Peng-Chun Peng

List of Publications by Year
in descending order

219 papers	2,594 citations	201674 27 h-index	254184 43 g-index
219 all docs	219 docs citations	219 times ranked	1377 citing authors

#	Article	IF	Citations
1	Hybrid Optical Access Network Integrating Fiber-to-the-Home and Radio-Over-Fiber Systems. IEEE Photonics Technology Letters, 2007, 19, 610-612.	2.5	149
2	Optical Millimeter-Wave Signal Generation Using Frequency Quadrupling Technique and No Optical Filtering. IEEE Photonics Technology Letters, 2008, 20, 1027-1029.	2.5	130
3	Optical Millimeter-Wave Signal Generation Via Frequency 12-Tupling. Journal of Lightwave Technology, 2010, 28, 71-78.	4.6	113
4	Impact of Nonlinear Transfer Function and Imperfect Splitting Ratio of MZM on Optical Up-Conversion Employing Double Sideband With Carrier Suppression Modulation. Journal of Lightwave Technology, 2008, 26, 2449-2459.	4.6	88
5	Long-Distance FBG Sensor System Using a Linear-Cavity Fiber Raman Laser Scheme. IEEE Photonics Technology Letters, 2004, 16, 575-577.	2.5	79
6	A continuously tunable and filterless optical millimeter-wave generation via frequency octupling. Optics Express, 2009, 17, 19749.	3.4	69
7	Simultaneous Generation of Baseband and Radio Signals Using Only One Single-Electrode Mach–Zehnder Modulator With Enhanced Linearity. IEEE Photonics Technology Letters, 2006, 18, 2481-2483.	2.5	67
8	A tunable dual-wavelength erbium-doped fiber ring laser using a self-seeded Fabry-Perot laser diode. IEEE Photonics Technology Letters, 2003, 15, 661-663.	2.5	62
9	Optical 16-QAM-52-OFDM transmission at 4 Gbit/s by directly modulating a coherently injection-locked colorless laser diode. Optics Express, 2012, 20, 20071.	3.4	59
10	Intensity and Wavelength-Division Multiplexing FBG Sensor System Using a Tunable Multiport Fiber Ring Laser. IEEE Photonics Technology Letters, 2004, 16, 230-232.	2.5	56
11	Optical direct-detection OFDM signal generation for radio-over-fiber link using frequency doubling scheme with carrier suppression. Optics Express, 2008, 16, 6056.	3.4	56
12	An Ultra-Reliable MMW/FSO A-RoF System Based on Coordinated Mapping and Combining Technique for 5G and Beyond Mobile Fronthaul. Journal of Lightwave Technology, 2018, 36, 4952-4959.	4.6	48
13	Long-distance fiber grating sensor system using a fiber ring laser with EDWA and SOA. Optics Communications, 2005, 252, 127-131.	2.1	47
14	Optically controllable side-polished fiber attenuator with photoresponsive liquid crystal overlay. Optics Express, 2009, 17, 19988.	3.4	40
15	Single-mode monolithic quantum-dot VCSEL in 1.3 /spl mu/m with sidemode suppression ratio over 30 dB. IEEE Photonics Technology Letters, 2006, 18, 847-849.	2.5	39
16	20-Gbps optical LiFi transport system. Optics Letters, 2015, 40, 3276.	3.3	38
17	A Novel Direct Detection Microwave Photonic Vector Modulation Scheme for Radio-Over-Fiber System. IEEE Photonics Technology Letters, 2008, 20, 1106-1108.	2.5	35
18	Optical Millimeter-Wave Up-Conversion Employing Frequency Quadrupling Without Optical Filtering. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 2084-2092.	4.6	32

#	Article	IF	Citations
19	A Full Field-of-View Self-Steering Beamformer for 5G mm-Wave Fiber-Wireless Mobile Fronthaul. Journal of Lightwave Technology, 2020, 38, 1221-1229.	4.6	32
20	Fiber Bragg Grating Sensor System With Two-Level Ring Architecture. IEEE Sensors Journal, 2009, 9, 309-313.	4.7	31
21	Clock-Free RZ-BPSK Data Generation Using Self-Starting Optoelectronic Oscillator. Journal of Lightwave Technology, 2011, 29, 1702-1707.	4.6	31
22	A novel fiber-laser-based sensor network with self-healing function. IEEE Photonics Technology Letters, 2003, 15, 275-277.	2.5	30
23	Reliable Fiber Sensor System with Star-Ring-Bus Architecture. Sensors, 2010, 10, 4194-4205.	3.8	30
24	Enhancement of the Multiplexing Capacity and Measurement Accuracy of FBG Sensor System Using IWDM Technique and Deep Learning Algorithm. Journal of Lightwave Technology, 2020, 38, 1589-1603.	4.6	30
25	Generation of optical millimeter-wave signals and vector formats using an integrated optical I/Q modulator [Invited]. Journal of Optical Networking, 2009, 8, 188.	2.5	28
26	WDM up-conversion employing frequency quadrupling in optical modulator. Optics Express, 2009, 17, 1726.	3.4	28
27	Beyond-Bandwidth Electrical Pulse Modulation of a TO-Can Packaged VCSEL for 10 Gbit/s Injection-Locked NRZ-to-RZ Transmission. Journal of Lightwave Technology, 2011, 29, 830-841.	4.6	28
28	$4imes100$ -Gb/s PAM-4 FSO Transmission Based on Polarization Modulation and Direct Detection. IEEE Photonics Technology Letters, 2019, 31, 755-758.	2.5	28
29	Using a Machine Learning Algorithm Integrated with Data De-Noising Techniques to Optimize the Multipoint Sensor Network. Sensors, 2020, 20, 1070.	3.8	25
30	Multiwavelength fiber laser for the fiber link monitoring system. Optics and Laser Technology, 2013, 51, 62-66.	4.6	24
31	A Delta-Star-Based Multipoint Fiber Bragg Grating Sensor Network. IEEE Sensors Journal, 2011, 11, 875-881.	4.7	23
32	Multi-IF-Over-Fiber Based Mobile Fronthaul With Blind Linearization and Flexible Dispersion Induced Bandwidth Penalty Mitigation. Journal of Lightwave Technology, 2019, 37, 1424-1433.	4.6	23
33	Polarization-Tracking-Free PDM Supporting Hybrid Digital-Analog Transport for Fixed-Mobile Systems. IEEE Photonics Technology Letters, 2019, 31, 54-57.	2.5	23
34	Real-Time Demonstration of Adaptive Functional Split in 5G Flexible Mobile Fronthaul Networks. , 2018, , .		23
35	Intensity and Wavelength Division Multiplexing FBG Sensor System Using a Raman Amplifier and Extreme Learning Machine. Journal of Sensors, 2018, 2018, 1-11.	1.1	22
36	A 20-m/40-Gb/s 1550-nm DFB LD-Based FSO Link. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	20

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37	A Hybrid CATV/16-QAM-OFDM In-House Network Over SMF and GI-POF/VLC Transport. IEEE Photonics Technology Letters, 2015, 27, 526-529.	2.5	20
38	Enhanced Multi-Level Signal Recovery in Mobile Fronthaul Network Using DNN Decoder. IEEE Photonics Technology Letters, 2018, 30, 1511-1514.	2.5	20
39	Integration of fiber and FSO network with fault-protection for optical access network. Optics Communications, 2021, 484, 126676.	2.1	20
40	Three-Dimensional Mesh-Based Multipoint Sensing System With Self-Healing Functionality. IEEE Photonics Technology Letters, 2010, 22, 565-567.	2.5	19
41	Tunable slow light device using quantum dot semiconductor laser. Optics Express, 2006, 14, 12880.	3.4	18
42	A hybrid star-ring architecture for fiber Bragg grating sensor system. IEEE Photonics Technology Letters, 2003, 15, 1270-1272.	2.5	17
43	Cost-Effective Multiservices Hybrid Access Networks With no Optical Filter at Remote Nodes. IEEE Photonics Technology Letters, 2008, 20, 812-814.	2.5	17
44	Chirp and error rate analyses of an optical-injection gain-switching VCSEL based all-optical NRZ-to-PRZ converter. Optics Express, 2008, 16, 4838.	3.4	17
45	A Long-Distance Millimeter-Wave RoF System With a Low-Cost Directly Modulated Laser. IEEE Photonics Technology Letters, 2018, 30, 1396-1399.	2.5	17
46	Multiwavelength fiber laser using S-band erbium-doped fiber amplifier and semiconductor optical amplifier. Optics Communications, 2006, 259, 200-203.	2.1	16
47	An SOI Michelson interferometer sensor with waveguide Bragg reflective gratings for temperature monitoring. Microwave and Optical Technology Letters, 2001, 30, 321-322.	1.4	15
48	Direct CATV modulation and phase remodulated radio-over-fiber transport system. Optics Express, 2010, 18, 10301.	3.4	15
49	Simplified radio-over-fiber transport systems with a low-cost multiband light source. Optics Letters, 2010, 35, 4021.	3.3	15
50	Fiber Bragg Grating-Based Three-Dimensional Multipoint Ring-Mesh Sensing System With Robust Self-Healing Function. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1613-1620.	2.9	15
51	A Bidirectional Hybrid Lightwave Transport System Based on Fiber-IVLLC and Fiber-VLLC Convergences. IEEE Photonics Journal, 2015, 7, 1-11.	2.0	15
52	Self-healing fibre grating sensor system using tunable multiport fibre laser scheme for intensity and wavelength division multiplexing. Electronics Letters, 2002, 38, 1510.	1.0	14
53	Generation of Carrier Suppressed Optical mm-wave Signals using Frequency Quadrupling and no Optical Filtering. , 2008, , .		14
54	A 50-m/40 Gb/s 680-nm VCSEL-Based FSO Communication. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	14

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55	Optical Signal Processing for W-Band Radio-Over-Fiber System With Tunable Frequency Response. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	14
56	Intensity and Wavelength-Division Multiplexing Fiber Sensor Interrogation Using a Combination of Autoencoder Pre-Trained Convolution Neural Network and Differential Evolution Algorithm. IEEE Photonics Journal, 2021, 13, 1-9.	2.0	14
57	Dynamic characteristics of long-wavelength quantum dot vertical-cavity surface-emitting lasers with light injection. Optics Express, 2006, 14, 2944.	3.4	13
58	Hybrid CATV/MMW/BB lightwave transmission system based on fiber-wired/fiber-wireless/fiber-VLLC integrations. Optics Express, 2015, 23, 31807.	3.4	13
59	A 12 GHz wavelength spacing multi-wavelength laser source for wireless communication systems. Optics and Laser Technology, 2017, 93, 175-179.	4.6	13
60	Performance Enhancement of Optical Comb Based Microwave Photonic Filter by Machine Learning Technique. Journal of Lightwave Technology, 2020, 38, 5302-5310.	4.6	13
61	Integration of Multivariate Gaussian Mixture Model for Enhanced PAM-4 Decoding Employing Basis Expansion. , 2018, , .		13
62	Reliable architecture for high-capacity fiber-radio systems. Optical Fiber Technology, 2007, 13, 236-239.	2.7	12
63	Hexagonal Mesh Architecture for Large-Area Multipoint Fiber Sensor System. IEEE Photonics Technology Letters, 2014, 26, 1878-1881.	2.5	12
64	Reliable self-healing FBG sensor network for improvement of multipoint strain sensing. Optics Communications, 2021, 499, 127286.	2.1	12
65	Real-Time FPGA Demonstration of Hybrid Bi-directional MMW and FSO Fronthaul Architecture. , 2019, , .		12
66	RoF transport systems with OSNR enhanced multi-band optical carrier generator. Optics Express, 2011, 19, 18516.	3.4	11
67	Generation of Wavelength-Tunable Optical Pulses Using a Linear-Cavity Fiber Laser Scheme With a Fabryâ€“PÃ‰rot Laser Diode. IEEE Photonics Technology Letters, 2004, 16, 1023-1025.	2.5	10
68	Grand Challenges of Fiber Wireless Convergence for 5G Mobile Data Communications. , 2018, , .		10
69	Tunable erbium-doped fiber ring laser with signal-averaging function for fiber-optic sensing applications. Laser Physics, 2011, 21, 188-190.	1.2	9
70	Employing injection-locked FP LDs to set up a hybrid CATV/MW/MMW WDM light wave transmission system. Optics Letters, 2014, 39, 3931.	3.3	9
71	DSBCS modulation scheme for hybrid wireless and cable television system. Optics Express, 2014, 22, 1135.	3.4	9
72	Demonstration of optical frequency quadrupling combined with direct/external signal double-sideband suppressed-carrier modulation. Optics Communications, 2014, 317, 34-39.	2.1	9

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73	A Full duplex radio-over-fiber linkâ€¨with Multi-level OFDM signal via a single-electrode MZM and wavelength reuse with aâ€¨RSOA. Optics Express, 2010, 18, 2710.	3.4	8
74	Integrating Fiber-to-the-Home and POF In-Door Routing CATV Transport System. Journal of Lightwave Technology, 2010, 28, 1864-1869.	4.6	8
75	Hybrid CATV/16-QAM OFDM in-building networks over SMF and GI-POF transport. Optics Express, 2011, 19, 9575.	3.4	8
76	A hybrid CATV/OFDM long-reach passive optical network architecture. Optics Express, 2012, 20, 4219.	3.4	8
77	A stable multiwavelength SOA-based fiber ring laser with ultra-narrow wavelength spacing. Laser Physics, 2012, 22, 268-272.	1.2	8
78	Novel optical add-drop multiplexer for wavelength-division-multiplexing networks. Optics Communications, 2012, 285, 3093-3099.	2.1	8
79	A fiber-optical cable television system using a reflective semiconductor optical amplifier. Laser Physics, 2013, 23, 025106.	1.2	8
80	Double Sideband With Optical Carrier Suppression Scheme for Broadcasting Transmission. IEEE Photonics Technology Letters, 2014, 26, 1172-1175.	2.5	8
81	FTTH and Two-Band RoF Transport Systems Based on an Optical Carrier and Colorless Wavelength Separators. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	8
82	Tunable Microwave Photonic Filter for Millimeter-wave Mobile Fronthaul Systems. , 2018, , .		8
83	Simple Multi-RAT RoF System With $2imes2$ MIMO Wireless Transmission. IEEE Photonics Technology Letters, 2019, 31, 1025-1028.	2.5	8
84	Bandwidth-Enhanced PAM-4 Transmissions Using Polarization Modulation and Direct Detection With a Tunable Frequency Range. Journal of Lightwave Technology, 2019, 37, 1014-1022.	4.6	8
85	A Simplified Radio-Over-Fiber System for Over 100-km Long-Reach n-QAM Transmission. IEEE Photonics Journal, 2020, 12, 1-8.	2.0	8
86	High-resolution fiber Bragg grating sensor system using linear-cavity fiber laser scheme. Microwave and Optical Technology Letters, 2002, 34, 323-325.	1.4	7
87	OCDMA light source using directly modulated Fabry-Pe/spl acute/rot laser diode in an external injection scheme. IEEE Photonics Technology Letters, 2006, 18, 1103-1105.	2.5	7
88	Laser-Based Optical Wireless Communications for Internet of Things (IoT) Application. IEEE Internet of Things Journal, 2022, 9, 24466-24476.	8.7	7
89	A self-healing architecture for fiber bragg grating sensor network. , 0, , .		6
90	Generation of Wavelength-Tunable Optical Pulses Using EDFA as External-Injection Light Source and Amplifier for Fabryâ€“PA‰rot Laser Diode. IEEE Photonics Technology Letters, 2004, 16, 2553-2555.	2.5	6

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91	A Cost-Effective Fast Frequency-Hopped Code-Division Multiple-Access Light Source Using Self-Seeded Fabryâ€“PÂ‰rot Laser With Fiber Bragg Grating Array. IEEE Photonics Technology Letters, 2004, 16, 2550-2552.	2.5	6
92	Performance comparisons of external modulated hybrid analog-digital signals in electrical and optical domains. IEEE Photonics Technology Letters, 2005, 17, 2496-2498.	2.5	6
93	Novel Optical Vector Signal Generation With Carrier Suppression and Frequency Multiplication Based on a Single-Electrode Machâ€“Zehnder Modulator. IEEE Photonics Technology Letters, 2008, 20, 2060-2062.	2.5	6
94	RF phase shifter using a distributed feedback laser in microwave transport systems. Optics Express, 2009, 17, 7609.	3.4	6
95	Polarization Characteristics of Quantum-Dot Vertical-Cavity Surface-Emitting Laser With Light Injection. IEEE Photonics Technology Letters, 2010, 22, 179-181.	2.5	6
96	Hybrid Cable Television/Radio-Over-Fiber Transport System Based on Polarization Modulation Technique. IEEE Photonics Technology Letters, 2011, 23, 860-862.	2.5	6
97	Hybrid Wireline and Wireless Transport System Based on Polarization Modulator. IEEE Photonics Technology Letters, 2013, 25, 1069-1072.	2.5	6
98	A Distribute Feedback Laser Diode Composed Microwave Photonic Bandpass Filter for SCM-Based Optical Transport Systems. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 309-314.	2.9	6
99	A 20-km/60-Gb/s Two-Way PON Based on Directly Modulated Two-Stage Injection-Locked 1.55-<inline-formula> <tex-math notation="TeX">μ</tex-math></inline-formula> VCSEL Transmitters and Negative Dispersion Fibers. IEEE Photonics Journal, 2015, 7, 1-9.	2.0	6
100	Fiber-ring laser-based fiber grating sensor system using self-healing ring architecture. Microwave and Optical Technology Letters, 2002, 35, 441-444.	1.4	5
101	A reliable architecture for FBG sensor systems. Microwave and Optical Technology Letters, 2003, 39, 479-482.	1.4	5
102	Generation of Direct-Detection Optical OFDM Signal for Radio-Over-Fiber Link using Frequency Doubling Scheme with Carrier Suppression. , 2008, , .		5
103	Hybrid cable television and orthogonal-frequency-division-multiplexing transport system basing on single wavelength polarization and amplitude remodulation schemes. Optics Letters, 2011, 36, 1716.	3.3	5
104	Multiwavelength Laser With Adjustable Ultranarrow Wavelength Spacing. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	5
105	Multiwavelength Laser Module Based on Distribute Feedback Laser Diode for Broadcast and Communication Systems. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	5
106	Tunable C- and L-band laser source based on colorless laser diode. Laser Physics Letters, 2017, 14, 035806.	1.4	5
107	Simultaneous transmission of wired and wireless signals based on double sideband carrier suppression. Optical Fiber Technology, 2017, 38, 108-112.	2.7	5
108	Multi-wavelength laser based on SOA and polarization maintaining fiber for WDM systems. , 2017, , .		5

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109	Hybrid transmission of unicast and broadcast signals without optical filter for WDM systems. Optical Fiber Technology, 2019, 47, 172-177.	2.7	5
110	Microwave Photonic Signal Processing Based on Tunable Multi-Wavelength Fiber Laser. , 2014, , .		5
111	A simple fiber-Bragg-grating sensor system based on a linear-cavity fiber laser. Microwave and Optical Technology Letters, 2003, 37, 15-17.	1.4	4
112	Tunable optical group delay in quantum dot vertical-cavity surface-emitting laser at 10â€…GHz. Electronics Letters, 2006, 42, 1036.	1.0	4
113	Experimental demonstration of optical 5-Gb/s 16-QAM OFDM signal generation and wavelength reuse for 1.25-Gbit/s uplink signal. , 2008, , .		4
114	A simple model for cavity enhanced slow lights in vertical cavity surface emission lasers. Journal of Optics, 2008, 10, 044016.	1.5	4
115	Wavelength-tunable optical pulse generation from a fiber ring laser with a reflective semiconductor optical amplifier. Laser Physics, 2011, 21, 509-511.	1.2	4
116	SOA-based fiber ring laser use in a photonic radio-frequency phase shifter. Laser Physics, 2011, 21, 522-525.	1.2	4
117	Hybrid OFDM and Radio-Over-Fiber Transport System Based on a Polarization Modulator. IEEE Photonics Journal, 2015, 7, 1-8.	2.0	4
118	Broadband IF-Over-Fiber Transmission Based on a Polarization Modulator. IEEE Photonics Technology Letters, 2018, 30, 2087-2090.	2.5	4
119	Long-Reach MMWoF Using Single-Sideband Modulated Dual-Mode VCSEL with 16-QAM OFDM at 8 Gbit/s. , 2017, , .		4
120	Realization of Tunable Frequency Response in Polarization Modulation and Direct Detection Scheme for High-speed Optical Access System. , 2018, , .		4
121	Design and simulation of a 2Ã—2NSOI optical power splitter. Microwave and Optical Technology Letters, 2002, 32, 307-310.	1.4	3
122	Wavelength-tunable add-drop multiplexers using fiber Fabry-PeÂ´rot tunable filters for bidirectional wavelength-division multiplexing networks. Optical Engineering, 2004, 43, 2422.	1.0	3
123	Tunable dual-wavelength linear-cavity fiber laser by using an external injection-seeding scheme. Microwave and Optical Technology Letters, 2004, 40, 406-408.	1.4	3
124	1.3â€…[micro sign]m quantum dot vertical-cavity surface-emitting laser with external light injection. Electronics Letters, 2005, 41, 1222.	1.0	3
125	40â€…GHz Phase Shifter based on Semiconductor Laser. Electronics Letters, 2008, 44, 520.	1.0	3
126	Relative Intensity Noise Characteristics of Long-Wavelength Quantum Dot Vertical-Cavity Surface-Emitting Lasers. Japanese Journal of Applied Physics, 2008, 47, 6357-6358.	1.5	3

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127	Dynamic Characteristics and Linewidth Enhancement Factor of Quantum-Dot Vertical-Cavity Surface-Emitting Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 844-849.	2.9	3
128	Continuously Tunable Large-Dynamic-Range Radio-Frequency Phase Shifter Via a Soliton Self-Frequency-Shifted Source and a Dispersive Fiber. IEEE Photonics Technology Letters, 2009, 21, 313-315.	2.5	3
129	A Radio-Over-GI-POF Transport System. Journal of Lightwave Technology, 2010, 28, 1917-1921.	4.6	3
130	Novel Ring Protection Architecture for Fiber Sensor System. Japanese Journal of Applied Physics, 2011, 50, 082501.	1.5	3
131	Microwave transport systems that use semiconductor laser as radio-frequency amplifier. Optics Communications, 2012, 285, 2433-2438.	2.1	3
132	A distributed feedback laser for a tunable microwave photonic filter. Laser Physics Letters, 2013, 10, 075109.	1.4	3
133	Multi-Service Cable Television System Using a Single Wavelength. IEEE Photonics Journal, 2013, 5, 6601307-6601307.	2.0	3
134	Improvement of a triple-wavelength erbium-doped fiber laser using a Fabryâ€“Perot laser diode. Laser Physics, 2013, 23, 025105.	1.2	3
135	Erbiumâ€doped fiber laser for remote fiber grating sensor system. Microwave and Optical Technology Letters, 2015, 57, 2809-2813.	1.4	3
136	Hybrid wireless-over-fiber transmission system based on multiple injection-locked FP LDs. Optics Express, 2015, 23, 19874.	3.4	3
137	A Bidirectional Wireless-Over-Fiber Transport System. IEEE Photonics Journal, 2015, 7, 1-9.	2.0	3
138	A 4-channel Beamformer for 9-Gb/s MMW 5G Fixedwireless Access over 25-km SMF with Bit-loading OFDM. , 2019, , .		3
139	Reinforcement learning for W-band radio-over-fiber system using a polarization modulator. Optics Letters, 2022, 47, 2008.	3.3	3
140	Star-Bus-Ring Architecture for Fiber Bragg Grating Sensors. Japanese Journal of Applied Physics, 2004, 43, 7072-7076.	1.5	2
141	Experimental demonstration of optical colorless direct-detection OFDM signals with 16- and 64-QAM formats beyond 15 Gb/s. , 2008, , .		2
142	Improvement of transmission in fibre wireless system using semiconductor laser amplifier. Electronics Letters, 2008, 44, 298.	1.0	2
143	Distributed Feedback Laser in External Light Injection Scheme for Tunable Slow Light. Japanese Journal of Applied Physics, 2008, 47, 4600-4601.	1.5	2
144	Electrically controlled phase shifter using semiconductor laser in optical single sideband system. , 2009, , .		2

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145	Coherently injection-locked weak-resonant-cavity laser diode for optical 16-QAM-OFDM transmission at 4 Gb/s. , 2012, , .		2
146	Wavelength switching based on quantum-dot vertical-cavity surface-emitting laser. Laser Physics, 2012, 22, 1373-1377.	1.2	2
147	A 50 m/40 Gbps 680-nm VCSEL-based FSO communication. , 2016, , .		2
148	Microwave Frequency Quadrupling Based on Distributed Feedback Laser and a Single Intensity Modulator. Fiber and Integrated Optics, 2017, 36, 196-202.	2.5	2
149	An Effective Artificial Neural Network Equalizer with S-shape Activation Function for High-speed 16-QAM Transmissions using Low-cost Directly Modulated Laser. , 2018, , .		2
150	An Artificial Neural Network MIMO Demultiplexer for Small-Cell MM-Wave RoF Coordinated Multi-Point Transmission System. , 2018, , .		2
151	Dual-Output Machâ€“Zehnder Modulator for Optical Access Networks. Fiber and Integrated Optics, 2018, 37, 256-263.	2.5	2
152	FBG Sensor Signal Detection Technique Using Multilayer Perceptron Approach for Internet of Things (IoT) Application. , 2020, , .		2
153	Switchable Multi-Wavelength Fiber Laser Based on Weak-Resonant-Cavity Fabry-Perot Laser Diode. , 2014, , .		2
154	Ring Topology Based Mesh Sensing System with Self-healing Function using FBGs and AWG. , 2010, , .		2
155	Novel Ring Protection Architecture for Fiber Sensor System. Japanese Journal of Applied Physics, 2011, 50, 082501.	1.5	2
156	Spectrum-efficient 50-Gbps Long-Range Optical Access over 85-km SSMF via DML Using Windowed OFDM Supporting Quasi-Gapless Asynchronous Multiband Transmission. , 2018, , .		2
157	RF Fading Circumvention Using a Polarization Modulator for Supporting W-Band RoF Transport from 85 to 95 GHz. , 2020, , .		2
158	Prediction of THz Absorption and Inverse Design of Graphene-Based Metasurface Structure Using Deep Learning. , 2021, , .		2
159	Long-distance FBG Sensor System for Remote Sensing and Internet of Things (IoT) Applications. , 2020, , .		2
160	A Neural-network-based Inverse Design of the Microwave Photonic Filter Using Multiwavelength Laser. Optics Communications, 2022, 523, 128729.	2.1	2
161	Accurate temperature sensor system based on linear-cavity fiber laser array. , 0, , .		1
162	Tunable Slow Light using Quantum Dot VCSEL for Subcarrier Multiplexed System. , 2007, , .		1

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163	Simultaneous Modulation and Transmission of FTTH Baseband and Radio Signals on a Single Wavelength. , 2007, , .		1
164	Tunable slow light in quantum well vertical-cavity surface-emitting laser at 40 ghz. , 2008, , .		1
165	Optical vector signal generation using double sideband with carrier suppression and frequency multiplication. , 2008, , .		1
166	Electrically and Continuously Tunable Optical Delay Line Based on a Semiconductor Laser. Japanese Journal of Applied Physics, 2010, 49, 074102.	1.5	1
167	Multipoint Mesh Sensing System with Self-Healing Functionality. , 2010, , .		1
168	Fiber-laser-based sensor system with bus-ring architecture. Laser Physics, 2012, 22, 1419-1424.	1.2	1
169	Vertical-Cavity Surface-Emitting Laser for Tunable Microwave Photonic Filter. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1701605-1701605.	2.9	1
170	Long-distance sensing fiber sensor system using broadband source and Raman amplifier. , 2017, , .		1
171	Extreme Mobile Broadband Tier-II Fronthaul Network Enabled by a New DNN Machine Learning Framework. , 2018, , .		1
172	Self-Start Multi-Wavelength Laser Source with Tunable Delay-Line Interferometer and Optical Fiber Reflector for Wireless Communication System. Applied Sciences (Switzerland), 2021, 11, 9553.	2.5	1
173	Slow Light in Quantum Dot Semiconductor Laser for Photonic RF Phase Shifter. , 2007, , .		1
174	4Ã—100G PAM-4 Transmission in Faster-than-Nyquist Systems Incorporating Eigenvalue-Space Precoding. , 2018, , .		1
175	Robust Remote Sensing FBG Sensor System Using Bidirectional-EDFA Techniques. , 2021, , .		1
176	A Deep Neural Network Equalizer for FSO Transmission System. , 2021, , .		1
177	Microwave signal generation with discrete mode laser diode. Laser Physics Letters, 2022, 19, 056201.	1.4	1
178	Over 31 nm Wavelength-Switched Pulse Generation From a Fiber Ring Laser with a Fabryâ€“Perot Laser Diode. Japanese Journal of Applied Physics, 2004, 43, 4236-4237.	1.5	0
179	Dynamic Encoder/Decoder Based on Fiber Bragg Gratings for Optical Security System. Japanese Journal of Applied Physics, 2004, 43, 8101-8102.	1.5	0
180	Tunable single- and dual-wavelength fiber ring lasers using an Er-Yb doped waveguide amplifier. Optical Engineering, 2005, 44, 060507.	1.0	0

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181	Wavelength-tunable optical short pulse generation with constant repetition frequency and pulsewidth. Optical Engineering, 2005, 44, 064205.	1.0	0
182	Dynamic characteristics of quantum dot VCSEL with external light injection. , 2006, , .		0
183	A star-ring-bus architecture for WDM fiber-wireless system. , 2006, , .		0
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