Ling Lu

List of Publications by Year
in descending order

58 papers	12,022 citations	126907 33 h-index	168389 53 g-index
58 all docs	58 docs citations	58 times ranked	6817 citing authors

#	Article	IF	Citations
1	Topological-cavity surface-emitting laser. Nature Photonics, 2022, 16, 279-283.	31.4	68
2	High-throughput search for lossless metals. Physical Review Materials, 2022, 6, .	2.4	2
3	eLighting up the future. Light: Science and Applications, 2021, 10, 118.	16.6	0
4	Theoretical analysis of glide-Z₂ magnetic topological photonic crystals. Optics Express, 2021, 29, 31164.	3.4	4
5	Surface density of states on semi-infinite topological photonic and acoustic crystals. Physical Review B, 2021, 104, .	3.2	0
6	Dirac-vortex topological cavities. Nature Nanotechnology, 2020, 15, 1012-1018.	31.5	95
7	Electronic correlations and flattened band in magnetic Weyl semimetal candidate Co3Sn2S2. Nature Communications, 2020, 11, 3985.	12.8	51
8	Crystallographic splitting theorem for band representations and fragile topological photonic crystals. Physical Review B, 2020, 102, .	3.2	39
9	Discovering Topological Surface States of Dirac Points. Physical Review Letters, 2020, 124, 104301.	7.8	35
10	Revealing the missing dimension at an exceptional point. Nature Physics, 2020, 16, 571-578.	16.7	100
11	Dirac-vortex topological photonic crystal fibre. Light: Science and Applications, 2020, 9, 202.	16.6	33
12	Diagnosis scheme for topological degeneracies crossing high-symmetry lines. Physical Review Research, 2020, 2, .	3.6	18
13	Observing vortex polarization singularities at optical band degeneracies. Physical Review B, 2019, 99, .	3.2	31
14	Topological photonics. Reviews of Modern Physics, 2019, 91, .	45.6	2,190
15	Generalized Gilatâ€“Raubenheimer method for density-of-states calculation in photonic crystals. Journal of Optics (United Kingdom), 2018, 20, 044005.	2.2	14
16	Experimental discovery of nodal chains. Nature Physics, 2018, 14, 461-464.	16.7	141
17	Ideal Weyl points and helicoid surface states in artificial photonic crystal structures. Science, 2018, 359, 1013-1016.	12.6	250
18	Double-Weyl Phonons in Transition-Metal Monosilicides. Physical Review Letters, 2018, 120, 016401.	7.8	240

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19	Observation of Polarization Vortices in Momentum Space. Physical Review Letters, 2018, 120, 186103.	7.8	168
20	Topological one-way fiber of second Chern number. Nature Communications, 2018, 9, 5384.	12.8	82
21	Space Group Theory of Photonic Bands. Physical Review Letters, 2018, 121, 263903.	7.8	31
22	Topology on a breadboard. Nature Physics, 2018, 14, 875-877.	16.7	19
23	Nano-kirigami with giant optical chirality. Science Advances, 2018, 4, eaat4436.	10.3	203
24	Nodal-knot semimetals. Physical Review B, 2017, 96, .	3.2	158
25	Electromagnetic scattering laws in Weyl systems. Nature Communications, 2017, 8, 1388.	12.8	34
26	Nodal-link semimetals. Physical Review B, 2017, 96, .	3.2	232
27	Topological defects in Floquet systems: Anomalous chiral modes and topological invariant. Physical Review B, 2017, 95, .	3.2	10
28	Infrared Topological Plasmons in Graphene. Physical Review Letters, 2017, 118, 245301.	7.8	132
29	Weyl points in a magnetic tetrahedral photonic crystal. Optics Express, 2017, 25, 15772.	3.4	27
30	Topological magnetoplasmon. Nature Communications, 2016, 7, 13486.	12.8	108
31	Probing topological protection using a designer surface plasmon structure. Nature Communications, 2016, 7, 11619.	12.8	210
32	Topological semimetals with helicoid surfaceÂstates. Nature Physics, 2016, 12, 936-941.	16.7	149
33	Topological states in photonic systems. Nature Physics, 2016, 12, 626-629.	16.7	271
34	Invisible metallic mesh. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2568-2572.	7.1	24
35	Symmetry-protected topological photonic crystal in three dimensions. Nature Physics, 2016, 12, 337-340.	16.7	245
36	Weyl Points in Three-Dimensional Optical Lattices: Synthetic Magnetic Monopoles in Momentum Space. Physical Review Letters, 2015, 114, 225301.	7.8	148

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37	Topological Phononic Crystals with One-Way Elastic Edge Waves. Physical Review Letters, 2015, 115, 104302.	7.8	643
38	Experimental Observation of Large Chern Numbers in Photonic Crystals. Physical Review Letters, 2015, 115, 253901.	7.8	228
39	Experimental observation of Weyl points. Science, 2015, 349, 622-624.	12.6	833
40	Spawning rings of exceptional points out of Dirac cones. Nature, 2015, 525, 354-358.	27.8	610
41	Topological Nature of Optical Bound States in the Continuum. Physical Review Letters, 2014, 113, 257401.	7.8	595
42	Larger-area single-mode photonic crystal surface-emitting lasers enabled by an accidental Dirac point. Optics Letters, 2014, 39, 2072.	3.3	63
43	Topological photonics. Nature Photonics, 2014, 8, 821-829.	31.4	2,492
44	Multimode One-Way Waveguides of Large Chern Numbers. Physical Review Letters, 2014, 113, 113904.	7.8	228
45	Weyl points and line nodes in gyroid photonic crystals. Nature Photonics, 2013, 7, 294-299.	31.4	560
46	Three-dimensional photonic crystals by large-area membrane stacking. Optics Letters, 2012, 37, 4726.	3.3	10
47	Electromagnetic modes localized at the edges of a three-dimensional photonic crystal. , 2012, , .		0
48	Waveguiding at the Edge of a Three-Dimensional Photonic Crystal. Physical Review Letters, 2012, 108, 243901.	7.8	36
49	Space group theory and Fourier space analysis of two-dimensional photonic crystal waveguides. Physical Review B, 2010, 81, .	3.2	48
50	120Î¼W peak output power from edge-emitting photonic crystal double-heterostructure nanocavity lasers. Applied Physics Letters, 2009, 94, 111101.	3.3	17
51	Modal Analysis of Photonic Crystal Double-Heterostructure Laser Cavities. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 892-900.	2.9	20
52	High-peak-power efficient edge-emitting photonic crystal nanocavity lasers. Optics Letters, 2009, 34, 2646.	3.3	8
53	Gain Compression and Thermal Analysis of a Sapphire-Bonded Photonic Crystal Microcavity Laser. IEEE Photonics Technology Letters, 2009, 21, 1166-1168.	2.5	8
54	Spectral properties of photonic crystal double heterostructure resonant cavities. Optics Express, 2008, 16, 9391.	3.4	18

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55	Double-heterostructure photonic crystal lasers with lower thresholds and higher slope efficiencies obtained by quantum well intermixing. Optics Express, 2008, 16, 17342.	3.4	18
56	Microdisk laser linewidth and spontaneous emission rate enhancement. , 2008, , .		1
57	Experimental characterization of the optical loss of sapphire-bonded photonic crystal laser cavities. IEEE Photonics Technology Letters, 2006, 18, 535-537.	2.5	24
58	Room Temperature InGaSb Quantum Well Microcylinder Lasers at 2 Î¼m Grown Monolithically on a Silicon Substrate. , 2006, , .		0