Dan-Ran Li

List of Publications by Year
in descending order

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116 papers	4,068 citations	81743 39 h-index	128067 60 g-index
122 all docs	122 docs citations	122 times ranked	3448 citing authors

#	Article	IF	Citations
1	Visible and Online Detection of Nearâ€Infrared Optical Vortices via Nonlinear Photonic Crystals. Advanced Optical Materials, 2022, 10, 2101098.	3.6	11
2	Visible and Online Detection of Nearâ€Infrared Optical Vortices via Nonlinear Photonic Crystals (Advanced Optical Materials 1/2022). Advanced Optical Materials, 2022, 10, .	3.6	0
3	Dynamically Selective and Simultaneous Detection of Spin and Orbital Angular Momenta of Light with Thermoresponsive Self-Assembled Chiral Superstructures. ACS Photonics, 2022, 9, 1050-1057.	3.2	12
4	Simultaneous Realization of Dynamic and Hybrid Multiplexed Holography via Lightâ€Activated Chiral Superstructures. Laser and Photonics Reviews, 2022, 16, .	4.4	22
5	Creating Composite Vortex Beams with a Single Geometric Metasurface. Advanced Materials, 2022, 34, e2109714.	11.1	40
6	Photoâ€Actuated Chiral Smectic Superstructures. Advanced Optical Materials, 2022, 10, .	3.6	3
7	Pancharatnamâ€“Berry phase reversal via opposite-chirality-coexisted superstructures. Light: Science and Applications, 2022, 11, 135.	7.7	28
8	3D Engineering of Orbital Angular Momentum Beams via Liquidâ€Crystal Geometric Phase. Laser and Photonics Reviews, 2022, 16, .	4.4	12
9	Spinâ€Decoupled Transflective Spatial Light Modulations Enabled by a Piecewiseâ€Twisted Anisotropic Monolayer. Advanced Science, 2022, 9, .	5.6	17
10	Switchable Secondâ€Harmonic Generation of Airy Beam and Airy Vortex Beam. Advanced Optical Materials, 2021, 9, 2001776.	3.6	15
11	Optical-Relayed Entanglement Distribution Using Drones as Mobile Nodes. Physical Review Letters, 2021, 126, 020503.	2.9	57
12	Tunable band-pass optical vortex processor enabled by wash-out-refill chiral superstructures. Applied Physics Letters, 2021, 118, .	1.5	26
13	Selfâ€Assembled Wavy Optical Microfiber for Stretchable Wearable Sensor. Advanced Optical Materials, 2021, 9, 2002206.	3.6	34
14	Silica optical fiber integrated with two-dimensional materials: towards opto-electro-mechanical technology. Light: Science and Applications, 2021, 10, 78.	7.7	62
15	Selfâ€Assembled Wavy Optical Microfiber for Stretchable Wearable Sensor (Advanced Optical Materials) Tj ETQq1 1 0.784314 rgBT /Ov	3.6	1
16	Magnetic Field Sensing Based on Multimode Fiber Specklegrams. Journal of Lightwave Technology, 2021, 39, 3614-3619.	2.7	20
17	Nonlinear Wavy Metasurfaces with Topological Defects for Manipulating Orbital Angular Momentum States. ACS Photonics, 2021, 8, 1896-1902.	3.2	4
18	Programmable self-propelling actuators enabled by a dynamic helical medium. Science Advances, 2021, 7, .	4.7	21

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19	Single Nanowire Integrated Microfiber Devices. Results in Optics, 2021, , 100199.	0.9	0
20	Liquidâ€Crystalâ€Mediated Geometric Phase: From Transmissive to Broadband Reflective Planar Optics. Advanced Materials, 2020, 32, e1903665.	11.1	124
21	A Flexible Wireless Dielectric Sensor for Noninvasive Fluid Monitoring. Sensors, 2020, 20, 174.	2.1	10
22	Photoresponsive Materials: Photoprogrammable Mesogenic Soft Helical Architectures: A Promising Avenue toward Future Chiroâ€Optics (Adv. Mater. 41/2020). Advanced Materials, 2020, 32, 2070305.	11.1	1
23	Approaching Quantum-Limited Metrology with Imperfect Detectors by Using Weak-Value Amplification. Physical Review Letters, 2020, 125, 080501.	2.9	41
24	Spin-controlled massive channels of hybrid-order PoincarÃ© sphere beams. Applied Physics Letters, 2020, 117, .	1.5	11
25	Photoprogrammable Mesogenic Soft Helical Architectures: A Promising Avenue toward Future Chiroâ€Optics. Advanced Materials, 2020, 32, e1905318.	11.1	84
26	Reversible Onâ€“Off of Chirality and Anisotropy in Patterned Coexistence of Achiralâ€Anisotropic and Chiralâ€Isotropic Soft Materials. Advanced Optical Materials, 2020, 8, 2000155.	3.6	16
27	Smectic Defect Engineering Enabled by Programmable Photoalignment. Advanced Optical Materials, 2020, 8, 2000593.	3.6	14
28	Liquidâ€Crystalâ€Mediated Active Waveguides toward Programmable Integrated Optics. Advanced Optical Materials, 2020, 8, 1902033.	3.6	12
29	Photonic Entanglement Based on Nonlinear Metamaterials. Laser and Photonics Reviews, 2020, 14, 1900146.	4.4	19
30	Planar Terahertz Photonics Mediated by Liquid Crystal Polymers. Advanced Optical Materials, 2020, 8, 1902124.	3.6	31
31	Drone-based entanglement distribution towards mobile quantum networks. National Science Review, 2020, 7, 921-928.	4.6	61
32	Vector Vortex Beam Emitter Embedded in a Photonic Chip. Physical Review Letters, 2020, 124, 153601.	2.9	47
33	Heterostructures: Broadband Optical-Fiber-Compatible Photodetector Based on a Graphene-MoS2 -WS2 Heterostructure with a Synergetic Photogenerating Mechanism (Adv. Electron. Mater. 1/2019). Advanced Electronic Materials, 2019, 5, 1970005.	2.6	3
34	Liquid crystal enabled dynamic cloaking of terahertz Fano resonators. Applied Physics Letters, 2019, 114, .	1.5	45
35	Lightâ€Activated Liquid Crystalline Hierarchical Architecture Toward Photonics. Advanced Optical Materials, 2019, 7, 1900393.	3.6	29
36	Chirality invertible superstructure mediated active planar optics. Nature Communications, 2019, 10, 2518.	5.8	106

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37	Self-Assembled Asymmetric Microlenses for Four-Dimensional Visual Imaging. ACS Nano, 2019, 13, 13709-13715.	7.3	39
38	Optical Microfiber Sensors: Sensing Mechanisms, and Recent Advances. Journal of Lightwave Technology, 2019, 37, 2577-2589.	2.7	60
39	Broadband Opticalâ€Fiberâ€Compatible Photodetector Based on a Grapheneâ€MoS₂â€WS₂ Heterostructure with a Synergetic Photogenerating Mechanism. Advanced Electronic Materials, 2019, 5, 1800562.	2.6	53
40	Tunable and enhanced light emission in hybrid WS2-optical-fiber-nanowire structures. Light: Science and Applications, 2019, 8, 8.	7.7	51
41	Ethanol Gas Sensor Based on a Hybrid Polymethyl Methacrylateâ€“Silica Microfiber Coupler. Journal of Lightwave Technology, 2018, 36, 2031-2036.	2.7	26
42	Lightâ€Driven Reversible Transformation between Selfâ€Organized Simple Cubic Lattice and Helical Superstructure Enabled by a Molecular Switch Functionalized Nanocage. Advanced Materials, 2018, 30, e1800237.	11.1	57
43	Digitalizing Selfâ€Assembled Chiral Superstructures for Optical Vortex Processing. Advanced Materials, 2018, 30, 1705865.	11.1	131
44	Vortex Airy beams directly generated via liquid crystal q-Airy-plates. Applied Physics Letters, 2018, 112, .	1.5	47
45	Adaptive Materials: Light-Driven Reversible Transformation between Self-Organized Simple Cubic Lattice and Helical Superstructure Enabled by a Molecular Switch Functionalized Nanocage (Adv.) Tj ETQq1 1 0.784314 rgBT /Overloc	11.1	
46	Perfect Higher-Order PoincarÃ© Sphere Beams from Digitalized Geometric Phases. Physical Review Applied, 2018, 10, .	1.5	31
47	Quasi-Phase-Matching Method Based on Coupling Compensation for Surface Second-Harmonic Generation in Optical Fiber Nanowire Coupler. ACS Photonics, 2018, 5, 3916-3922.	3.2	5
48	Generation of second-harmonic Ince-Gaussian beams. Applied Physics Letters, 2018, 113, .	1.5	6
49	Photon-phonon Interaction in a Microfiber Induced by Optical and Electrostrictive Forces. Scientific Reports, 2017, 7, 41849.	1.6	3
50	Smectic Layer Origami via Preprogrammed Photoalignment. Advanced Materials, 2017, 29, 1606671.	11.1	42
51	Superstructures: Smectic Layer Origami via Preprogrammed Photoalignment (Adv. Mater. 15/2017). Advanced Materials, 2017, 29, .	11.1	0
52	Optical field control via liquid crystal photoalignment. Molecular Crystals and Liquid Crystals, 2017, 644, 3-11.	0.4	6
53	Digitalized Geometric Phases for Parallel Optical Spin and Orbital Angular Momentum Encoding. ACS Photonics, 2017, 4, 1333-1338.	3.2	93
54	Towards an all-in fiber photodetector by directly bonding few-layer molybdenum disulfide to a fiber facet. Nanoscale, 2017, 9, 3424-3428.	2.8	22

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55	Lightâ€Patterned Crystallographic Direction of a Selfâ€Organized 3D Soft Photonic Crystal. Advanced Materials, 2017, 29, 1703165.	11.1	120
56	Manipulation of Nonlinear Optical Properties of Graphene Bonded Fiber Devices by Thermally Engineering Fermiâ€“Dirac Distribution. Advanced Optical Materials, 2017, 5, 1700630.	3.6	9
57	Going beyond the limit of an LCDâ€™s color gamut. Light: Science and Applications, 2017, 6, e17043-e17043.	7.7	157
58	Orbital angular momentum (OAM) conversion and multicasting using N-core supermode fiber. Scientific Reports, 2017, 7, 1062.	1.6	8
59	Tailoring the photon spin via lightâ€“matter interaction in liquid-crystal-based twisting structures. Npj Quantum Materials, 2017, 2, .	1.8	7
60	Generation of strong cylindrical vector pulses via stimulated Brillouin amplification. Applied Physics Letters, 2017, 110, .	1.5	16
61	Teflon-functionalized microfiber coupler with a good thermal stability. , 2017, , .		1
62	Periodic micro-structures in optical microfibers induced by Plateau-Rayleigh instability and its applications. Optics Express, 2017, 25, 4326.	1.7	14
63	Light-Driven Rotation and Pitch Tuning of Self-Organized Cholesteric Gratings Formed in a Semi-Free Film. Polymers, 2017, 9, 295.	2.0	22
64	Fiber-Optic Point-Based Sensor Using Specklegram Measurement. Sensors, 2017, 17, 2429.	2.1	14
65	Generating, Separating and Polarizing Terahertz Vortex Beams via Liquid Crystals with Gradient-Rotation Directors. Crystals, 2017, 7, 314.	1.0	16
66	Synthesis of single-crystal low-loss LiB3O5 nanowire and its optical properties. Scientific Reports, 2016, 6, 39389.	1.6	3
67	A novel mode-locked fiber laser based on graphene with microvoid. , 2016, , .		0
68	Ferroelectric domain inversion and its stability in lithium niobate thin film on insulator with different thicknesses. AIP Advances, 2016, 6, .	0.6	28
69	Generation of Equal-Energy Orbital Angular Momentum Beams via Photopatterned Liquid Crystals. Physical Review Applied, 2016, 5, .	1.5	55
70	Meta-q-plate for complex beam shaping. Scientific Reports, 2016, 6, 25528.	1.6	86
71	A high-sensitivity microfluidic flowmeter based on microfiber coupler. , 2016, , .		0
72	Dual-valley transmission spectrum based on periodically poled lithium niobate with a structure defect. , 2016, , .		0

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73	Mechanical Modulation of a Hybrid Grapheneâ€“Microfiber Structure. Advanced Optical Materials, 2016, 4, 853-857.	3.6	16
74	Beam shaping via photopatterned liquid crystals. Liquid Crystals, 2016, 43, 2051-2061.	0.9	42
75	A Fiber Laser Using Graphene-Integrated 3-D Microfiber Coil. IEEE Photonics Journal, 2016, 8, 1-7.	1.0	3
76	Polarization-controllable Airy beams generated via a photoaligned director-variant liquid crystal mask. Scientific Reports, 2015, 5, 17484.	1.6	55
77	Rationally Designed Dynamic Superstructures Enabled by Photoaligning Cholesteric Liquid Crystals. Advanced Optical Materials, 2015, 3, 1691-1696.	3.6	58
78	Miniature optical fiber current sensor based on a graphene membrane. Laser and Photonics Reviews, 2015, 9, 517-522.	4.4	34
79	Broadband tunable liquid crystal terahertz waveplates driven with porous graphene electrodes. Light: Science and Applications, 2015, 4, e253-e253.	7.7	148
80	Miniaturized stereo fiber devices based on the wrapon-a-rod technology. , 2015, , .		0
81	An all-optical modulator based on a stereo grapheneâ€“microfiber structure. Light: Science and Applications, 2015, 4, e360-e360.	7.7	124
82	A Compact Sagnac Loop Based on a Microfiber Coupler for Twist Sensing. IEEE Photonics Technology Letters, 2015, 27, 2579-2582.	1.3	30
83	Generation of N00N State With Orbital Angular Momentum in a Twisted Nonlinear Photonic Crystal. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 225-230.	1.9	20
84	Differential twin receiving fiber-optic magnetic field and electric current sensor utilizing a microfiber coupler. Optics Express, 2015, 23, 9407.	1.7	30
85	Optical electrical current sensor utilizing a graphene-microfiber-integrated coil resonator. Applied Physics Letters, 2015, 107, .	1.5	49
86	Microfiber-coupler-assisted control of wavelength tuning for Q-switched fiber laser with few-layer molybdenum disulfide nanoplates. Optics Letters, 2015, 40, 3576.	1.7	37
87	A miniature reflective micro-force sensor based on a microfiber coupler. Optics Express, 2014, 22, 2443.	1.7	53
88	Multifunctional optical nanofiber polarization devices with 3D geometry. Optics Express, 2014, 22, 17890.	1.7	16
89	34.4: Invited Paper: THz Devices based on High Birefringence Liquid Crystals. Digest of Technical Papers SID International Symposium, 2014, 45, 491-494.	0.1	2
90	An All-Fiber Reflective Hydrogen Sensor Based on a Photonic Crystal Fiber In-Line Interferometer. IEEE Sensors Journal, 2014, 14, 1133-1136.	2.4	26

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91	Tailoring entanglement through domain engineering in a lithium niobate waveguide. Scientific Reports, 2014, 4, 4812.	1.6	13
92	Quantum entanglement based on surface phonon polaritons in condensed matter systems. AIP Advances, 2013, 3, .	0.6	7
93	Metallic Grating on a D-Shaped Fiber for Refractive Index Sensing. IEEE Photonics Journal, 2013, 5, 4800706-4800706.	1.0	28
94	Lead silicate fiber-based, refractive index-independent temperature sensor. Journal of Modern Optics, 2013, 60, 851-853.	0.6	3
95	Fast switchable grating based on orthogonal photo alignments of ferroelectric liquid crystals. Applied Physics Letters, 2012, 101, .	1.5	85
96	Polarization independent liquid crystal gratings based on orthogonal photoalignments. Applied Physics Letters, 2012, 100, 111116.	1.5	68
97	A microfiber-based highly birefringent device. , 2012, , .		0
98	Optical frequency comb generation by cascaded second-order nonlinear effect in a quasi-phase matched micro-ring resonator. , 2012, , .		0
99	A Heterodyne Optical Fiber Current Sensor Based on a Nanowire-Grid In-Line Polarizer. IEEE Photonics Journal, 2012, 4, 1288-1294.	1.0	8
100	Lowâ€temperatureâ€applicable polymerâ€stabilized blueâ€phase liquid crystal and its Kerr effect. Journal of the Society for Information Display, 2012, 20, 326-332.	0.8	13
101	Polarizationâ€independent blueâ€phase liquidâ€crystal gratings driven by vertical electric field. Journal of the Society for Information Display, 2012, 20, 341-346.	0.8	45
102	Microfiber-Based Bragg Gratings for Sensing Applications: A Review. Sensors, 2012, 12, 8861-8876.	2.1	117
103	Ultra-Sensitive Refractive Index Sensor With Slightly Tapered Photonic Crystal Fiber. IEEE Photonics Technology Letters, 2012, 24, 1771-1774.	1.3	41
104	Surface Plasmon Interferometer Based on Wedge Metal Waveguide and Its Sensing Applications. IEEE Photonics Journal, 2012, 4, 291-299.	1.0	9
105	Miniaturized Metal-Dielectric-Hybrid Fiber Tip Grating for Refractive Index Sensing. IEEE Photonics Technology Letters, 2011, 23, 1712-1714.	1.3	32
106	Demonstration of a compact temperature sensor based on first-order Bragg grating in a tapered fiber probe. Optics Express, 2011, 19, 18452.	1.7	120
107	Teflon-coated microfiber resonator with weak temperature dependence. Optics Express, 2011, 19, 22923.	1.7	44
108	Highly Birefringent Slot-Microfiber. IEEE Photonics Technology Letters, 2011, 23, 1034-1036.	1.3	23

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109	Self-polarizing terahertz liquid crystal phase shifter. AIP Advances, 2011, 1, .	0.6	81
110	An Optical Fiber Tip Micrograting Thermometer. IEEE Photonics Journal, 2011, 3, 810-814.	1.0	43
111	Dispersion Study of Optical Nanowire Microcoil Resonators. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1102-1106.	1.9	18
112	Measurement of Surface Plasmon Polariton Enhanced Goosâ€“Hanchen Shift Based on Grating and Liquid Crystal Technologies. IEEE Photonics Technology Letters, 2011, 23, 1829-1831.	1.3	5
113	Fiber tip high temperature sensor. , 2010, , .		0
114	Miniaturized fiber taper reflective interferometer for high temperature measurement. Optics Express, 2010, 18, 14245.	1.7	167
115	Microfiber-probe-based ultrasmall interferometric sensor. Optics Letters, 2010, 35, 2308.	1.7	79
116	A Liquid Crystal Tunable Wavelength-Interleaved Isolator With Flat Spectral Response. Journal of Lightwave Technology, 2010, 28, 2890-2896.	2.7	1