## Xianbin Yu

## List of Publications by Year in descending order

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279798 289244 1,857 112 23 40 citations h-index g-index papers 114 114 114 1093 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	100 Gbit/s hybrid optical fiber-wireless link in the W-band (75–110 GHz). Optics Express, 2011, 19, 24944.	3.4	260
2	0.4 THz Photonic-Wireless Link With 106 Gb/s Single Channel Bitrate. Journal of Lightwave Technology, 2018, 36, 610-616.	4.6	113
3	100 Gbit/s THz Photonic Wireless Transmission in the 350-GHz Band With Extended Reach. IEEE Photonics Technology Letters, 2018, 30, 1064-1067.	2.5	72
4	Distribution of photonically generated 5 Gbits/s impulse radio ultrawideband signals over fiber. Optics Letters, 2011, 36, 810.	3.3	68
5	25 Gbit/s QPSK Hybrid Fiber-Wireless Transmission in the W-Band (75–110 GHz) With Remote Antenna Unit for In-Building Wireless Networks. IEEE Photonics Journal, 2012, 4, 691-698.	2.0	67
6	$2~\mbox{\ensuremath{\tilde{A}}}-300~\mbox{\ensuremath{\text{Gbit/s}}}$ Line Rate PS-64QAM-OFDM THz Photonic-Wireless Transmission. Journal of Lightwave Technology, 2020, 38, 4715-4721.	4.6	61
7	26.8-m THz wireless transmission of probabilistic shaping 16-QAM-OFDM signals. APL Photonics, 2020, 5,	5.7	58
8	120 Gb/s Multi-Channel THz Wireless Transmission and THz Receiver Performance Analysis. IEEE Photonics Technology Letters, 2017, 29, 310-313.	2.5	53
9	400-GHz Wireless Transmission of 60-Gb/s Nyquist-QPSK Signals Using UTC-PD and Heterodyne Mixer. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 765-770.	3.1	49
10	Beyond 100 Gb/s Optoelectronic Terahertz Communications: Key Technologies and Directions. IEEE Communications Magazine, 2020, 58, 34-40.	6.1	49
11	Freeâ€Space Communications Enabled by Quantum Cascade Lasers. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000407.	1.8	48
12	Converged Wireline and Wireless Access Over a 78-km Deployed Fiber Long-Reach WDM PON. IEEE Photonics Technology Letters, 2009, 21, 1274-1276.	2.5	45
13	THz photonic wireless links with 16-QAM modulation in the 375-450 GHz band. Optics Express, 2016, 24, 23777.	3.4	44
14	Fiber Wireless Transmission of 8.3-Gb/s/ch QPSK-OFDM Signals in 75–110-GHz Band. IEEE Photonics Technology Letters, 2012, 24, 383-385.	2.5	41
15	A photonic ultra-wideband pulse generator based on relaxation oscillations of a semiconductor laser. Optics Express, 2009, 17, 9680.	3.4	35
16	Experimental Demonstration of All-Optical 781.25-Mb/s Binary Phase-Coded UWB Signal Generation and Transmission. IEEE Photonics Technology Letters, 2009, 21, 1235-1237.	2.5	35
17	A Unified System With Integrated Generation of High-Speed Communication and High-Resolution Sensing Signals Based on THz Photonics. Journal of Lightwave Technology, 2018, 36, 4549-4556.	4.6	35
18	Bridging the Terahertz Gap: Photonics-Assisted Free-Space Communications From the Submillimeter-Wave to the Mid-Infrared. Journal of Lightwave Technology, 2022, 40, 3149-3162.	4.6	33

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19	Bidirectional Radio-Over-Fiber System With Phase-Modulation Downlink and RF Oscillator-Free Uplink Using a Reflective SOA. IEEE Photonics Technology Letters, 2008, 20, 2180-2182.	2.5	32
20	Tbit/s Multi-Dimensional Multiplexing THz-Over-Fiber for 6G Wireless Communication. Journal of Lightwave Technology, 2021, 39, 5783-5790.	4.6	31
21	3.125 Gb/s Impulse Radio Ultra-Wideband Photonic Generation and Distribution Over a 50 km Fiber With Wireless Transmission. IEEE Microwave and Wireless Components Letters, 2010, 20, 127-129.	3.2	27
22	60 Gbit/s 400 GHz wireless transmission. , 2015, , .		26
23	A WDM-PON-Compatible System for Simultaneous Distribution of Gigabit Baseband and Wireless Ultrawideband Services With Flexible Bandwidth Allocation. IEEE Photonics Journal, 2011, 3, 13-19.	2.0	25
24	Performance Analysis of Plane Spiral OAM Mode-Group Based MIMO System. IEEE Communications Letters, 2020, 24, 1414-1418.	4.1	24
25	Integrated Dual-DFB Laser for 408 GHz Carrier Generation Enabling 131 Gbit/s Wireless Transmission over 10.7 Meters. , 2019, , .		22
26	Experimental generation of linearly chirped 350  GHz band pulses with a bandwidth beyond 60 â€%Optics Letters, 2017, 42, 5242.	‰GHz.	21
27	Performance of a 60-GHz DCM-OFDM and BPSK-Impulse Ultra-Wideband System with Radio-Over-Fiber and Wireless Transmission Employing a Directly-Modulated VCSEL. IEEE Journal on Selected Areas in Communications, 2011, 29, 1295-1303.	14.0	20
28	THz Wireless Transmission Systems Based on Photonic Generation of Highly Pure Beat-Notes. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	20
29	Non-Line-of-Sight Channel Performance of Plane Spiral Orbital Angular Momentum MIMO Systems. IEEE Access, 2017, 5, 25377-25384.	4.2	20
30	Photonic Ultra-Wideband 781.25-Mb/s Signal Generation and Transmission Incorporating Digital Signal Processing Detection. IEEE Photonics Technology Letters, 2009, 21, 1060-1062.	2.5	18
31	Single Channel 106 Gbit/s 16QAM Wireless Transmission in the 0.4 THz Band. , 2017, , .		18
32	Frequency stability optimization of an OEO using phase-locked-loop and self-injection-locking. Optics Communications, 2017, 386, 27-30.	2.1	17
33	Converged Wireless and Wireline Access System Based on Optical Phase Modulation for Both Radio-Over-Fiber and Baseband Signals. IEEE Photonics Technology Letters, 2008, 20, 1814-1816.	2.5	16
34	Ultra-Broadband Photonic Harmonic Mixer Based on Optical Comb Generation. IEEE Photonics Technology Letters, 2012, 24, 16-18.	2.5	16
35	System Wide Implementation of Photonically Generated Impulse Radio Ultra-Wideband for Gigabit Fiber-Wireless Access. Journal of Lightwave Technology, 2013, 31, 264-275.	4.6	16
36	Dual-Band THz Photonic Pulses Enabling Synthetic mm-Scale Range Resolution. IEEE Photonics Technology Letters, 2018, 30, 1760-1763.	2.5	16

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37	A Compact Pattern Reconfiguration Antenna Based on Multimode Plane Spiral OA. IEEE Transactions on Antennas and Propagation, 2021, 69, 1168-1172.	5.1	16
38	Direct Modulation and Free-Space Transmissions of up to 6 Gbps Multilevel Signals With a 4.65-\$mu\$m Quantum Cascade Laser at Room Temperature. Journal of Lightwave Technology, 2022, 40, 2370-2377.	4.6	16
39	Coherently demodulated orbital angular momentum shift keying system using a CNN-based image identifier as demodulator. Optics Communications, 2019, 435, 367-373.	2.1	14
40	Integration of Optically Generated Impulse Radio UWB Signals Into Baseband WDM-PON. IEEE Photonics Technology Letters, 2011, 23, 474-476.	2.5	13
41	Photonic Generation and De-Chirping of Broadband THz Linear-Frequency-Modulated Signals. IEEE Photonics Technology Letters, 2019, 31, 881-884.	2.5	13
42	Direct Generation of OAM Mode-Group and Its Application in LoS-MIMO System. IEEE Communications Letters, 2020, 24, 2628-2631.	4.1	13
43	The prospects of ultra-broadband THz wireless communications. , 2014, , .		12
44	Structure Radio Beam Construction in Azimuthal Domain. IEEE Access, 2020, 8, 9395-9402.	4.2	12
45	A Comparison of Electrical and Photonic Pulse Generation for IR-UWB on Fiber Links. IEEE Photonics Technology Letters, 2010, 22, 263-265.	2.5	11
46	Nonlinearity-aware optoelectronic terahertz discrete multitone signal transmission with a zero-bias diode. Optics Letters, 2020, 45, 5045.	3.3	10
47	Photonic microwave transversal filter employing a fiber-Bragg-grating-based multiple resonator. Microwave and Optical Technology Letters, 2005, 44, 369-371.	1.4	9
48	Generation of plane spiral orbital angular momentum microwave with ring dielectric resonator antenna. , 2017, , .		9
49	Low Probability of Intercept Communication Based on Structured Radio Beams Using Machine Learning. IEEE Access, 2019, 7, 169946-169952.	4.2	9
50	Feedforward Neural Network-Based EVM Estimation: Impairment Tolerance in Coherent Optical Systems. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-10.	2.9	8
51	Range extension and channel capacity increase in impulse-radio ultra-wideband communications. Tsinghua Science and Technology, 2010, 15, 169-173.	6.1	7
52	Bit-Error-Rate Performance Analysis of Self-Heterodyne Detected Radio-Over-Fiber Links Using Phase and Intensity Modulation. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 3229-3236.	4.6	7
53	Hybrid optical fibre-wireless links at the 75 $\pm$ x2013;110 GHz band supporting 100 Gbps transmission capacities. , 2011, , .		6
54	Photonic Vector Signal Generation Based on OEO and Optical Coherent QPSK Modulation. IEEE Photonics Technology Letters, 2018, 30, 1711-1714.	2.5	6

#	Article	IF	CITATIONS
55	Photonic generation of terahertz dual-chirp waveforms ranging from 364 to 392â€GHz. Optics Express, 2021, 29, 19240.	3.4	6
56	Numerical Study of Parallel Optoelectronic Reservoir Computing to Enhance Nonlinear Channel Equalization. Photonics, 2021, 8, 406.	2.0	6
57	Experimental Study of Plane Spiral OAM Mode-Group Based MIMO Communications. IEEE Transactions on Antennas and Propagation, 2022, 70, 641-653.	5.1	6
58	Robust Photonic Terahertz Vector Imaging Scheme Using an Optical Frequency Comb. Journal of Lightwave Technology, 2022, 40, 2717-2723.	4.6	6
59	A Two-Dimensional LiNbO3 Photonic E-Field Sensor Using Inclined Dipole Antennas. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2203-2206.	4.0	5
60	Generating wideband orbital angular momentum beams using helical antenna., 2017,,.		5
61	Modulation Fading in Temporal Talbot Effect. IEEE Photonics Technology Letters, 2018, 30, 1376-1379.	2.5	5
62	60 Gbit/s PAM-4 wireless transmission in the 310ÂGHz band with nonlinearity tolerant signal processing. Optics Communications, 2021, 492, 126988.	2.1	5
63	Mode Conversion and Transfer of Orbital Angular Momentum Between Hermite-Gaussian and Laguerre-Gaussian Beams. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	5
64	Erratum to "Ultra-Broadband Photonic Harmonic Mixer Based on Optical Comb Generation―[Jan 1 2012 16-18]. IEEE Photonics Technology Letters, 2012, 24, 620-620.	2.5	4
65	Uplink transmission in the Wâ€band (75–110 GHz) for hybrid optical fiberâ€wireless access networks. Microwave and Optical Technology Letters, 2013, 55, 1033-1036.	1.4	4
66	A Novel Demodulation Scheme of Fiber-Optic Interferometric Sensor Based on FM SSB Signal. IEEE Photonics Technology Letters, 2019, 31, 607-610.	2.5	4
67	Channel modeling and performance analysis of fixed terahertz Earth-satellite links in the low- and mid-latitude regions. Optical Engineering, 2021, 60, .	1.0	4
68	Channel measurements for a optical fiber-wireless transmission system in the 75& $\pm$ x2013; 110 GHz band., 2011,,.		3
69	Experimental analysis of THz receiver performance in 80 Gbit/s communication system. , 2016, , .		3
70	A Novel Scheme of Microwave Generation Based on Heterodyne Phase Locking of an OEO. IEEE Photonics Technology Letters, 2016, 28, 2637-2640.	2.5	3
71	Beyond 100 Gbit/s wireless connectivity enabled by THz photonics. , 2017, , .		3
72	Transformation of OAM Waves to Plane Spiral OAM Waves Based on Gradient-Index Meta-Surface. , 2018, , .		3

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73	Up to 6 Gbps Mid-Infrared Free-Space Transmission with a Directly Modulated Quantum Cascade Laser. , 2021, , .		3
74	A Non-Uniform Travelling-Wave Current Source Model for Designing OAM Antenna: Theory, Analysis and Application. IEEE Access, 2022, 10, 47499-47508.	4.2	3
75	Plane Spiral OAM Mode-Group Orthogonal Multiplexing Communication Using Partial Arc Sampling Receiving Scheme. IEEE Transactions on Antennas and Propagation, 2022, 70, 10998-11008.	5.1	3
76	Improvement in Sensing Accuracy of an OFDM-Based W-Band System. Journal of Communications and Information Networks, 2022, 7, 37-47.	5.2	3
77	Optically envelope detected QAM and QPSK RF modulated signals in hybrid wireless-fiber systems. Microwave and Optical Technology Letters, 2009, 51, 864-866.	1.4	2
78	Photonic heterodyne generation of phase-coded terahertz signals. Optics Communications, 2021, 499, 127253.	2.1	2
79	A terahertz photonic imaging radar system based on inverse synthetic aperture technique. , 2021, , .		2
80	Photonic Generation of Barker-code Phase-Coded Terahertz Signals. , 2021, , .		2
81	Long Distance Broadband Fiber Optical Beamforming Over 120 km. IEEE Access, 2021, 9, 152182-152187.	4.2	2
82	A W-Band Communication and Sensing Convergence System Enabled by Single OFDM Waveform. Micromachines, 2022, 13, 312.	2.9	2
83	Experimental Investigation on the Effect of Optical Source on Photonic Microwave Filter Performance. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 763-770.	0.6	1
84	1Gbps impulse radio ultrawideband multi-hop system employing a single mode fiber repeater. , 2009, , .		1
85	Generalized Tensor Analysis Model for Multi-Subcarrier Analog Optical Systems. Journal of Lightwave Technology, 2011, 29, 3144-3155.	4.6	1
86	Simplified fiber-wireless distribution of HD video in passive and active W-band close proximity terminals. , $2012$ , , .		1
87	Photonic generation of linear frequency modulated terahertz pulses in the 350 GHz band with beyond 40 GHz bandwidth., 2017,,.		1
88	Corrections to "Modulation Fading in Temporal Talbot Effect―[Aug 1, 2018 1376-1379]. IEEE Photonics Technology Letters, 2018, 30, 1994-1994.	2.5	1
89	Chip Based THz Emitter for Ultra-high Speed THz Wireless Communication. , 2019, , .		1
90	Signal Frequency Chirp of Photonic Time-Stretch System Due to Nonlinear Dispersion. IEEE Photonics Technology Letters, 2019, 31, 443-446.	2.5	1

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91	300ÂGHz vector imaging system based on self-mixing detection. , 2020, , .		1
92	Aggregated 1.059 Tbit/s photonic-wireless transmission at 350 GHz over 10 meters., 2021,,.		1
93	Human recognition with the optoelectronic reservoir-computing-based micro-Doppler radar signal processing. Applied Optics, 2022, 61, 5782.	1.8	1
94	A flexible and incoherent microwave photonic filter with a flat-top passband. Microwave and Optical Technology Letters, 2005, 46, 132-134.	1.4	0
95	Combined transmission of baseband NRZ-DQPSK and phase modulated radio-over-fibre. , 2008, , .		0
96	Photonic implementation of 4-QAM/QPSK electrical modulation at millimeter-wave frequency. , 2008, , .		0
97	A robust optical phase modulated 60 GHz RoF WDM system. , 2010, , .		0
98	Experimental evaluation of high speed impulse radio UWB interference on WiMAX narrowband systems. , 2010, , .		0
99	A spectral efficient PolMux-QPSK-RoF system with CMA-based blind estimation of a 2 & amp; #x00D7; 2 MIMO wireless channel., 2011,,.		0
100	A novel reconfigurable ultra-broadband millimeter-wave photonic harmonic down-converter., 2011,,.		0
101	Experimental characterization of extremely broadband THz impulse radio communication systems. , 2015, , .		0
102	Impact of finite extinction ratio of modulator on photonic time-stretch system., 2017,,.		0
103	Ultra-broadband THz photonic wireless transmission. , 2018, , .		0
104	Experimental Demonstration of 3.9 mm Range Resolution Enabled by Synthetic Linearly Chirped THz Photonic Pulses. , $2018,  ,  .$		0
105	Enhanced Accessibility of 350 GHz 100 Gbit/s 16-QAM Photonic Wireless Link., 2018,,.		0
106	Photonic radiofrequency receiver utilizing a phase modulator and a tunable single sideband optoelectronic oscillator. Microwave and Optical Technology Letters, 2019, 61, 2196-2201.	1.4	0
107	Experimental Generation and De-chirping of Photonic THz Linearly Chirped Signals with Large Time-bandwidth Product. , 2019, , .		0
108	Improved Doubly-Selective Radio Channel Tracking for Modern Wireless Systems. , 2020, , .		0

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109	Erratum to "A Compact Pattern Reconfiguration Antenna Based on Multimode Plane Spiral OAM―[Feb 21 1168-1172]. IEEE Transactions on Antennas and Propagation, 2021, 69, 3628-3628.	5.1	0
110	Sensing Accuracy Improvement of an OFDM W-band System. , 2021, , .		0
111	Local property study for arbitrary polarised OAM beam. IET Microwaves, Antennas and Propagation, 2019, 13, 1846-1853.	1.4	0
112	Analysis of THz Earth-Satellite Link Capacity in the Mid-Latitude Regions. , 2021, , .		0