

Hongqiang Li

List of Publications by Year in descending order

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104
papers

4,207
citations

109264

35
h-index

114418

63
g-index

108
all docs

108
docs citations

108
times ranked

3196
citing authors

#	ARTICLE	IF	CITATIONS
1	Omnidirectional gap and defect mode of one-dimensional photonic crystals containing negative-index materials. Applied Physics Letters, 2003, 83, 5386-5388.	1.5	320
2	Properties of one-dimensional photonic crystals containing single-negative materials. Physical Review E, 2004, 69, 066607.	0.8	265
3	Broadband polarization transformation via enhanced asymmetric transmission through arrays of twisted complementary split-ring resonators. Applied Physics Letters, 2011, 99, .	1.5	235
4	Highly efficient beam steering with a transparent metasurface. Optics Express, 2013, 21, 10739.	1.7	155
5	Low-loss and high- Q planar metamaterial with toroidal moment. Physical Review B, 2013, 87, .	1.1	153
6	Directive emissions from subwavelength metamaterial-based cavities. Applied Physics Letters, 2005, 86, 101101.	1.5	150
7	Electrically Tunable Goos-Hänchen Effect with Graphene in the Terahertz Regime. Advanced Optical Materials, 2016, 4, 1824-1828.	3.6	144
8	Graphene Plasmonics: A Platform for 2D Optics. Advanced Optical Materials, 2019, 7, 1800537.	3.6	139
9	Photoexcited Graphene Metasurfaces: Significantly Enhanced and Tunable Magnetic Resonances. ACS Photonics, 2018, 5, 1612-1618.	3.2	123
10	Tunable terahertz coherent perfect absorption in a monolayer graphene. Optics Letters, 2014, 39, 6269.	1.7	116
11	Tunable mid-infrared coherent perfect absorption in a graphene meta-surface. Scientific Reports, 2015, 5, 13956.	1.6	115
12	Directly patterned substrate-free plasmonic nanograting structures with unusual Fano resonances. Light: Science and Applications, 2015, 4, e308-e308.	7.7	105
13	An electromagnetic modulator based on electrically controllable metamaterial analogue to electromagnetically induced transparency. Scientific Reports, 2017, 7, 40441.	1.6	104
14	The effect of an electric field on the thermomechanical damage of nodular defects in dielectric multilayer coatings irradiated by nanosecond laser pulses. Light: Science and Applications, 2013, 2, e80-e80.	7.7	96
15	Poly(dimethylsilylene)diacetylene-Guided ZIF-Based Heterostructures for Full Ku-Band Electromagnetic Wave Absorption. ACS Applied Materials & Interfaces, 2019, 11, 17706-17713.	4.0	94
16	An ultrathin twist-structure polarization transformer based on fish-scale metallic wires. Applied Physics Letters, 2011, 98, .	1.5	88
17	Directive emissions from subwavelength metamaterial-based cavities. , 0, , .		86
18	Plasmon induced transparency in a surface plasmon polariton waveguide with a comb line slot and rectangle cavity. Applied Physics Letters, 2014, 104, .	1.5	81

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19	Metallic Helix Array as a Broadband Wave Plate. <i>Physical Review Letters</i> , 2011, 107, 177401.	2.9	78
20	Tunneling modes of photonic heterostructures consisting of single-negative materials. <i>Applied Physics Letters</i> , 2006, 88, 211112.	1.5	76
21	Photonic band gap of a graphene-embedded quarter-wave stack. <i>Physical Review B</i> , 2013, 88, .	1.1	72
22	Hyperbolic Metamaterial Devices for Wavefront Manipulation. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800081.	4.4	69
23	Arrhythmia Classification Based on Multi-Domain Feature Extraction for an ECG Recognition System. <i>Sensors</i> , 2016, 16, 1744.	2.1	67
24	Achieving a high- Q response in metamaterials by manipulating the toroidal excitations. <i>Physical Review A</i> , 2018, 97, .	1.0	67
25	Experimental investigation of interface states in photonic crystal heterostructures. <i>Physical Review E</i> , 2008, 78, 026607.	0.8	64
26	Band-gap extension of disordered 1D binary photonic crystals. <i>Physica B: Condensed Matter</i> , 2000, 279, 164-167.	1.3	58
27	Theory and Experimental Realization of Negative Refraction in a Metallic Helix Array. <i>Physical Review Letters</i> , 2010, 105, 247401.	2.9	58
28	Enhancing infrared extinction and absorption in a monolayer graphene sheet by harvesting the electric dipolar mode of split ring resonators. <i>Optics Letters</i> , 2013, 38, 5410.	1.7	55
29	Subwavelength electromagnetic diode: One-way response of cascading nonlinear meta-atoms. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	50
30	Interconnected N/P co-doped carbon nanocage as high capacitance electrode material for energy storage devices. <i>Nano Research</i> , 2022, 15, 4068-4075.	5.8	43
31	Electromagnetic tunneling in a sandwich structure containing single negative media. <i>Physical Review E</i> , 2009, 79, 026601.	0.8	42
32	Compact high-Q filters based on one-dimensional photonic crystals containing single-negative materials. <i>Journal of Applied Physics</i> , 2005, 98, 013101.	1.1	41
33	A tunable metamaterial dependent on electric field at terahertz with barium strontium titanate thin film. <i>Applied Physics Letters</i> , 2014, 104, 042906.	1.5	39
34	Broadband plasmonic metamaterial absorber with fish-scale structure at visible frequencies. <i>Optical Materials Express</i> , 2016, 6, 2448.	1.6	38
35	All-dimensional subwavelength cavities made with metamaterials. <i>Applied Physics Letters</i> , 2006, 89, 104101.	1.5	36
36	Broadband Terahertz Absorption in Graphene-Embedded Photonic Crystals. <i>Plasmonics</i> , 2018, 13, 1153-1158.	1.8	36

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37	Planar optical lattice of TiO ₂ particles. <i>Optics Letters</i> , 1995, 20, 964.	1.7	35
38	Broadband negative refraction in stacked fishnet metamaterial. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	33
39	Anomalous reflection from hybrid metamaterial slab. <i>Optics Express</i> , 2010, 18, 12119.	1.7	30
40	Subwavelength optical localization with toroidal excitations in plasmonic and Mie metamaterials. <i>Information Materials</i> , 2021, 3, 577-597.	8.5	27
41	Negative reflection from metal/graphene plasmonic gratings. <i>Optics Letters</i> , 2016, 41, 348.	1.7	26
42	Zero-band gaps of photonic crystals consisting of positive and negative index materials in microstrip transmission lines. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 2579-2583.	1.3	25
43	Broadband transparency achieved with the stacked metallic multi-layers perforated with coaxial annular apertures. <i>Optics Express</i> , 2011, 19, 21425.	1.7	25
44	Extend the omnidirectional electronic gap of Thue-Morse aperiodic gapped graphene superlattices. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	23
45	Realizing Broadband Transparency via Manipulating the Hybrid Coupling Modes in Metasurfaces for High-Efficiency Metals. <i>Advanced Optical Materials</i> , 2019, 7, 1900016.	3.6	22
46	Disordered dielectric high reflectors with broadband from visible to infrared. <i>Applied Physics Letters</i> , 1999, 74, 3260-3262.	1.5	20
47	Multichanneled filter based on a branchy defect in microstrip photonic crystal. <i>Applied Physics Letters</i> , 2006, 88, 081106.	1.5	19
48	Direct observation of negative phase velocity and positive group velocity in time domain for composite right/left-handed transmission lines. <i>Journal of Applied Physics</i> , 2006, 100, 113503.	1.1	19
49	Broadband and high-efficiency vortex beam generator based on a hybrid helix array. <i>Optics Letters</i> , 2018, 43, 1538.	1.7	19
50	Active Control of Terahertz Toroidal Excitations in a Hybrid Metasurface with an Electrically Biased Silicon Layer. <i>Advanced Photonics Research</i> , 2021, 2, 2100103.	1.7	19
51	Nonlinear properties of meta-dimer comprised of coupled ring resonators. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 425303.	1.3	18
52	Highly localized mode in a pair structure made of epsilon-negative and mu-negative metamaterials. <i>Journal of Applied Physics</i> , 2008, 104, 013107.	1.1	16
53	Silicon Waveguide Integrated with Germanium Photodetector for a Photonic-Integrated FBG Interrogator. <i>Nanomaterials</i> , 2020, 10, 1683.	1.9	15
54	Optical Realization of Wave-Based Analog Computing with Metamaterials. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 141.	1.3	15

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55	Experimental observation of Rabi splitting in effective near-zero-index media in the microwave regime. Physical Review E, 2008, 78, 035601.	0.8	14
56	Subwavelength imaging with a fishnet flat lens. Physical Review B, 2013, 88, .	1.1	14
57	The dual-frequency zero-backward scattering realized in a hybrid metallo-dielectric nanoantenna. AIP Advances, 2019, 9, 075121.	0.6	14
58	Two-dimensional disordered photonic crystals with an average periodic lattice. Physical Review B, 1997, 56, 10734-10736.	1.1	13
59	The impact of local resonance on the enhanced transmission and dispersion of surface resonances. Photonics and Nanostructures - Fundamentals and Applications, 2010, 8, 94-101.	1.0	13
60	Stabilization of Photonic Microwave Generation in Vertical-Cavity Surface-Emitting Lasers With Optical Injection and Feedback. Journal of Lightwave Technology, 2018, 36, 4347-4353.	2.7	13
61	Spatially oriented plasmonic "nanograter"™ structures. Scientific Reports, 2016, 6, 28764.	1.6	12
62	Quasi-periodic planar metamaterial substrates. Applied Physics Letters, 2005, 86, 121108.	1.5	11
63	Spatially coherent surface resonance states derived from magnetic resonances. New Journal of Physics, 2010, 12, 093020.	1.2	10
64	Dielectric Properties of $\text{Ba}_{0.7}\text{Sr}_{0.3}\text{TiO}_3$ Film at Terahertz Measured by Metamaterials. Journal of the American Ceramic Society, 2012, 95, 1167-1169.	1.9	10
65	Experimental study of quasi-one-dimensional comb-like photonic crystals containing left-handed material. Optics Communications, 2008, 281, 3681-3685.	1.0	9
66	Classification of electrocardiogram signals with waveform morphological analysis and support vector machines. Medical and Biological Engineering and Computing, 2022, 60, 109-119.	1.6	9
67	Experimental investigation of mu negative of Bragg gap in one-dimensional composite right/left-handed transmission line. Journal of Applied Physics, 2007, 102, 033711.	1.1	8
68	A novel filter based on zeroth-order resonance by means of CRLH transmission line. Microwave and Optical Technology Letters, 2007, 49, 1015-1018.	0.9	8
69	Optical properties of subwavelength metallic-dielectric multilayers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 730-734.	0.9	8
70	Simplified description of asymmetric right-handed composite right/left-handed coupler in microstrip chip technology. Microwave and Optical Technology Letters, 2007, 49, 2063-2068.	0.9	7
71	Subwavelength electromagnetic switch: Bistable wave transmission of side-coupling nonlinear meta-atom. Optics Express, 2012, 20, 24813.	1.7	6
72	Directly Diode-Pumped Ho:YAG Ceramic Laser. IEEE Photonics Technology Letters, 2013, 25, 2153-2155.	1.3	6

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73	SOI Waveguide Bragg Grating Photonic Sensor for Human Body Temperature Measurement Based on Photonic Integrated Interrogator. <i>Nanomaterials</i> , 2022, 12, 29.	1.9	6
74	Fully Photonic Integrated Wearable Optical Interrogator. <i>ACS Photonics</i> , 2021, 8, 3607-3618.	3.2	5
75	Localization of light for dissipative and disordered one-dimensional systems. <i>Physical Review B</i> , 1996, 54, 11873-11875.	1.1	4
76	Broadband efficient vortex beam generation with metallic helix array. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	4
77	Control of phase, polarization, and amplitude based on geometric phase in a racemic helix array. <i>Photonics Research</i> , 2021, 9, 2265.	3.4	4
78	Codirectional coupler and power divider mixed microstrip and metamaterials with lumped-elements L-C. , 0, , .		3
79	Time-domain study of vortexlike interface mode in metamaterials. <i>Applied Physics Letters</i> , 2007, 91, 221907.	1.5	3
80	Piezoelectricity of cross-linked polypropylene films treated by hot-stretching. , 2009, , .		3
81	Collimation effect inside complete bandgap of electromagnetic surface resonance states on a metal plate perforated with a triangular array of air holes. <i>Optics Express</i> , 2012, 20, 25520.	1.7	3
82	Light Amplification with Low-Gain Material: Harvesting Harmonic Resonance Modes of Surface Plasmon Polaritons on a Magnetic Meta-Surface. <i>Plasmonics</i> , 2013, 8, 793-796.	1.8	3
83	Suppressed ferroelectric relaxor behavior of Mn ²⁺ -modified Ba _{0.3} Ti _{0.7} O ₃ relaxor ceramics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 788-794.	0.8	3
84	The Structural, Electronic, and Optical Properties of Ge/Si Quantum Wells: Lasing at a Wavelength of 1550 nm. <i>Nanomaterials</i> , 2020, 10, 1006.	1.9	2
85	Broadband Efficient Polarization-Pure Airy Beam Generation Based on Three-Layer Metasurface. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000621.	0.7	2
86	Multi-band artificial magnetic surface and its applications in antenna substrate. , 0, , .		1
87	A tunable one-dimension metamaterial. , 0, , .		1
88	Tunable Asymmetric Composite Right-/Left-Handed Transmission Line Directional Coupler Controlled by Applied Voltage. , 0, , .		1
89	The Bragg Gap on One-Dimensional Composite Right/Left-Handed Transmission Line. , 0, , .		1
90	Investigation on abnormal group velocities in 1D coaxial photonic crystals. <i>Science Bulletin</i> , 2006, 51, 1281-1286.	1.7	1

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91	Geometric Phase Based Circular Array for Multimode Vortex Beam Generation. Annalen Der Physik, 2019, 531, 1900367.	0.9	1
92	Broadband Efficient Dual-Polarization Airy Beam Generation with Reflective Metasurface. Physica Status Solidi (B): Basic Research, 2021, 258, 2100002.	0.7	1
93	Artificial Intelligence-Enabled ECG Algorithm Based on Improved Residual Network for Wearable ECG. Sensors, 2021, 21, 6043.	2.1	1
94	Design and fabrication of SU-8 polymer arrayed waveguide gratings based on flexible PDMS substrates. Applied Optics, 2022, 61, 2213.	0.9	1
95	Directive metamaterial antenna using high impedance surface. , 0, , .		0
96	Experimental Investigation of Tunable Defect Modes in the Comb-Like Photonic Crystals. , 0, , .		0
97	One-dimensional Photonic bandgap structures by periodically loaded rings on microstrip line. , 0, , .		0
98	High directive antenna using quasi-periodic planar metamaterial substrates. , 0, , .		0
99	Multi-Band Subwavelength Magnetic Reflectors Based on Spiral. , 0, , .		0
100	Planar Metamaterials and Applications in Directive Antennas. , 0, , .		0
101	<title>Multi-band reflectivity from metallic photonic crystals containing spiral-like patterns</title>. , 2006, 6029, 482.		0
102	Local Vortex Mode in Asymmetric Coupler Composed of Conventional Microstrip and Composite Right/Left-Handed Transmission Line with Lumped Elements. , 2007, , .		0
103	Inhomogeneous composite right-/left-handed transmission line. , 2008, , .		0
104	Frequency Shiftable Liquid Crystal Antennae with Different Feeding Techniques. , 2020, , .		0