

# Siyuan Yu

## List of Publications by Year in descending order

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docs citations

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times ranked

5778  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flat Optical Frequency Comb Generator Based on Integrated Lithium Niobate Modulators. Journal of Lightwave Technology, 2022, 40, 339-345.	4.6	23
2	SDM transmission of orbital angular momentum mode channels over a multi-ring-core fibre. Nanophotonics, 2022, 11, 873-884.	6.0	12
3	Compact substrate-removed thin-film lithium niobate electro-optic modulator featuring polarization-insensitive operation. Optics Letters, 2022, 47, 1818.	3.3	10
4	Soliton frequency comb generation in CMOS-compatible silicon nitride microresonators. Photonics Research, 2022, 10, 1290.	7.0	17
5	High-performance polarization management devices based on thin-film lithium niobate. Light: Science and Applications, 2022, 11, 93.	16.6	48
6	Tailoring solid-state single-photon sources with stimulated emissions. Nature Nanotechnology, 2022, 17, 470-476.	31.5	27
7	Thin-Film Lithium Niobate DP-IQ Modulator for Driverless 130 Gbaud 64 QAM Transmission. , 2022, , .		4
8	1120-channel OAM-MDM-WDM transmission over a 100-km single-span ring-core fiber using low-complexity 4A—4 MIMO equalization. Optics Express, 2022, 30, 18199.	3.4	10
9	Self-assembled InAs/GaAs single quantum dots with suppressed InGaAs wetting layer states and low excitonic fine structure splitting for quantum memory. Nanophotonics, 2022, 11, 3093-3100.	6.0	2
10	Photonics with Thin Film Lithium Niobate. Advanced Photonics, 2022, 4, .	11.8	0
11	Ultra-broadband and low-loss edge coupler for highly efficient second harmonic generation in thin-film lithium niobate. , 2022, 1, .		16
12	1-Pbps orbital angular momentum fibre-optic transmission. Light: Science and Applications, 2022, 11, .	16.6	53
13	High-Speed Modulator With Integrated Termination Resistor Based on Hybrid Silicon and Lithium Niobate Platform. Journal of Lightwave Technology, 2021, 39, 1108-1115.	4.6	17
14	Tunable Orbital Angular Momentum Converter Based on Integrated Multiplexers. Journal of Lightwave Technology, 2021, 39, 91-97.	4.6	13
15	Integrated thin film lithium niobate Fabry—Perot modulator [Invited]. Chinese Optics Letters, 2021, 19, 060003.	2.9	15
16	High-performance Bias-drift-free Modulators Based on Heterogeneous Silicon and Lithium Niobate Platform. , 2021, , .		0
17	Accurate Mode-Coupling Characterization of Low-Crosstalk Ring-Core Fibers Using Integral Calculation Based Swept-Wavelength Interferometry Measurement. Journal of Lightwave Technology, 2021, 39, 6479-6486.	4.6	8
18	Design Optimization of GaAs/AlGaAs Lasers Epitaxially Grown on Si Substrates with Threading Dislocation Density in the Range of $\sim 10^6 \text{cm}^{-2}$ . , 2021, , .		0

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19	Wafer-Scale Epitaxial Low Density InAs/GaAs Quantum Dot for Single Photon Emitter in Three-Inch Substrate. <i>Nanomaterials</i> , 2021, 11, 930.	4.1	7
20	Hybrid Silicon and Lithium Niobate Modulator. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-12.	2.9	17
21	10 OAM $\lambda$ – 16 Wavelengths Two-Layer Switch Based on an Integrated Mode Multiplexer for 19.2 Tbps Data Traffic. <i>Journal of Lightwave Technology</i> , 2021, 39, 3217-3224.	4.6	9
22	Low-complexity sparse absolute-term based nonlinear equalizer for C-band IM/DD systems. <i>Optics Express</i> , 2021, 29, 21891.	3.4	11
23	Folded Heterogeneous Silicon and Lithium Niobate Mach-Zehnder Modulators with Low Drive Voltage. <i>Micromachines</i> , 2021, 12, 823.	2.9	18
24	Dual-resonance enhanced quantum light-matter interactions in deterministically coupled quantum-dot-micropillars. <i>Light: Science and Applications</i> , 2021, 10, 158.	16.6	12
25	Low-noise Kerr frequency comb generation with low temperature deuterated silicon nitride waveguides. <i>Optics Express</i> , 2021, 29, 29557.	3.4	12
26	Efficient four-way vertical coupler array for chip-scale space-division-multiplexing applications. <i>Optics Letters</i> , 2021, 46, 4324.	3.3	5
27	Reconfigurable multi-component micromachines driven by optoelectronic tweezers. <i>Nature Communications</i> , 2021, 12, 5349.	12.8	41
28	Neural Network Based Perturbation-Location Fiber Specklegram Sensing System Towards Applications With Limited Number of Training Samples. <i>Journal of Lightwave Technology</i> , 2021, 39, 6315-6326.	4.6	21
29	Mode-Dependent Characterization of Rayleigh Backscattering in Ring-Core Fibers. , 2021, , .		0
30	Electrically pumped widely tunable O-band hybrid lithium niobite/III-V laser. <i>Optics Letters</i> , 2021, 46, 5413.	3.3	28
31	360-Channel WDM-MDM Transmission over 25-km Ring-Core Fiber with Low-Complexity Modular 4 $\lambda$ –4 MIMO Equalization. , 2021, , .		5
32	High-Performance Polarization Splitter-Rotator Based on Lithium Niobate-on-Insulator Platform. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 1423-1426.	2.5	16
33	Spectral self-imaging of optical orbital angular momentum modes. <i>APL Photonics</i> , 2021, 6, .	5.7	7
34	Utilizing accelerating plane-wave beams for bendable light communications. <i>Optics Express</i> , 2021, 29, 41911.	3.4	1
35	High-performance coherent optical modulators based on thin-film lithium niobate platform. <i>Nature Communications</i> , 2020, 11, 3911.	12.8	245
36	Nonlinearity-Aware Adaptive Bit and Power Loading DMT Transmission Over Low-Crosstalk Ring-Core Fiber With Mode Group Multiplexing. <i>Journal of Lightwave Technology</i> , 2020, 38, 5875-5882.	4.6	13

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37	Self-learning Routing for Optical Networks. Lecture Notes in Computer Science, 2020, , 467-478.	1.3	6
38	Morphological engineering of aluminum droplet etched nanoholes for symmetric GaAs quantum dot epitaxy. Nanotechnology, 2020, 31, 495701.	2.6	4
39	Arbitrary Multiplication and Division of the Orbital Angular Momentum of Light. Physical Review Letters, 2020, 124, 213901.	7.8	35
40	Low fiber-to-fiber loss, large bandwidth and low drive voltage lithium niobate on insulator modulators. , 2020, , .		3
41	Integrated Lithium Niobate Modulator and Frequency Comb Generator Based on Fabry-Perot Resonators. , 2020, , .		4
42	Transmissive Multi-plane Light Conversion for Demultiplexing Orbital Angular Momentum Modes. , 2020, , .		4
43	Sorting full angular momentum states with Pancharatnam-Berry metasurfaces based on spiral transformation. Optics Express, 2020, 28, 16342.	3.4	23
44	Low-loss and broadband fiber-to-chip coupler by 3D fabrication on a silicon photonic platform. Optics Letters, 2020, 45, 1236.	3.3	15
45	Highly efficient thermo-optic tunable micro-ring resonator based on an LNOI platform. Optics Letters, 2020, 45, 6318.	3.3	38
46	Highly efficient thermo-optic tunable micro-ring resonator based on an LNOI platform: publisher's note. Optics Letters, 2020, 45, 6723.	3.3	3
47	Compact and high-performance vortex mode sorter for multi-dimensional multiplexed fiber communication systems. Optica, 2020, 7, 254.	9.3	95
48	Mode-division multiplexed transmission of wavelength-division multiplexing signals over a 100-km single-span orbital angular momentum fiber. Photonics Research, 2020, 8, 1236.	7.0	110
49	Bias-drift-free Mach-Zehnder modulators based on a heterogeneous silicon and lithium niobate platform. Photonics Research, 2020, 8, 1958.	7.0	36
50	Hybrid Silicon and Lithium Niobate Mach-Zehnder Modulators with High Bandwidth Operating at C-band and O-band. , 2020, , .		4
51	Nonlinearity-Aware OAM Mode-Group Multiplexed Transmission over 1-km Ring-Core Fiber with Low HighOrder Inter-Mode-Group Crosstalk. , 2020, , .		0
52	Arrayed Vortex Mode Demultiplexer Based on Spiral Transformation for Dense Space Division Multiplexing. , 2020, , .		3
53	Ultra-Low Inter-Mode-Group Crosstalk Ring-Core Fiber Optimized Using Neural Networks and Genetic Algorithm. , 2020, , .		2
54	A Mode Division Multiplexing Scheme Utilizing Accelerating Beams Constructed in Mixed Domain. , 2020, , .		0

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55	A super-resolution planar lens with binary phase modulation using particle swarm optimization algorithm. , 2020, , .		1
56	Image Signal Transmission Passing Over a Barrier enabled by Optical Accelerating Beams. , 2020, , .		0
57	An integrated silicon photonic chip platform for continuous-variable quantum key distribution. Nature Photonics, 2019, 13, 839-842.	31.4	196
58	Towards optimal single-photon sources from polarized microcavities. Nature Photonics, 2019, 13, 770-775.	31.4	290
59	The optoelectronic microrobot: A versatile toolbox for micromanipulation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14823-14828.	7.1	79
60	Decision-Feedback Frequency-Domain Volterra Nonlinear Equalizer for IM/DD OFDM Long-Reach PON. Journal of Lightwave Technology, 2019, 37, 3333-3342.	4.6	14
61	Highly uniform and symmetric epitaxial InAs quantum dots embedded inside Indium droplet etched nanoholes. Nanotechnology, 2019, 30, 485001.	2.6	4
62	Resilient Free-Space Image Transmission with Helical Beams. Physical Review Applied, 2019, 12, .	3.8	6
63	Michelson interferometer modulator based on hybrid silicon and lithium niobate platform. APL Photonics, 2019, 4, .	5.7	35
64	High-performance hybrid silicon and lithium niobate Mach-Zehnder modulators for 100 Gbit/s and beyond. Nature Photonics, 2019, 13, 359-364.	31.4	691
65	MIMO-free WDM-MDM transmission over 100-KM single-span ring-core fibre. , 2019, , .		2
66	Design of Nonparaxial Accelerating Beams Based on Wigner Distribution Function. , 2019, , .		0
67	Inverse Design of Orbital Angular Momentum Mode Demultiplexer by Combining Wavefront Matching Method and Gradient Descent Algorithm. , 2019, , .		0
68	Four-Wave Mixing Parametric Oscillation in Deuterated Silicon Nitride Microresonators Prepared by Low-Temperature (100 Å°C) PECVD Platform. , 2019, , .		0
69	Fast Polarization-Insensitive Optical Switch Based on Hybrid Silicon and Lithium Niobate Platform. IEEE Photonics Technology Letters, 2019, 31, 1838-1841.	2.5	12
70	Integrating Graphene/MoS <sub>2</sub> Heterostructure with SiN <sub>x</sub> Waveguide for Visible Light Detection at 532-nm Wavelength. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800338.	2.4	13
71	High modulation efficiency lithium niobate Michelson interferometer modulator. Optics Express, 2019, 27, 18731.	3.4	35
72	All-dielectric metasurface grating for on-chip multi-channel orbital angular momentum generation and detection. Optics Express, 2019, 27, 18794.	3.4	16

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73	A novel ring-core fiber supporting MIMO-free 50km transmission over high-order OAM modes. , 2019, , .		9
74	SiN <sub>x</sub> Si interlayer coupler using a gradient index metamaterial. Optics Letters, 2019, 44, 1230.	3.3	10
75	80-Channel WDM-MDM Transmission over 50-km Ring-Core Fiber Using a Compact OAM DEMUX and Modular 4 $\times$ 4 MIMO Equalization. , 2019, , .		16
76	Low-Loss Ring-Core Fiber Supporting 4 Mode Groups. , 2019, , .		3
77	A compact mode sorter for demultiplexing vortex light beams. , 2019, , .		0
78	Enhanced amplified spontaneous emission from conjugated light-emitting polymer integrated with silicon nitride grating structures. OSA Continuum, 2019, 2, 2875.	1.8	0
79	Spin-orbit interaction of light induced by transverse spin angular momentum engineering. Nature Communications, 2018, 9, 926.	12.8	92
80	Preface to the special issue on "Optical Communications Exploiting the Space Domain". Optics Communications, 2018, 408, 1-2.	2.1	2
81	Self-bending Image Transmission with Helical Beams. , 2018, , .		0
82	Frequency-Domain Nonlinear Estimation and Equalization Using Intra-Symbol Averaging for 40-Gb/s/wavelength LR-PON. , 2018, , .		0
83	The Orbital Angular Momentum of Light for Ultra-High Capacity Data Centers. , 2018, , .		0
84	Patterned Optoelectronic Tweezers: A New Scheme for Selecting, Moving, and Storing Dielectric Particles and Cells. Small, 2018, 14, e1803342.	10.0	41
85	Scalable mode division multiplexed transmission over a 10-km ring-core fiber using high-order orbital angular momentum modes. Optics Express, 2018, 26, 594.	3.4	99
86	Orbital-angular-momentum mode-group multiplexed transmission over a graded-index ring-core fiber based on receive diversity and maximal ratio combining. Optics Express, 2018, 26, 4243.	3.4	52
87	Orbital angular momentum modes emission from a silicon photonic integrated device for km-scale data-carrying fiber transmission. Optics Express, 2018, 26, 15471.	3.4	24
88	Obstacle evasion in free-space optical communications utilizing Airy beams. Optics Letters, 2018, 43, 1203.	3.3	41
89	On-chip switchable radially and azimuthally polarized vortex beam generation. Optics Letters, 2018, 43, 1263.	3.3	28
90	Monolithic quantum-dot distributed feedback laser array on silicon. Optica, 2018, 5, 528.	9.3	85

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91	18-km low-crosstalk OAM+WDM transmission with 224 individual channels enabled by a ring-core fiber with large high-order mode group separation. Optics Letters, 2018, 43, 1890.	3.3	111
92	Bright and pure single-photons from quantum dots in micropillar cavities under up-converted excitation. Science Bulletin, 2018, 63, 739-742.	9.0	7
93	An InP-based vortex beam emitter with monolithically integrated laser. Nature Communications, 2018, 9, 2652.	12.8	40
94	Spiral Transformation for High-Resolution and Efficient Sorting of Optical Vortex Modes. Physical Review Letters, 2018, 120, 193904.	7.8	143
95	Mode Division Multiplexing Based on Ring Core Optical Fibers. IEEE Journal of Quantum Electronics, 2018, 54, 1-18.	1.9	32
96	Compact high-efficiency vortex beam emitter based on a silicon photonics micro-ring. Optics Letters, 2018, 43, 1319.	3.3	19
97	Low-loss two-dimensional silicon photonic grating coupler with a backside metal mirror. Optics Letters, 2018, 43, 474.	3.3	56
98	High-efficiency hybrid amorphous silicon grating couplers for sub-micron-sized lithium niobate waveguides. Optics Express, 2018, 26, 29651.	3.4	45
99	Orbital angular momentum vector modes (de)multiplexer based on multimode micro-ring. Optics Express, 2018, 26, 29895.	3.4	27
100	Construction, characteristics, and constraints of accelerating beams based on caustic design. Optics Express, 2018, 26, 32728.	3.4	16
101	Low-noise 13- $\mu$ m InAs/GaAs quantum dot laser monolithically grown on silicon. Photonics Research, 2018, 6, 1062.	7.0	35
102	Demonstration of Chip-to-Chip Communication Based on Ultra-Compact Orbital Angular Momentum (de)Multiplexers. , 2018, , .		4
103	Low Complexity Frequency-Domain Nonlinear Equalization for 40-Gb/s/wavelength Long-Reach PON. , 2018, , .		7
104	4 OAM x 4 WDM Optical Switching Based on an Innovative Integrated Tunable OAM Multiplexer. , 2018, , .		12
105	First Demonstration of Orbital Angular Momentum (OAM) Distributed Raman Amplifier over 18-km OAM Fiber with Data-Carrying OAM Multiplexing and Wavelength-Division Multiplexing. , 2018, , .		10
106	High Quality Factor Deuterated Silicon Nitride (SiN:D) Microring Resonators. , 2018, , .		4
107	High-resolution and compact vortex mode sorters based on a spiral transformation. , 2018, , .		0
108	Applicability of the Caustic Method in Designing Various Accelerating Beams. , 2018, , .		0

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109	Hybrid polymer/SiNx enhanced gain light-emitter. , 2018, , .		1
110	Strategies and resources of mode-division-multiplexed optical fibre transmission based on LP and orbital angular momentum modes. , 2017, , .		0
111	Design and optimization of optical modulators based on graphene-on-silicon nitride microring resonators. Journal of Optics (United Kingdom), 2017, 19, 045801.	2.2	15
112	Tailoring accelerating beams in phase space. Physical Review A, 2017, 95, .	2.5	27
113	Orbital Angular Momentum Divider of Light. IEEE Photonics Journal, 2017, 9, 1-8.	2.0	7
114	Large optical Stark shifts in single quantum dots coupled to core-shell GaAs/AlGaAs nanowires. Nanoscale, 2017, 9, 5483-5488.	5.6	1
115	Measuring the Orbital Angular Momentum State of Light by Coordinate Transformation. IEEE Photonics Technology Letters, 2017, 29, 86-89.	2.5	9
116	A deterministic quantum dot micropillar single photon source with >65% extraction efficiency based on fluorescence imaging method. Scientific Reports, 2017, 7, 13986.	3.3	20
117	Precise characterization of self-catalyzed III-V nanowire heterostructures via optical second harmonic generation. Nanotechnology, 2017, 28, 395701.	2.6	5
118	High-efficiency broadband second harmonic generation in single hexagonal GaAs nanowire. Scientific Reports, 2017, 7, 2166.	3.3	16
119	Cascaded metasurface structures. , 2017, , .		1
120	Experimental observation of optical bistability in an integrated vortex beam emitter. , 2017, , .		0
121	Fabrication-friendly high-efficiency silicon nitride grating coupler. , 2017, , .		0
122	Orbital angular momentum assisted spin-directional coupling. , 2017, , .		0
123	Chirality and directional emission of a SiN <sub>x</sub> -based microring resonator with position controllable scatters. , 2017, , .		0
124	Scalable Orbital Angular Momentum Mode-Division-Multiplexed Transmission over 10-km Graded-Index Ring-Core Fiber. , 2017, , .		1
125	A graded index ring-core fiber supporting 22 OAM states. , 2017, , .		7
126	Demonstration of diamond microlens structures by a three-dimensional (3D) dual-mask method. Optics Express, 2017, 25, 15572.	3.4	11



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127	Hybrid light-emitting polymer/SiN <sub>x</sub> platform for photonic integration. Optics Express, 2017, 25, 33527.	3.4	3
128	High-efficiency wideband SiN <sub>x</sub> -on-SOI grating coupler with low fabrication complexity. Optics Letters, 2017, 42, 3391.	3.3	24
129	High-directional vortex beam emitter based on Archimedean spiral adiabatic waveguides. Optics Letters, 2017, 42, 975.	3.3	7
130	High Quality Factor Dry-etched Lithium Niobate Ridge Waveguide Micro-ring Resonators. , 2017, , .		0
131	Tunable optical true time delay lines based on SiN <sub>x</sub> arrayed waveguide grating and spirals. , 2017, , .		2
132	Characterizing a 14×14 OAM mode transfer matrix of a ring-core fiber based on quadrature phase-shift interference. Optics Letters, 2017, 42, 1257.	3.3	9
133	Highly adjustable helical beam: design and propagation characteristics (Invited Paper). Chinese Optics Letters, 2017, 15, 030011-30015.	2.9	9
134	Random Degenerate-Mode-Mixing Independent OAM Mode-Group (De)multiplexing over a Graded-Index Ring-Core Fiber. , 2017, , .		0
135	Asymmetric backscattering of a SiN <sub>x</sub> microring resonator with a Mie scatterer. , 2017, , .		0
136	Optical communications over obstacles by applying two-dimensional ballistic-trajectory Airy beams. , 2017, , .		1
137	Low-loss Two-dimensional Grating Coupler on SOI Platform with Bonded Metal Mirror. , 2017, , .		2
138	Generation of vectorial vortex beams with switchable radial and azimuthal polarizations. , 2017, , .		0
139	3.36-Tbit/s OAM and Wavelength Multiplexed Transmission over an Inverse-Parabolic Graded Index Fiber. , 2017, , .		6
140	Direct generation of orbital angular momentum beams by integrating all-dielectric metasurface to vertical-cavity surface-emitting laser. , 2017, , .		3
141	Graphene/MoS <sub>2</sub> heterostructure photodetector integrated with silicon nitride micro-ring resonators at visible wavelengths. , 2017, , .		2
142	Orbital Angular Momentum Mode Multiplexer Based on Bilayer Concentric Micro-Ring Resonator. , 2017, , .		3
143	Monolithic integrated optical vortex sorter based on cascaded metasurface structures. , 2017, , .		1
144	An asymmetrical SiN <sub>x</sub> -based polarization beam splitter at 810 nm. , 2017, , .		0

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145	An integrated orbital angular momentum quantum dot single photon emitter. , 2017, , .		0
146	Integrated optical vortex beam receivers. Optics Express, 2016, 24, 28529.	3.4	14
147	Optical vortices and vector beams. Photonics Research, 2016, 4, OVB1.	7.0	3
148	Demonstration of Orbital Angular Momentum (OAM) Modes Emission from a Silicon Photonic Integrated Device for 20 Gbit/s QPSK Carrying Data Transmission in Few-Mode Fiber. , 2016, , .		0
149	Revolutionizing optical fiber transmission and networking using the Orbital Angular Momentum of light. , 2016, , .		1
150	Dividing orbital angular momentum of light. , 2016, , .		0
151	Manipulating optical vortices using integrated photonics. Frontiers of Optoelectronics, 2016, 9, 194-205.	3.7	5
152	Performance evaluation of analog signal transmission in an integrated optical vortex emitter to 36-km few-mode fiber system. Optics Letters, 2016, 41, 1969.	3.3	29
153	Ultra-low temperature silicon nitride photonic integration platform. Optics Express, 2016, 24, 1865.	3.4	50
154	Generation of photonic orbital angular momentum superposition states using vortex beam emitters with superimposed gratings. Optics Express, 2016, 24, 3168.	3.4	39
155	Photonic integrated devices for exploiting the orbital angular momentum of light in optical communications. Frontiers of Optoelectronics, 2016, 9, 518-525.	3.7	3
156	Winding light beams along elliptical helical trajectories. Physical Review A, 2016, 94, .	2.5	28
157	Highly directional vortex beam emitters based on Archimedean spiral adiabatic waveguides. , 2016, , .		0
158	A coaxially integrated photonic orbital angular momentum beam multiplexer. , 2016, , .		1
159	Generalised Hermite-Gaussian beams and mode transformations. Journal of Optics (United Kingdom), 2016, 18, 055001.	2.2	19
160	Realizing topological edge states in a silicon nitride microring-based photonic integrated circuit. Optics Letters, 2016, 41, 4791.	3.3	12
161	Generation of photonic orbital angular momentum superposition states using vortex beam emitters with superimposed gratings. , 2016, , .		0
162	Graphene-on-silicon nitride microring resonators with high modulation depth. , 2016, , .		1

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163	Orbital Angular Momentum Mode Multiplexer Based on Multimode Micro-Ring Resonator with Angular Gratings. , 2016, , .		1
164	Characterizing a 10 $\times$ 10 OAM propagation matrix of few-mode fiber by a dual-interference pattern method. , 2016, , .		0
165	Hybrid integrated velocity matched travelling-wave InP/InGaAs photodetectors with silicon nitride waveguides. , 2016, , .		0
166	Experimental Performance Evaluation of Analog Signal Transmission System with Photonic Integrated Optical Vortex Emitter and 3.6 km Few-Mode Fiber Link. , 2016, , .		1
167	Integrated Orbital Angular Momentum Emitters Based on Silicon Nitride Photonic Platform. , 2016, , .		0
168	InP-based Monolithic Tunable Narrow Linewidth Optical Radio Frequency Signal Generator with Direct Modulation. , 2016, , .		0
169	On-chip Tunable Cylindrical Vector Beams Emitter. , 2016, , .		0
170	Monolithic InP-based fast optical switch module for optical networks of the future. , 2015, , .		3
171	Pattern manipulation via on-chip phase modulation between orbital angular momentum beams. Applied Physics Letters, 2015, 107, 051102.	3.3	9
172	Demonstration of few mode fiber transmission link seeded by a silicon photonic integrated optical vortex emitter. , 2015, , .		1
173	Orbital angular momentum vertical-cavity surface-emitting lasers. Optica, 2015, 2, 547.	9.3	108
174	Photonic integrated devices for exploiting the orbital angular momentum (OAM) of light in optical communications. , 2015, , .		1
175	Photonic demultiplexer for radio frequency orbital-angular-momentum signals. , 2015, , .		0
176	Self-imaging of orbital angular momentum (OAM) modes in rectangular multimode interference waveguides. Optics Express, 2015, 23, 5014.	3.4	12
177	High index contrast integrated optics in the cylindrical coordinate. , 2015, , .		1
178	Orbital angular momentum mode-demultiplexing scheme with partial angular receiving aperture. Optics Express, 2015, 23, 12251.	3.4	57
179	Orbital angular momentum (OAM) modes routing in a ring fiber based directional coupler. Optics Communications, 2015, 350, 160-164.	2.1	8
180	Potentials and challenges of using orbital angular momentum communications in optical interconnects. Optics Express, 2015, 23, 3075.	3.4	110

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181	Integrated Optical Vortex Vertical-Cavity Surface-Emitting Lasers. , 2015, , .		1
182	Experimental Demonstration of Radio Frequency Orbital Angular Momentum Multiplexed Communication System Using Microwave Photonic Demultiplexer. , 2015, , .		0
183	Investigation on the intensity noise characteristics of the semiconductor ring laser. Chinese Physics B, 2014, 23, 024203.	1.4	2
184	Optical generation of tunable and narrow linewidth radio frequency signal based on mutual locking between integrated semiconductor lasers. Photonics Research, 2014, 2, B11.	7.0	9
185	Recent Progress in Integrated Photonic Orbital Angular Momentum Devices. , 2014, , .		0
186	Measuring the angular emission of optical vortex beams from integrated devices. , 2014, , .		0
187	Spin and orbital angular momentum and their conversion in cylindrical vector vortices. Optics Letters, 2014, 39, 4435.	3.3	37
188	Fast electrical switching of orbital angular momentum modes using ultra-compact integrated vortex emitters. Nature Communications, 2014, 5, 4856.	12.8	149
189	Actively reconfigurable compact vortex beam emitters. , 2014, , .		0
190	On-chip Electrical Modulation of Phase Shift between Optical Vortices with Opposite Topological Charge. , 2014, , .		1
191	Fast Switching of Optical Vortex Beam Mode Orders Generated Using a Fully Integrated SOI Device. , 2014, , .		0
192	Coupled Mode Analysis of Angular Grating-Based Optical Vortex Beam Emitters. , 2014, , .		1
193	Direct modulation frequency response of semiconductor ring laser. , 2013, , .		0
194	A Numerical Study of Cavity Enhanced Inter-Modal Four Wave Mixing in Injection-Locked Semiconductor Ring Lasers. IEEE Journal of Quantum Electronics, 2013, 49, 862-869.	1.9	1
195	Reflection and transmission of optical vortex beams at a dielectric interface. , 2013, , .		0
196	A numerical study of UTC-PD structures with beryllium as the p-dopant. , 2013, , .		0
197	Tunable and narrow linewidth RF signal generation based on dual-injection semiconductor ring laser. , 2013, , .		0
198	A scheme to expand the delay-bandwidth product in the resonator-based delay lines by optical OFDM technique. Optics Communications, 2013, 305, 240-246.	2.1	0

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199	Integrated photonic orbital angular momentum devices and systems: Potentials and challenges. Science China Technological Sciences, 2013, 56, 579-585.	4.0	3
200	A numerical study of ring fibre for high capacity orbital angular momentum mode transmission. , 2013, , .		1
201	Theoretical model for angular grating-based integrated optical vortex beam emitters. Optics Letters, 2013, 38, 1343.	3.3	49
202	Fast Speed Semiconductor Ring Lasers Using Optical Injection Locking. Acta Physica Polonica A, 2013, 123, 180-182.	0.5	3
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