
32	Nanoparticle Trapping in a Quasi-BIC System. ACS Photonics, 2021, 8, 1961-1971.	3.2	58
33	Ultralow-threshold laser using super-bound states in the continuum. Nature Communications, 2021, 12, 4135.	5.8	181
34	Negative refraction mediated by bound states in the continuum. Photonics Research, 2021, 9, 1592.	3.4	11
35	Geometry symmetry-free and higher-order optical bound states in the continuum. Nature Communications, 2021, 12, 4390.	5.8	25
36	Polarization Singularities of Photonic Quasicrystals in Momentum Space. Physical Review Letters, 2021, 127, 043901.	2.9	22
37	Laplace metasurfaces for optical analog computing based on quasi-bound states in the continuum. Photonics Research, 2021, 9, 1758.	3.4	36

#	ARTICLE	IF	CITATIONS
38	High-Efficiency, Wide Working Bandwidth Antenna Based on SOI Platform for Optical Phased Array. <i>Micromachines</i> , 2021, 12, 996.	1.4	2
39	Configurable Phase Transitions in a Topological Thermal Material. <i>Physical Review Letters</i> , 2021, 127, 105901.	2.9	31
40	Plexcitonic Quasi-Bound States in the Continuum. <i>Small</i> , 2021, 17, 2102596.	5.2	6
41	Blind zone-suppressed hybrid beam steering for solid-state Lidar. <i>Photonics Research</i> , 2021, 9, 1871.	3.4	25
42	Tunable Resonant Photopyroelectric Detector Using Chalcogenide Metal Fluoropolymer Nanograting. <i>Advanced Optical Materials</i> , 0, , 2101147.	3.6	2
43	High-quality-factor dual-band Fano resonances induced by dual bound states in the continuum using a planar nanohole slab. <i>Nanoscale Research Letters</i> , 2021, 16, 150.	3.1	17
44	Fourier-component engineering to control light diffraction beyond subwavelength limit. <i>Nanophotonics</i> , 2021, 10, 3917-3925.	2.9	1
45	High-efficiency chirped grating couplers on lithium niobate on insulator. <i>Optics Letters</i> , 2020, 45, 6651.	1.7	30
46	Manipulating light radiation from a topological perspective. <i>Photonics Research</i> , 2020, 8, B25.	3.4	21
47	Bound states in the continuum (BIC) accompanied by avoided crossings in leaky-mode photonic lattices. <i>Nanophotonics</i> , 2020, 9, 4373-4380.	2.9	55
48	PT Symmetry Induced Rings of Lasing Threshold Modes Embedded with Discrete Bound States in the Continuum. <i>Chinese Physics Letters</i> , 2021, 38, 084203.	1.3	10
49	Resonance-forbidden second-harmonic generation in nonlinear photonic crystals. <i>Nanophotonics</i> , 2021, 10, 4233-4239.	2.9	6
50	Wireless power transfer based on novel physical concepts. <i>Nature Electronics</i> , 2021, 4, 707-716.	18.1	79
51	Observation of miniaturized bound states in the continuum with ultra-high quality factors. <i>Science Bulletin</i> , 2022, 67, 359-366.	4.3	52
52	Dual Quasi-Bound States in the Continuum Modes for Optical Activity Manipulation. <i>IEEE Photonics Journal</i> , 2021, 13, 1-5.	1.0	1
53	Dynamics of Topological Polarization Singularity in Momentum Space. <i>Physical Review Letters</i> , 2021, 127, 176101.	2.9	50
54	Bound states in the continuum in resonant nanostructures: an overview of engineered materials for tailored applications. <i>Nanophotonics</i> , 2021, 10, 4175-4207.	2.9	111
55	Optical meta-waveguides for integrated photonics and beyond. <i>Light: Science and Applications</i> , 2021, 10, 235.	7.7	196

#	ARTICLE	IF	CITATIONS
56	Observation of intensity flattened phase shifting enabled by unidirectional guided resonance. <i>Nanophotonics</i> , 2021, 10, 4467-4475.	2.9	8
57	Roadmap on topological photonics. <i>JPhys Photonics</i> , 2022, 4, 032501.	2.2	56
58	High-Harmonic Generation from Resonant Dielectric Metasurfaces Empowered by Bound States in the Continuum. <i>ACS Photonics</i> , 2022, 9, 567-574.	3.2	84
59	Low-Symmetry Nanophotonics. <i>ACS Photonics</i> , 2022, 9, 2-24.	3.2	13
60	Nanoscale mapping of optically inaccessible bound-states-in-the-continuum. <i>Light: Science and Applications</i> , 2022, 11, 20.	7.7	28
61	Bound states in the continuum of the periodic nanostructure with three nanobars in one lattice. <i>Optik</i> , 2022, 253, 168588.	1.4	2
62	Evolution and Nonreciprocity of Loss-Induced Topological Phase Singularity Pairs. <i>Physical Review Letters</i> , 2021, 127, 266101.	2.9	42
63	Topological Photonic Crystals: Physics, Designs, and Applications. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	110
64	Optical Bound States in the Continuum Enabled by Magnetic Resonances Coupled to a Mirror. <i>Nano Letters</i> , 2022, 22, 2001-2008.	4.5	38
65	Symmetry-protected bound states in the continuum in graphene nanoribbons. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 055001.	1.0	4
66	Enhanced light-matter interaction in two-dimensional transition metal dichalcogenides. <i>Reports on Progress in Physics</i> , 2022, 85, 046401.	8.1	74
67	Bound states in the continuum based on the total internal reflection of Bloch waves. <i>National Science Review</i> , 2023, 10, .	4.6	11
68	Fundamentals and Applications of Topological Polarization Singularities. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	4
69	Bound states in the continuum on flatbands of symmetry-broken photonic crystal slabs. <i>Journal of Optics (United Kingdom)</i> , 0, , .	1.0	1
70	Reflective high-efficient and compact optical antenna on GaAs/AlGaAs platform. <i>Optics Communications</i> , 2022, 512, 128063.	1.0	1
71	Observation of bound states in the continuum embedded in symmetry bandgaps. <i>Science Advances</i> , 2021, 7, eabk1117.	4.7	22
72	Bound Topological Edge State in the Continuum for All-Dielectric Photonic Crystals. <i>Physical Review Applied</i> , 2021, 16, .	1.5	18
73	Manipulating Optical Scattering of Quasi-BIC in Dielectric Metasurface with Off-Center Hole. <i>Nanomaterials</i> , 2022, 12, 54.	1.9	14

#	ARTICLE	IF	CITATIONS
74	Observation of Giant Extrinsic Chirality Empowered by Quasi-Bound States in the Continuum. <i>Physical Review Applied</i> , 2021, 16, .	1.5	32
75	Unfolded band structures of photonic quasicrystals and moiré superlattices. <i>Physical Review B</i> , 2022, 105, .	1.1	3
76	Spin-Orbit Interaction of Light Enabled by Negative Coupling in High-Quality-Factor Optical Metasurfaces. <i>Physical Review Applied</i> , 2022, 17, .	1.5	1
77	Current-induced hole spin polarization in a quantum dot via a chiral quasi bound state. <i>Nanoscale Horizons</i> , 2022, 7, 752-758.	4.1	2
78	Controlling Topology and Polarization State of Lasing Photonic Bound States in Continuum. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	28
79	Nanophotonic nonlinear and laser devices exploiting bound states in the continuum. <i>Communications Physics</i> , 2022, 5, .	2.0	27
80	Magnetic Modulation of Topological Polarization Singularities in Momentum Space. <i>Optics Letters</i> , 0, , .	1.7	1
81	All-pass phase shifting enabled by symmetric topological unidirectional guided resonances. <i>Optics Letters</i> , 2022, 47, 2875.	1.7	5
82	Bound valley edge states in the continuum. <i>Optics Letters</i> , 2022, 47, 3107.	1.7	5
83	Evolution of polarization singularities accompanied by avoided crossing in a plasmonic system. <i>Chinese Physics B</i> , 0, , .	0.7	0
84	Moiré Quasibound States in the Continuum. <i>Physical Review Letters</i> , 2022, 128, .	2.9	34
85	Adjustable converter of bound state in the continuum basing on metal-graphene hybrid metasurfaces. <i>Optics Express</i> , 2022, 30, 23828.	1.7	11
86	A Microstructured Laser With Modulated Period for Beam Control. <i>IEEE Photonics Journal</i> , 2022, 14, 1-6.	1.0	2
87	Unidirectional bound states in the continuum in Weyl semimetal nanostructures. <i>Photonics Research</i> , 2022, 10, 1828.	3.4	7
88	Merging bound states in the continuum by harnessing higher-order topological charges. <i>Light: Science and Applications</i> , 2022, 11, .	7.7	38
89	Surface-Normal Free-Space Beam Projection via Slow-Light Standing-Wave Resonance Photonic Gratings. <i>ACS Photonics</i> , 0, , .	3.2	0
90	Pair-partitioned bulk localized states induced by topological band inversion. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	12
91	Tailoring the light absorption of monolayer graphene via accidental quasi-bound states in the continuum. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022, 39, 2531.	0.9	16

#	ARTICLE	IF	CITATIONS
92	Recent Advances in Tunable Metasurfaces: Materials, Design, and Applications. ACS Nano, 2022, 16, 13339-13369.	7.3	54
93	Momentum-space polarization fields in two-dimensional photonic-crystal slabs: Physics and applications. Chinese Physics B, 2022, 31, 104211.	0.7	2
94	Fully integrated topological electronics. Scientific Reports, 2022, 12, .	1.6	4
95	Analytical non-Hermitian description of photonic crystals with arbitrary lateral and transverse symmetry. Physical Review A, 2022, 106, .	1.0	7
96	Chiral emission from resonant metasurfaces. Science, 2022, 377, 1215-1218.	6.0	132
97	Dual bound states in the continuum enhanced second harmonic generation with transition metal dichalcogenides monolayer. Opto-Electronic Advances, 2022, 5, 200097-200097.	6.4	20
98	Boosting second-harmonic generation in the LiNbO_3 metasurface using high-Q guided resonances and bound states in the continuum. Physical Review B, 2022, 106, .	1.1	26
99	Enhanced bound states in the continuum in a DBR-assisted photonic crystal slab. Applied Optics, 2022, 61, 8527.	0.9	0
100	Nano-electromechanical spatial light modulator enabled by asymmetric resonant dielectric metasurfaces. Nature Communications, 2022, 13, .	5.8	9
101	Low-symmetry nanophotonics. , 2022, , .		0
102	Control of Quasibound Waves in Spiral Metasurfaces. ACS Photonics, 2022, 9, 3592-3599.	3.2	3
103	Electrically Tunable and Robust Bound States in the Continuum Enabled by 2D Transition Metal Dichalcogenide. Advanced Optical Materials, 2022, 10, .	3.6	9
104	Plasmonic Bound States in the Continuum in Compact Nanostructures. Advanced Optical Materials, 2022, 10, .	3.6	7
105	Adjacent Asymmetric Tilt Grating Structure With Strong Resonance Assisted by Quasi-Bound States in the Continuum. IEEE Photonics Journal, 2022, 14, 1-6.	1.0	6
106	Improved Smith-Purcell free-electron laser based on quasi-bound states in the continuum. Journal Physics D: Applied Physics, 0, , .	1.3	2
107	Topological spin defects of light. Optica, 2022, 9, 1417.	4.8	4
108	Simulating topological materials with photonic synthetic dimensions in cavities. , 2022, 1, .		1
109	Spin Hall Effect of Light via Momentum-Space Topological Vortices around Bound States in the Continuum. Physical Review Letters, 2022, 129, .	2.9	30

#	ARTICLE	IF	CITATIONS
110	Realizing Tunable Evolution of Bound States in the Continuum and Circularly Polarized Points by Symmetry Breaking. ACS Photonics, 2023, 10, 2316-2322.	3.2	9
111	Multiband topological states in the Penrose-triangle photonic crystals. Optics Letters, 2023, 48, 101.	1.7	17
112	Topological metasurface: from passive toward active and beyond. Photonics Research, 2023, 11, B65.	3.4	16
113	Dynamics of diverse polarization singularities in momentum space with far-field interference. Physical Review A, 2023, 107, .	1.0	3
114	Resonant leaky modes in all-dielectric metasystems: Fundamentals and applications. Physics Reports, 2023, 1008, 1-66.	10.3	54
115	Observation of intrinsic chiral bound states in the continuum. Nature, 2023, 613, 474-478.	13.7	95
116	Observation of Topologically Enabled Complete Polarization Conversion. Laser and Photonics Reviews, 2023, 17, .	4.4	4
117	Spin-decoupled excitation and wavefront shaping of structured surface waves <i>via</i> on-chip terahertz metasurfaces. Nanoscale, 2023, 15, 4515-4522.	2.8	5
118	Topological Unidirectional Guided Resonances Emerged from Interband Coupling. Physical Review Letters, 2023, 130, .	2.9	9
119	All-dielectric metasurface-based multimode sensing with symmetry-protected and accidental bound states in the continuum. Results in Physics, 2023, 46, 106276.	2.0	13
120	Interaction of plasmonic bound states in the continuum. Photonics Research, 2023, 11, 724.	3.4	7
121	Photonic spin-selective perfect absorptance on planar metasurfaces driven by chiral quasi-bound states in the continuum. Nanoscale, 2023, 15, 6636-6644.	2.8	20
122	Arbitrarily polarized bound states in the continuum with twisted photonic crystal slabs. Light: Science and Applications, 2023, 12, .	7.7	17
123	Non- ϵ Hermitian Control of Topological Scattering Singularities Emerging from Bound States in the Continuum. Laser and Photonics Reviews, 2023, 17, .	4.4	11
124	Experimental Observation of Vector Bound States in the Continuum. Advanced Optical Materials, 2023, 11, .	3.6	4
125	Doubly resonant photonic crystal cavity using merged bound states in the continuum. Physical Review B, 2023, 107, .	1.1	3
126	Perfect linear polarization wave generator based on quasi-bound states in the continuum. Optics Letters, 2023, 48, 2559.	1.7	3
127	Design Strategies and Applications of Dimensional Optical Field Manipulation Based on Metasurfaces. Advanced Materials, 2023, 35, .	11.1	6

#	ARTICLE	IF	CITATIONS
128	Nonlinear nonlocal metasurfaces. Applied Physics Letters, 2023, 122, .	1.5	6
155	Applications of bound states in the continuum in photonics. Nature Reviews Physics, 2023, 5, 659-678.	11.9	6