

# Xiupu Zhang

## List of Publications by Year in descending order

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89  
papers

1,492  
citations

361413  
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89  
all docs

89  
docs citations

89  
times ranked

940  
citing authors

#	ARTICLE	IF	CITATIONS
1	InAs/InP quantum dash buried heterostructure mode-locked laser for high capacity fiber-wireless integrated 5G new radio fronthaul systems. Optics Express, 2021, 29, 16164.	3.4	23
2	A Self-Packaged Wide Stopband Bandpass Filter Using Integrated Substrate Gap Waveguide. , 2021, , .		1
3	Integrated substrate groove gap waveguide and application for filter design. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22830.	1.2	6
4	ISGW Bandpass Filtering Power Divider for Ku Band Applications. , 2021, , .		0
5	5G Dual-mode Bandpass Filters Fed by Coaxial and ISGW. , 2021, , .		2
6	Impact of indirect mode coupling on planar lightwave circuit based mode converters/multiplexers. Optics Communications, 2020, 465, 125608.	2.1	2
7	High Capacity Mode Division Multiplexing Based MIMO Enabled All-Optical Analog Millimeter-Wave Over Fiber Fronthaul Architecture for 5G and Beyond. IEEE Access, 2019, 7, 89522-89533.	4.2	29
8	Conical Double-Core Structure LP <sub>mn</sub> Mode Converter. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	0
9	Hybrid harmonic intermodulation distortion behavioral model for shortwave power amplifiers. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21718.	1.2	3
10	Integrated Substrate Gap Waveguide for 5G Microwave and Millimeter-Wave Components. , 2019, , .		3
11	Broadband LP <sub>01</sub> LP <sub>02</sub> mode converter for O-, E-, S-, C-, L-, and U-bands. Applied Optics, 2019, 58, 1185.	1.8	3
12	Monolithic InAs/InP quantum dash dual-wavelength DFB laser with ultra-low noise common cavity modes for millimeter-wave applications. Optics Express, 2019, 27, 35368.	3.4	23
13	Broadband linearization for 5G fronthaul transmission. Frontiers of Optoelectronics, 2018, 11, 107-115.	3.7	5
14	Broadband 60 GHz Antennas Fed by Substrate Integrated Gap Waveguides. IEEE Transactions on Antennas and Propagation, 2018, 66, 3261-3270.	5.1	47
15	Hybrid Linearization of Broadband Radio-Over-Fiber Transmission. IEEE Photonics Technology Letters, 2018, 30, 692-695.	2.5	14
16	A novel optical waveguide LP <sub>01</sub> /LP <sub>02</sub> mode converter. Optics Communications, 2018, 418, 98-105.	2.1	7
17	Fabrication of a LP <sub>01</sub> to LP <sub>02</sub> mode converter embedded in bulk glass using femtosecond direct inscription. Optics Communications, 2018, 410, 475-478.	2.1	12
18	Universal LP <sub>01</sub> to LP <sub>lm</sub> mode converter based on a bulk circular waveguide. OSA Continuum, 2018, 1, 426.	1.8	1

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19	Study of Bend Discontinuities in Substrate Integrated Gap Waveguide. IEEE Microwave and Wireless Components Letters, 2017, 27, 221-223.	3.2	8
20	Simple optical frequency comb generation using a passively mode-locked quantum dot laser. Optics Communications, 2017, 396, 105-109.	2.1	5
21	Mach-Zehnder modulator modulated radio-over-fiber transmission system using dual wavelength linearization. Optics Communications, 2017, 385, 229-237.	2.1	5
22	Simple and seamless broadband optical frequency comb generation using an InAs/InP quantum dot laser. Optics Letters, 2017, 42, 1173.	3.3	6
23	Linearization of radio-over-fiber systems using directly modulated and electro-absorption modulator integrated lasers. , 2016, , .		2
24	Design of broadband and high-output power uni-traveling-carrier photodiodes. Optics Communications, 2016, 365, 194-207.	2.1	4
25	Ultra Broadband Predistortion Circuit for Radio-over-Fiber Transmission Systems. Journal of Lightwave Technology, 2016, 34, 5137-5145.	4.6	18
26	Investigation of broadband digital predistortion for broadband radio over fiber transmission systems. Optics Communications, 2016, 381, 346-351.	2.1	9
27	Design of substrate integrated gap waveguide. , 2016, , .		38
28	Analog Pre-Distortion Circuit for Radio Over Fiber Transmission. IEEE Photonics Technology Letters, 2016, 28, 2541-2544.	2.5	14
29	LP01 to LP0m mode converters using all-fiber two-stage tapers. Optics Communications, 2015, 354, 148-153.	2.1	9
30	Analysis of optical fiber-based LP <sub>01</sub> to LP <sub>02</sub> mode converters for the O-, S-, and C-Band. Applied Optics, 2015, 54, 5568.	2.1	11
31	Novel broadband analog predistortion circuit for radio-over-fiber systems. , 2015, , .		5
32	Analysis of Dual Wavelength Linearization Technique for Radio-Over-Fiber Systems With Electro-Absorption Modulator. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2692-2702.	4.6	5
33	Broadband Predistortion Circuit Design for Electro-Absorption Modulator in Radio over Fiber System. , 2014, , .		5
34	Linearization Technologies for Broadband Radio-Over-Fiber Transmission Systems. Photonics, 2014, 1, 455-472.	2.0	49
35	Generalized Two-Box Cascaded Nonlinear Behavioral Model for Radio Frequency Power Amplifiers With Strong Memory Effects. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2888-2899.	4.6	16
36	Review of linearization techniques for fiber-wireless systems. , 2014, , .		2

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37	Linearization of radio-over-fiber systems by using two lasers with different wavelengths. , 2014, , .		13
38	Broadband Predistortion Circuit Using Zero Bias Diodes for Radio Over Fiber Systems. IEEE Photonics Technology Letters, 2013, 25, 2101-2104.	2.5	20
39	Modeling of Single-Section Quantum Dot Mode-Locked Lasers: Impact of Group Velocity Dispersion and Self Phase Modulation. IEEE Journal of Quantum Electronics, 2013, 49, 1008-1015.	1.9	19
40	Design of broadband and high-output power uni-traveling-carrier photodiodes. Optics Express, 2013, 21, 6943.	3.4	11
41	Suppression of Radio over Fiber System Nonlinearity Using a Semiconductor Optical Amplifier and Mixed Polarization. , 2013, , .		3
42	Optical multiple millimeter-wave signal generation using frequency quadrupling for radio-over-fiber systems. Proceedings of SPIE, 2012, , .	0.8	0
43	Impact of modulation index on transmission performance of millimeter wave multiband OFDM ultra-wide-band wireless signal over fiber system. , 2012, , .		0
44	Characterization and compensation of AM-AM and AM-PM distortion in mixed polarization radio over fiber systems. , 2012, , .		5
45	Performance Enhancement of an OFDM Ultra-Wideband Transmission-Over-Fiber Link Using a Linearized Mixed-Polarization Single-Drive X-Cut Mach-Zehnder Modulator. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3328-3338.	4.6	14
46	Low-Cost Broadband Predistortion-Linearized Single-Drive x-Cut Mach-Zehnder Modulator for Radio-Over-Fiber Systems. IEEE Photonics Technology Letters, 2012, 24, 1571-1573.	2.5	11
47	Analysis of Simultaneous Photonic Frequency Downconversion and Optical Subcarrier Modulation in an Electroabsorption Modulator. Journal of Lightwave Technology, 2012, 30, 344-354.	4.6	11
48	Performance Analysis of a Photonic-Assisted Periodic Triangular-Shaped Pulses Generator. Journal of Lightwave Technology, 2012, 30, 1617-1624.	4.6	60
49	Impact of Out-of-band Interferers on MB-OFDM UWB Transmission in Radio over Fiber Systems. , 2012, , .		0
50	A SCS-Band InAs/InP Quantum Dot Semiconductor Mode-Locked Laser Emitting 403-GHz Repetition Rate Pulses. IEEE Photonics Technology Letters, 2011, 23, 543-545.	2.5	23
51	Performance Improvement of Radio-Over Fiber Links Using Mixed-Polarization Electro-Absorption Modulators. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3239-3248.	4.6	18
52	Experimental Demonstration of Mixed-Polarization to Linearize Electro-Absorption Modulators in Radio-Over-Fiber Links. IEEE Photonics Technology Letters, 2011, 23, 230-232.	2.5	16
53	Optical Single-Sideband Modulation With Tunable Optical Carrier to Sideband Ratio in Radio Over Fiber Systems. Journal of Lightwave Technology, 2011, 29, 775-781.	4.6	150
54	Mode Coupling Between Substrate Integrated Waveguide and Coplanar Waveguide for Traveling-Wave Electrooptical Modulator. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1258-1264.	4.6	5

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55	Breakthroughs in Optical Wireless Broadband Access Networks. IEEE Photonics Journal, 2011, 3, 331-336.	2.0	9
56	Impact of Crosstalk on MB-OFDM UWB Transmission in Radio over Fiber WDM System. , 2011, , .		1
57	Impact of RF Noise on Transmission Performance of Multiband OFDM UWB over Fiber Systems. , 2011, , .		1
58	Optical Generation of Millimeter-Wave Multiband OFDM Ultra-Wideband Wireless Signal and Distribution Over Fiber. IEEE Photonics Technology Letters, 2010, 22, 1180-1182.	2.5	15
59	Photonic Down-Conversion of Millimeter Wave Multiband Orthogonal Frequency Division Multiplexing Ultra-Wideband Using Four Wave Mixing in an Electro-Absorption Modulator. Journal of Lightwave Technology, 2010, 28, 1987-1993.	4.6	9
60	Impact of Electro-Absorption Modulator Integrated Laser on MB-OFDM Ultra-Wideband Signals Over Fiber Systems. Journal of Lightwave Technology, 2010, , .	4.6	8
61	Impact of Laser Relative Intensity Noise on a Multiband OFDM Ultrawideband Wireless Signal Over Fiber System. Journal of Optical Communications and Networking, 2010, 2, 841.	4.8	7
62	Power Control for Radio-Over-Fiber Downlinks in Frequency Division Multiplexing Cellular Communication Systems. Journal of Optical Communications and Networking, 2010, 2, 1022.	4.8	1
63	A Novel Analog Broadband RF Predistortion Circuit to Linearize Electro-Absorption Modulators in Multiband OFDM Radio-Over-Fiber Systems. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 3327-3335.	4.6	54
64	Photonic generation of millimeter-waves using two cascaded Electro-Absorption Modulators in radio-over-fiber systems. , 2010, , .		2
65	Performance evaluation of MB-OFDM Ultra-Wideband over fiber transmission using a low cost Electro-Absorption Modulator integrated laser. , 2010, , .		0
66	Impact of Optical Transmission on Multiband OFDM Ultra-Wideband Wireless System With Fiber Distribution. Journal of Lightwave Technology, 2009, 27, 4112-4123.	4.6	33
67	Precompensated Optical Double-Sideband Subcarrier Modulation Immune to Fiber Chromatic-Dispersion-Induced Radio Frequency Power Fading. Journal of Optical Communications and Networking, 2009, 1, 331.	4.8	23
68	Frequency Quadrupler for Millimeter-Wave Multiband OFDM Ultrawideband Wireless Signals and Distribution Over Fiber Systems. Journal of Optical Communications and Networking, 2009, 1, 428.	4.8	16
69	Enhanced Spurious-Free Dynamic Range Using Mixed Polarization in Optical Single Sideband Mach-Zehnder Modulator. Journal of Lightwave Technology, 2009, 27, 3034-3041.	4.6	80
70	Mixed-Polarization to Improve Dynamic Range of Optical Single Sideband in a Mach-Zehnder Modulator. , 2009, , .		0
71	Electroabsorption Modulator Frequency Down-Conversion for Uplink Radio-Over-Fiber. IEEE Photonics Technology Letters, 2008, 20, 1875-1877.	2.5	7
72	Frequency sixupler for millimeter-wave over fiber systems. Optics Express, 2008, 16, 10141.	3.4	107

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73	Analysis of frequency quadrupling using a single Mach-Zehnder modulator for millimeter-wave generation and distribution over fiber systems. Optics Express, 2008, 16, 10786.	3.4	68
74	A Simplified Wavelength Reuse and Dispersion Tolerance Scheme for Radio-Over-Fiber System. , 2007, , .		2
75	Frequency upconversion of multiple RF signals using optical carrier suppression for radio over fiber downlinks. Optics Express, 2007, 15, 16737.	3.4	40
76	Linearized Optical Single-Sideband Mach-Zehnder Modulator for Radio-Over-Fiber Systems. IEEE Photonics Technology Letters, 2007, 19, 2024-2026.	2.5	27
77	A novel millimeter-wave-band radio-over-fiber system with dense wavelength-division multiplexing bus architecture. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 929-937.	4.6	47
78	A novel single wavelength balanced system for radio over fiber links. IEEE Photonics Technology Letters, 2006, 18, 301-303.	2.5	24
79	Calculation of bit error ratio for optically pre-amplified DPSK receivers using optical Mach-Zehnder interferometer demodulation and balanced detection. , 2006, , .		2
80	Phase-Noise Analysis of Optically Generated Millimeter-Wave Signals With External Optical Modulation Techniques. Journal of Lightwave Technology, 2006, 24, 4861-4875.	4.6	65
81	Probability density function of noise statistics for optically pre-amplified DPSK receivers with optical Mach-Zehnder interferometer demodulation. Optics Communications, 2006, 258, 177-183.	2.1	10
82	Radio-Frequency and Millimeter-Wave Photonic Techniques for Broadband Communications and Sensor Networks. , 2006, , .		0
83	Noise statistics in optically preamplified differential phase-shift keying receivers with Mach-Zehnder interferometer demodulation: erratum. Optics Letters, 2005, 30, 676.	3.3	2
84	Noise statistics in optically preamplified differential phase-shift keying receivers with Mach-Zehnder interferometer demodulation. Optics Letters, 2004, 29, 337.	3.3	18
85	Soliton stability in optical fibers with polarization-mode dispersion. IEEE Photonics Technology Letters, 1998, 10, 376-378.	2.5	13
86	Polarization-division multiplexed solitons in optical fibers with polarization-mode dispersion. IEEE Photonics Technology Letters, 1998, 10, 1742-1744.	2.5	23
87	Limiter-discriminator detection of a coherent optical heterodyne M-ary CPFSK receiver. Journal of Lightwave Technology, 1992, 10, 1127-1131.	4.6	1
88	Error performance analysis for an optical heterodyne FSK communication system with a limiter-discriminator-integrator detector. Optical and Quantum Electronics, 1992, 24, 555-564.	3.3	2
89	Error probability of optical heterodyne MSK communication system with limiter-discriminator-integrator detector. Electronics Letters, 1990, 26, 136.	1.0	4