

# Dongya Shen

## List of Publications by Year in descending order

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115  
papers

1,603  
citations

361045

20  
h-index

344852

36  
g-index

115  
all docs

115  
docs citations

115  
times ranked

1336  
citing authors

#	ARTICLE	IF	CITATIONS
1	Periodic Leaky-Wave Antenna for Millimeter Wave Applications Based on Substrate Integrated Waveguide. IEEE Transactions on Antennas and Propagation, 2010, 58, 340-347.	3.1	155
2	Optical Single-Sideband Modulation With Tunable Optical Carrier to Sideband Ratio in Radio Over Fiber Systems. Journal of Lightwave Technology, 2011, 29, 775-781.	2.7	150
3	Low-Cost and High-Efficient W-Band Substrate Integrated Waveguide Antenna Array Made of Printed Circuit Board Process. IEEE Transactions on Antennas and Propagation, 2012, 60, 1648-1653.	3.1	95
4	Enhanced Spurious-Free Dynamic Range Using Mixed Polarization in Optical Single Sideband Mach-Zehnder Modulator. Journal of Lightwave Technology, 2009, 27, 3034-3041.	2.7	80
5	Phase-Noise Analysis of Optically Generated Millimeter-Wave Signals With External Optical Modulation Techniques. Journal of Lightwave Technology, 2006, 24, 4861-4875.	2.7	65
6	Mach-Zehnder: A Review of Bias Control Techniques for Mach-Zehnder Modulators in Photonic Analog Links. IEEE Microwave Magazine, 2013, 14, 102-107.	0.7	53
7	Linearization Technologies for Broadband Radio-Over-Fiber Transmission Systems. Photonics, 2014, 1, 455-472.	0.9	49
8	Broadband 60 GHz Antennas Fed by Substrate Integrated Gap Waveguides. IEEE Transactions on Antennas and Propagation, 2018, 66, 3261-3270.	3.1	47
9	Packaged Microstrip Line: A New Quasi-TEM Line for Microwave and Millimeter-Wave Applications. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 707-719.	2.9	45
10	A Substrate Integrated Gap Waveguide Based Wideband 3-dB Coupler for 5G Applications. IEEE Access, 2018, 6, 66798-66806.	2.6	40
11	A Low-Profile Substrate-Integrated-Gap-Waveguide- Fed Magnetolectric Dipole. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1373-1376.	2.4	39
12	Design of substrate integrated gap waveguide. , 2016, , .		38
13	Development of Packaged Ultra-Wideband Bandpass Filters. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 220-228.	2.9	37
14	Impact of Optical Transmission on Multiband OFDM Ultra-Wideband Wireless System With Fiber Distribution. Journal of Lightwave Technology, 2009, 27, 4112-4123.	2.7	33
15	Millimeter-Wave Circularly Polarized Array Antenna Using Substrate-Integrated Gap Waveguide Sequentially Rotating Phase Feed. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1124-1128.	2.4	29
16	Linearized Optical Single-Sideband Mach-Zehnder Modulator for Radio-Over-Fiber Systems. IEEE Photonics Technology Letters, 2007, 19, 2024-2026.	1.3	27
17	Impact of nonlinear distortion in radio over fiber systems with single-sideband and tandem single-sideband subcarrier modulations. Journal of Lightwave Technology, 2006, 24, 2076-2090.	2.7	26
18	A novel single wavelength balanced system for radio over fiber links. IEEE Photonics Technology Letters, 2006, 18, 301-303.	1.3	24

#	ARTICLE	IF	CITATIONS
19	Compact Coplanar Waveguide Spiral Antenna With Circular Polarization for Wideband Applications. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 666-669.	2.4	24
20	A \$C\$-Band InAs/InP Quantum Dot Semiconductor Mode-Locked Laser Emitting 403-GHz Repetition Rate Pulses. IEEE Photonics Technology Letters, 2011, 23, 543-545.	1.3	23
21	Distributed fiber Raman amplifiers with incoherent pumping. IEEE Photonics Technology Letters, 2005, 17, 1175-1177.	1.3	21
22	Simulation of Linear Birefringence Reduction in Fiber-Optical Current Sensor. IEEE Photonics Technology Letters, 2007, 19, 1568-1570.	1.3	20
23	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.	1.0	19
24	Noise statistics in optically preamplified differential phase-shift keying receivers with Mach-Zehnder interferometer demodulation. Optics Letters, 2004, 29, 337.	1.7	18
25	Performance Improvement of Radio-Over Fiber Links Using Mixed-Polarization Electro-Absorption Modulators. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3239-3248.	2.9	18
26	Ultra Broadband Predistortion Circuit for Radio-over-Fiber Transmission Systems. Journal of Lightwave Technology, 2016, 34, 5137-5145.	2.7	18
27	Design of high speed InGaAs/InP one-sided junction photodiodes with low junction capacitance. Optics Communications, 2019, 437, 321-329.	1.0	17
28	A novel miniaturized UWB antenna with four band-notches. Microwave and Optical Technology Letters, 2013, 55, 1202-1206.	0.9	16
29	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.	2.9	16
30	Substrate Integrated Gap Waveguide Bandpass Filters with High Selectivity and Wide Stopband. , 2018, , .		16
31	Optical Generation of Millimeter-Wave Multiband OFDM Ultra-Wideband Wireless Signal and Distribution Over Fiber. IEEE Photonics Technology Letters, 2010, 22, 1180-1182.	1.3	15
32	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.	2.9	14
33	Analog Pre-Distortion Circuit for Radio Over Fiber Transmission. IEEE Photonics Technology Letters, 2016, 28, 2541-2544.	1.3	14
34	Linearization of radio-over-fiber systems by using two lasers with different wavelengths. , 2014, , .		13
35	Fabrication of a LP01 to LP02 mode converter embedded in bulk glass using femtosecond direct inscription. Optics Communications, 2018, 410, 475-478.	1.0	12
36	Impact of fiber nonlinearity on PMD penalty in DWDM transmission systems. IEEE Photonics Technology Letters, 2005, 17, 501-503.	1.3	11

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37	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.	1.3	11
38	Analysis of Simultaneous Photonic Frequency Downconversion and Optical Subcarrier Modulation in an Electroabsorption Modulator. Journal of Lightwave Technology, 2012, 30, 344-354.	2.7	11
39	Analysis of optical fiber-based LP <sub>01</sub> → LP <sub>02</sub> mode converters for the O-, S-, and C-Band. Applied Optics, 2015, 54, 5568.	2.1	11
40	Design of packaged microstrip line. , 2016, , .		11
41	Tunable Terahertz Beat Signal Generation From an InAs/InP Quantum-Dot Mode-Locked Laser Combined With External-Cavity. IEEE Photonics Technology Letters, 2012, 24, 518-520.	1.3	10
42	Augmented radial basis function neural network predistorter for linearisation of wideband power amplifiers. Electronics Letters, 2014, 50, 877-879.	0.5	10
43	A novel photonic frequency down-shifting technique for millimeter-wave-band radio-over-fiber systems. IEEE Photonics Technology Letters, 2005, 17, 1728-1730.	1.3	9
44	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.	2.7	9
45	Breakthroughs in Optical Wireless Broadband Access Networks. IEEE Photonics Journal, 2011, 3, 331-336.	1.0	9
46	A Memory Term Reduction Approach for Digital Pre-Distortion Using the Attention Mechanism. IEEE Access, 2019, 7, 38185-38194.	2.6	9
47	Impact of Electro-Absorption Modulator Integrated Laser on MB-OFDM Ultra-Wideband Signals Over Fiber Systems. Journal of Lightwave Technology, 2010, , .	2.7	8
48	Study of Bend Discontinuities in Substrate Integrated Gap Waveguide. IEEE Microwave and Wireless Components Letters, 2017, 27, 221-223.	2.0	8
49	Electroabsorption Modulator Frequency Down-Conversion for Uplink Radio-Over-Fiber. IEEE Photonics Technology Letters, 2008, 20, 1875-1877.	1.3	7
50	A simple simulation method for Nakagami fading channel. , 2010, , .		7
51	Behavior modeling for multi-carrier multi-mode power amplifiers using real-valued time-delay RBF networks. , 2011, , .		7
52	A novel miniaturized UWB antenna with 5.7 GHz band rejection function. , 2012, , .		7
53	A novel optical waveguide LP <sub>01</sub> /LP <sub>02</sub> mode converter. Optics Communications, 2018, 418, 98-105.	1.0	7
54	Substrate Integrated Gap Waveguide Circularly Polarized Slot Antenna. , 2018, , .		7

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55	Design of Substrate Integrated Gap Waveguide and Their Transitions to Microstrip Line, for Millimeter-Wave Applications. IEEE Access, 2019, 7, 154268-154276.	2.6	7
56	A Self-Packaged Ultra-Wide Band Bandpass Filter Using Integrated Substrate Gap Waveguide. , 2019, , .		6
57	Integrated substrate groove gap waveguide and application for filter design. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22830.	0.8	6
58	Novel broadband analog predistortion circuit for radio-over-fiber systems. , 2015, , .		5
59	Broadband linearization for 5G fronthaul transmission. Frontiers of Optoelectronics, 2018, 11, 107-115.	1.9	5
60	Mean Relative Intensity Noise Transfer in Fiber Raman Amplifiers Using Multiple-Wavelength Pumps. Journal of Lightwave Technology, 2007, 25, 1458-1465.	2.7	4
61	Design of broadband and high-output power uni-traveling-carrier photodiodes. Optics Communications, 2016, 365, 194-207.	1.0	4
62	A printed magneto-electric dipole based on substrate integrated gap waveguide. , 2017, , .		4
63	A Hybrid BEM/WTM/DFT Technique for Analysis of the EM Scattering From Open-Ended Circular Cavities With Cylindrically Periodic Terminations. IEEE Transactions on Antennas and Propagation, 2004, 52, 2479-2483.	3.1	3
64	Junction Thermal Impedance Measurement of Superluminescent Diodes. IEEE Photonics Technology Letters, 2007, 19, 683-685.	1.3	3
65	A compact frequency reconfigurable antenna applied to WLAN/WiMAX. , 2011, , .		3
66	Channel model for in-body WBAN. , 2012, , .		3
67	A Simple Envelope-Assisted RF/IF Digital Predistortion Model for Broadband RoF Fronthaul Transmission. Journal of Lightwave Technology, 2018, 36, 4305-4311.	2.7	3
68	Hybrid harmonicâ€”intermodulation distortion behavioral model for shortwave power amplifiers. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21718.	0.8	3
69	Integrated Substrate Gap Waveguide for 5G Microwave and Millimeter-Wave Components. , 2019, , .		3
70	InGaAs/InP evanescently coupled one-sided junction waveguide photodiode design. Optical and Quantum Electronics, 2020, 52, 1.	1.5	3
71	Wide Stopband Filtering Antenna with High Gain for Ka Band. , 2020, , .		3
72	Broadband LP<sub>01</sub>â€”LP<sub>02</sub> mode converter for O-, E-, S-, C-, L-, and U-bands. Applied Optics, 2019, 58, 1185.	0.9	3

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73	Photonic generation of millimeter-waves using two cascaded Electro-Absorption Modulators in radio-over-fiber systems. , 2010, , .		2
74	A channel model of the wideband MIMO Mobile-to-Mobile systems. , 2010, , .		2
75	A novel channel model for mobile communications. , 2012, , .		2
76	Statistical characterization of the 400 MHz in-body propagation channel in in-door environments. , 2012, , .		2
77	Dynamic behavioral modeling for strongly nonlinear doherty pas using real-valued time-delay recurrent RBF model. Journal of Electronics, 2012, 29, 39-45.	0.2	2
78	Review of linearization techniques for fiber-wireless systems. , 2014, , .		2
79	Linearization of radio-over-fiber systems using directly modulated and electro-absorption modulator integrated lasers. , 2016, , .		2
80	Timeâ€division polynomial preâ€distorter for linearisation of 1.5 T MRI power amplifier. Journal of Engineering, 2017, 2017, 391-393.	0.6	2
81	Integrated Substrate Gap Waveguide Wideband Bandpass Filter with Two Transmission Zeros and Wide Stopband. , 2019, , .		2
82	Impact of indirect mode coupling on planar lightwave circuit based mode converters/multiplexers. Optics Communications, 2020, 465, 125608.	1.0	2
83	Millimeter-Wave Photonic Techniques for Broadband Communication and Sensor Applications. , 2006, , .		1
84	Performance characterization and limitation of coherence multiplexing technique in Radio over Fiber systems. , 2010, , .		1
85	Photoresponse analysis for uni-traveling-carrier photodiodes. , 2011, , .		1
86	A survey of capacity in cooperative relay networks. , 2011, , .		1
87	Analysis of the Bertoni-Walfisch propagation model for mobile radio. , 2011, , .		1
88	Reduction of intermodulation distortion in directly modulated lasers by RF predistortion. , 2011, , .		1
89	Multi-Carrier TD-SCDMA Power Amplifier Linearization with a Memory Polynomial Predistorter. , 2011, , .		1
90	A novel wideband planar fractal antenna. , 2012, , .		1

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91	A channel model for insufficient scattering mobile communications environment. , 2013, , .		1
92	A high isolation MIMO antenna for WLAN and WiMax. , 2013, , .		1
93	Two-stage taper fiber-based mode converters between LP<math>\infty</math> and LP<math>\infty</math>. , 2015, , .		1
94	A Novel Triple-Band Antenna for WLAN/WiMAX Applications. , 2015, , .		1
95	An equal-split Wilkinson power divider with tri-band and harmonic suppression. , 2015, , .		1
96	Characteristic impedance of integrated substrate gap waveguide. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22716.	0.8	1
97	A Novel High-Gain Magneto-Electric Dipole Antenna Fed by ISGW. , 2021, , .		1
98	Broadband ISGW Millimeter-Wave Filtering Patch Antenna. , 2021, , .		1
99	Bandstop filtering for integrated substrate gap waveguide <math>\infty</math> and wideband slot antenna for <math>5G</math>. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	0.8	1
100	Accurate Sampling of Gaussian Laser Beam Profile in Monte Carlo Simulation. , 0, , .		0
101	PSpice Modeling of Thermal Performance in Laser Diodes Packaging. , 2006, , .		0
102	16 kHz Scanning Optical Delay Line for Real-Time Video Rate Optical Coherence Tomography. , 2006, , .		0
103	Performance evaluation of MB-OFDM Ultra-Wideband over fiber transmission using a low cost Electro-Absorption Modulator integrated laser. , 2010, , .		0
104	Ultra-broadband supercontinuum generation using low-cost multimode pumped lasers and highly nonlinear fiber. , 2011, , .		0
105	Performance of RF Signal Transmission Over Coherence Multiplexing Systems. Journal of Lightwave Technology, 2011, 29, 1764-1774.	2.7	0
106	Physical statistical modelling of MIMO channel based on Rician distribution. , 2011, , .		0
107	Design of a planar antenna with G-shaped rings for WLAN/ WiMAX. , 2011, , .		0
108	The research on new adaptive beamforming algorithms. , 2012, , .		0

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109	Nonlinear characterization of concurrent dual-band RF power amplifiers. Journal of Electronics, 2012, 29, 215-221.	0.2	0
110	The MIMO antenna design based on embedded U-shaped metal frame structure. , 2016, , .		0
111	Correction to "Wavelength Blue-Shifting and Gain Spectral Bandwidth of InAs/InP Quantum Dots for Laser Applications Around 1.55 $\mu\text{m}$ " [Feb 18 Art. no. 2000109]. IEEE Journal of Quantum Electronics, 2018, 54, 1-1.	1.0	0
112	Conical Double-Core Structure LP <sub>mn</sub> Mode Converter. IEEE Photonics Journal, 2019, 11, 1-9.	1.0	0
113	Mean Relative Intensity Noise Transfer in Fiber Raman Amplifiers Using Multiple-Wavelength Pumps. Journal of Lightwave Technology, 2009, , .	2.7	0
114	A Novel Wideband Bandpass Filter by ISGW. , 2021, , .		0
115	A Wideband Circularly Polarized Leaky Wave Antenna based on ISGW. , 2021, , .		0