

# Yongxiong Ren

## List of Publications by Year in Descending Order

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**Version:** 2024-04-10

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44 papers	5,682 citations	16 h-index	50 g-index
50 ext. papers	7,365 ext. citations	5.8 avg, IF	5.12 L-index

#	Paper	IF	Citations
44	Multi-Ring-Air-Core Fiber Supporting Numerous Radially Fundamental OAM Modes. <i>Journal of Lightwave Technology</i> , <b>2022</b> , 1-1	4	3
43	Highly Dispersive Germanium-Doped Coupled Ring-Core Fiber for Vortex Modes. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 1-1	4	2
42	Perspectives on advances in high-capacity, free-space communications using multiplexing of orbital-angular-momentum beams. <i>APL Photonics</i> , <b>2021</b> , 6, 030901	5.2	20
41	Air-Core Ring Fiber Guiding >400 Radially Fundamental OAM Modes Across S + C + L Bands. <i>IEEE Access</i> , <b>2021</b> , 9, 75617-75625	3.5	1
40	Hollow Ring-Core Photonic Crystal Fiber With >500 OAM Modes Over 360-nm Communications Bandwidth. <i>IEEE Access</i> , <b>2021</b> , 9, 66999-67005	3.5	2
39	Non-zero dispersion-shifted ring fiber for the orbital angular momentum mode. <i>Optics Express</i> , <b>2021</b> , 29, 25428-25438	3.3	1
38	. <i>IEEE Access</i> , <b>2021</b> , 9, 107804-107811	3.5	1
37	Air-Core Ring Fiber With >1000 Radially Fundamental OAM Modes Across O, E, S, C, and L Bands. <i>IEEE Access</i> , <b>2020</b> , 8, 68280-68287	3.5	12
36	Three-Octave Supercontinuum Generation Using SiO <sub>2</sub> Cladded Si <sub>3</sub> N <sub>4</sub> Slot Waveguide With All-Normal Dispersion. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 3431-3438	4	7
35	Hollow Ring-Core Hybrid Photonic Crystal Fiber Supporting >500 OAM Modes Across O, E, S, C, L Bands <b>2020</b> ,		1
34	Polarization Beam Splitter Based on SiN/SiO Horizontal Slot Waveguides for On-Chip High-Power Applications. <i>Sensors</i> , <b>2020</b> , 20,	3.8	3
33	Highly dispersive coupled ring-core fiber for orbital angular momentum modes. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 191101	3.4	10
32	. <i>IEEE Access</i> , <b>2020</b> , 8, 96543-96549	3.5	5
31	Two-Octave Supercontinuum Generation of High-Order OAM Modes in Air-Core As <sub>2</sub> S <sub>3</sub> Ring Fiber. <i>IEEE Access</i> , <b>2020</b> , 8, 114135-114142	3.5	5
30	. <i>IEEE Access</i> , <b>2020</b> , 8, 172086-172095	3.5	
29	1.6-Octave Coherent OAM Supercontinuum Generation in As <sub>2</sub> S <sub>3</sub> Photonic Crystal Fiber. <i>IEEE Access</i> , <b>2020</b> , 8, 168177-168185	3.5	5
28	Eye Diagram Measurement-Based Joint Modulation Format, OSNR, ROF, and Skew Monitoring of Coherent Channel Using Deep Learning. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 5907-5913	4	9

27	Single-End Adaptive Optics Compensation for Emulated Turbulence in a Bi-Directional 10-Mbit/s per Channel Free-Space Quantum Communication Link Using Orbital-Angular-Momentum Encoding. <i>Research</i> , <b>2019</b> , 2019, 8326701	7.8	15
26	Single-End Adaptive Optics Compensation for Emulated Turbulence in a Bi-Directional 10-Mbit/s per Channel Free-Space Quantum Communication Link Using Orbital-Angular-Momentum Encoding. <i>Research</i> , <b>2019</b> , 2019, 1-10	7.8	0
25	Switchable detector array scheme to reduce the effect of single-photon detector's deadtime in a multi-bit/photon quantum link. <i>Optics Communications</i> , <b>2019</b> , 441, 132-132	2	
24	Recent advances in high-capacity free-space optical and radio-frequency communications using orbital angular momentum multiplexing. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2017</b> , 375,	3	85
23	Line-of-Sight Millimeter-Wave Communications Using Orbital Angular Momentum Multiplexing Combined With Conventional Spatial Multiplexing. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 3151-3161	9.6	90
22	High-Capacity Free-Space Optical Communications Between a Ground Transmitter and a Ground Receiver via a UAV Using Multiplexing of Multiple Orbital-Angular-Momentum Beams. <i>Scientific Reports</i> , <b>2017</b> , 7, 17427	4.9	53
21	Using a complex optical orbital-angular-momentum spectrum to measure object parameters. <i>Optics Letters</i> , <b>2017</b> , 42, 4482-4485	3	44
20	Orbital Angular Momentum-based Space Division Multiplexing for High-capacity Underwater Optical Communications. <i>Scientific Reports</i> , <b>2016</b> , 6, 33306	4.9	99
19	OFDM over mm-Wave OAM Channels in a Multipath Environment with Intersymbol Interference <b>2016</b> ,		12
18	Mode-Division-Multiplexing of Multiple Bessel-Gaussian Beams Carrying Orbital-Angular-Momentum for Obstruction-Tolerant Free-Space Optical and Millimetre-Wave Communication Links. <i>Scientific Reports</i> , <b>2016</b> , 6, 22082	4.9	49
17	Multipath Effects in Millimetre-Wave Wireless Communication using Orbital Angular Momentum Multiplexing. <i>Scientific Reports</i> , <b>2016</b> , 6, 33482	4.9	22
16	Invited Article: Division and multiplication of the state order for data-carrying orbital angular momentum beams. <i>APL Photonics</i> , <b>2016</b> , 1, 090802	5.2	5
15	Demonstration of Tunable Steering and Multiplexing of Two 28 GHz Data Carrying Orbital Angular Momentum Beams Using Antenna Array. <i>Scientific Reports</i> , <b>2016</b> , 6, 37078	4.9	15
14	32-Gbit/s 60-GHz millimeter-wave wireless communication using orbital angular momentum and polarization multiplexing <b>2016</b> ,		17
13	Experimental demonstration of 16-Gbit/s millimeter-wave communications link using thin metamaterial plates to generate data-carrying orbital-angular-momentum beams <b>2015</b> ,		11
12	Free-space optical communications using orbital-angular-momentum multiplexing combined with MIMO-based spatial multiplexing. <i>Optics Letters</i> , <b>2015</b> , 40, 4210-3	3	51
11	Mode division multiplexing using an orbital angular momentum mode sorter and MIMO-DSP over a graded-index few-mode optical fibre. <i>Scientific Reports</i> , <b>2015</b> , 5, 14931	4.9	173
10	Dividing and multiplying the mode order for orbital-angular-momentum beams <b>2015</b> ,		2

9	Experimental measurements of multipath-induced intra- and inter-channel crosstalk effects in a millimeter-wave communications link using orbital-angular-momentum multiplexing <b>2015</b> ,	11
8	Experimental demonstration of 16 Gbit/s millimeter-wave communications using MIMO processing of 2 OAM modes on each of two transmitter/receiver antenna apertures <b>2014</b> ,	12
7	Performance metrics and design parameters for an FSO communications link based on multiplexing of multiple orbital-angular-momentum beams <b>2014</b> ,	3
6	Demonstration of 8-mode 32-Gbit/s millimeter-wave free-space communication link using 4 orbital-angular-momentum modes on 2 polarizations <b>2014</b> ,	6
5	High-capacity millimetre-wave communications with orbital angular momentum multiplexing. <i>Nature Communications</i> , <b>2014</b> , 5, 4876	17.4 623
4	Terabit-scale orbital angular momentum mode division multiplexing in fibers. <i>Science</i> , <b>2013</b> , 340, 1545-833.3	1601
3	. <i>IEEE Photonics Journal</i> , <b>2012</b> , 4, 535-543	1.8 127
2	Terabit free-space data transmission employing orbital angular momentum multiplexing. <i>Nature Photonics</i> , <b>2012</b> , 6, 488-496	33.9 2390
1	Octave-spanning supercontinuum generation of vortices in an As <sub>2</sub> S <sub>3</sub> ring photonic crystal fiber. <i>Optics Letters</i> , <b>2012</b> , 37, 1889-91	3 76