Sethumadhavan Chandrasekhar

List of Publications by Year in descending order

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SETHUMADHAVAN

#	Article	IF	CITATIONS
1	Integrated lithium niobate electro-optic modulators operating at CMOS-compatible voltages. Nature, 2018, 562, 101-104.	13.7	1,402
2	Phase-conjugated twin waves for communication beyond the Kerr nonlinearity limit. Nature Photonics, 2013, 7, 560-568.	15.6	371
3	112-Tb/s Space-division multiplexed DWDM transmission with 14-b/s/Hz aggregate spectral efficiency over a 768-km seven-core fiber. Optics Express, 2011, 19, 16665.	1.7	283
4	Experimental investigation on the performance of closely spaced multi-carrier PDM-QPSK with digital coherent detection. Optics Express, 2009, 17, 21350.	1.7	173
5	448-Gb/s Reduced-Guard-Interval CO-OFDM Transmission Over 2000 km of Ultra-Large-Area Fiber and Five 80-GHz-Grid ROADMs. Journal of Lightwave Technology, 2011, 29, 483-490.	2.7	150
6	Monolithic Silicon Photonic Integrated Circuits for Compact 100 <formula formulatype="inline"><tex notation="TeX"> \$^{+}\$</tex>Gb/s Coherent Optical Receivers and Transmitters. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 150-157.</formula 	1.9	132
7	Kramers–Kronig Receivers for 100-km Datacenter Interconnects. Journal of Lightwave Technology, 2018, 36, 79-89.	2.7	119
8	Simple Multichannel Optical Equalizer Mitigating Intersymbol Interference for 40-Gb/s Nonreturn-To-Zero Signals. Journal of Lightwave Technology, 2004, 22, 249-256.	2.7	105
9	OFDM Based Superchannel Transmission Technology. Journal of Lightwave Technology, 2012, 30, 3816-3823.	2.7	102
10	Demonstration of 42.7-Gb/s DPSK receiver with 45 photons/bit sensitivity. IEEE Photonics Technology Letters, 2003, 15, 99-101.	1.3	97
11	High-speed monolithic p-i-n/HBT and HPT/HBT photoreceivers implemented with simple phototransistor structure. IEEE Photonics Technology Letters, 1993, 5, 1316-1318.	1.3	96
12	Digital Signal Processing Techniques Enabling Multi-Tb/s Superchannel Transmission: An overview of recent advances in DSP-enabled superchannels. IEEE Signal Processing Magazine, 2014, 31, 16-24.	4.6	88
13	Multiplication noise of wide-bandwidth InP/InGaAsP/InGaAs avalanche photodiodes. Journal of Lightwave Technology, 1989, 7, 473-478.	2.7	83
14	All-Electronic 100-GHz Bandwidth Digital-to-Analog Converter Generating PAM Signals up to 190 GBaud. Journal of Lightwave Technology, 2017, 35, 411-417.	2.7	83
15	20-Gb/s monolithic p-i-n/HBT photoreceiver module for 1.55-μm applications. IEEE Photonics Technology Letters, 1995, 7, 1201-1203.	1.3	81
16	Impact of filtering on RZ-DPSK reception. IEEE Photonics Technology Letters, 2003, 15, 840-842.	1.3	78
17	Packaged Monolithic Silicon 112-Gb/s Coherent Receiver. IEEE Photonics Technology Letters, 2011, 23, 762-764.	1.3	78
18	OSNR Monitoring Method for OOK and DPSK Based on Optical Delay Interferometer. IEEE Photonics Technology Letters, 2007, 19, 1172-1174.	1.3	77

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19	Demonstration of enhanced performance of an InP/InGaAs heterojunction phototransistor with a base terminal. IEEE Electron Device Letters, 1991, 12, 550-552.	2.2	73
20	128-Gb/s 100-km transmission with direct detection using silicon photonic Stokes vector receiver and I/Q modulator. Optics Express, 2016, 24, 14208.	1.7	71
21	Trans-Atlantic Field Trial Using High Spectral Efficiency Probabilistically Shaped 64-QAM and Single-Carrier Real-Time 250-Gb/s 16-QAM. Journal of Lightwave Technology, 2018, 36, 103-113.	2.7	71
22	25 x 40-Gb/s copolarized DPSK transmission over 12 x 100-km NZDF with 50-GHz channel spacing. IEEE Photonics Technology Letters, 2003, 15, 467-469.	1.3	68
23	Probabilistically shaped PDM 4096-QAM transmission over up to 200 km of fiber using standard intradyne detection. Optics Express, 2018, 26, 4522.	1.7	68
24	112-Tb/s 32-QAM-OFDM superchannel with 86-b/s/Hz intrachannel spectral efficiency and space-division multiplexed transmission with 60-b/s/Hz aggregate spectral efficiency. Optics Express, 2011, 19, B958.	1.7	66
25	WDM/SDM transmission of 10 x 128-Gb/s PDM-QPSK over 2688-km 7-core fiber with a per-fiber net aggregate spectral-efficiency distance product of 40,320 kmâ‹b/s/Hz. Optics Express, 2012, 20, 706.	1.7	66
26	OFC 2004 workshop on optical and electronic mitigation of impairments. Journal of Lightwave Technology, 2005, 23, 131-142.	2.7	64
27	Ultra-Long-Haul Transmission of 1.2-Tb/s Multicarrier No-Guard-Interval CO-OFDM Superchannel Using Ultra-Large-Area Fiber. IEEE Photonics Technology Letters, 2010, 22, 826-828.	1.3	64
28	M-ary pulse-position modulation and frequency-shift keying with additional polarization/phase modulation for high-sensitivity optical transmission. Optics Express, 2011, 19, B868.	1.7	64
29	Digital self-coherent detection. Optics Express, 2008, 16, 792.	1.7	63
30	Polarization Multiplexing With the Kramers-Kronig Receiver. Journal of Lightwave Technology, 2017, 35, 5418-5424.	2.7	63
31	Tunable dispersion compensation at 40-Gb/s using a multicavity etalon all-pass filter with NRZ, RZ, and CS-RZ modulation. Journal of Lightwave Technology, 2002, 20, 2136-2144.	2.7	61
32	A 10 Gbit/s OEIC photoreceiver using InP/InGaAs heterojunction bipolar transistors. Electronics Letters, 1992, 28, 466.	0.5	58
33	Real-Time 2.5 GS/s Coherent Optical Receiver for 53.3-Gb/s Sub-Banded OFDM. Journal of Lightwave Technology, 2010, 28, 494-501.	2.7	58
34	Diffusive base transport in narrow base InP/Ga0.47In0.53As heterojunction bipolar transistors. Applied Physics Letters, 1991, 59, 3431-3433.	1.5	54
35	Impact of Channel Plan and Dispersion Map on Hybrid DWDM Transmission of 42.7-Gb/s DQPSK and 10.7-Gb/s OOK on 50-GHz Grid. IEEE Photonics Technology Letters, 2007, 19, 1801-1803.	1.3	54
36	A hybrid electroabsorption modulator device for generation of high spectral-efficiency optical modulation formats. Optics Express, 2008, 16, 8480.	1.7	53

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37	A Si BiCMOS transimpedance amplifier for 10-Gb/s SONET receiver. IEEE Journal of Solid-State Circuits, 2001, 36, 769-776.	3.5	52
38	Four-Channel 100-Gb/s Per Channel Discrete Multitone Modulation Using Silicon Photonic Integrated Circuits. Journal of Lightwave Technology, 2016, 34, 79-84.	2.7	52
39	Wavelength blocking filter with flexible data rates and channel spacing. Journal of Lightwave Technology, 2005, 23, 54-61.	2.7	49
40	Fiber nonlinearity mitigation of WDM-PDM QPSK/16-QAM signals using fiber-optic parametric amplifiers based multiple optical phase conjugations. Optics Express, 2017, 25, 1618.	1.7	49
41	A 12-Gb/s high-performance, high-sensitivity monolithic p-i-n/HBT photoreceiver module for long-wavelength transmission systems. IEEE Photonics Technology Letters, 1995, 7, 182-184.	1.3	47
42	40-Gb/s return-to-zero alternate-mark-inversion (RZ-AMI) transmission over 2000 km. IEEE Photonics Technology Letters, 2003, 15, 766-768.	1.3	47
43	10-Gb/s RZ-DPSK Transmitter Using a Saturated SOA as a Power Booster and Limiting Amplifier. IEEE Photonics Technology Letters, 2004, 16, 1582-1584.	1.3	47
44	Colorless tunable dispersion compensator with 400-ps/nm range integrated with a tunable noise filter. IEEE Photonics Technology Letters, 2003, 15, 1258-1260.	1.3	46
45	Monolithic integrated waveguide photodetector. Electronics Letters, 1987, 23, 501-502.	0.5	42
46	Tunable dispersion compensators utilizing higher order mode fibers. IEEE Photonics Technology Letters, 2003, 15, 727-729.	1.3	40
47	RZ-DPSK Transmission Using a 42.7-Gb/s Integrated Balanced Optical Front End With Record Sensitivity. Journal of Lightwave Technology, 2004, 22, 180-185.	2.7	40
48	Wavelength-selective switch with direct few mode fiber integration. Optics Express, 2015, 23, 5723.	1.7	40
49	High-current-gain InGaAs/InP double-heterojunction bipolar transistors grown by metal organic vapor phase epitaxy. IEEE Electron Device Letters, 1988, 9, 253-255.	2.2	39
50	A self-consistent method for complete small-signal parameter extraction of InP-based heterojunction bipolar transistors (HBT's). IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 39-45.	2.9	39
51	Bistable hot electron transport in InP/GalnAs composite collector heterojunction bipolar transistors. Applied Physics Letters, 1992, 61, 70-72.	1.5	38
52	MEMS-Based Channelized Dispersion Compensator With Flat Passbands. Journal of Lightwave Technology, 2004, 22, 101-105.	2.7	38
53	Monolithic InP Dual-Polarization and Dual-Quadrature Coherent Receiver. IEEE Photonics Technology Letters, 2011, 23, 694-696.	1.3	38
54	Y-00 quantum stream cipher overlay in a coherent 256-Gbit/s polarization multiplexed 16-QAM WDM system. Optics Express, 2017, 25, 33338.	1.7	38

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55	Monolithic eight-wavelength demultiplexed receiver for dense WDM applications. IEEE Photonics Technology Letters, 1995, 7, 1342-1344.	1.3	37
56	Design and implementation of wavelength-flexible network nodes. Journal of Lightwave Technology, 2003, 21, 648-663.	2.7	37
57	An automatic 40-wavelength channelized equalizer. IEEE Photonics Technology Letters, 2000, 12, 1195-1197.	1.3	36
58	Measurement of the electron ionization coefficient at low electric fields in InGaAsâ€based heterojunction bipolar transistors. Applied Physics Letters, 1995, 66, 1095-1097.	1.5	35
59	Optical /spl pi//2-DPSK and its tolerance to filtering and polarization-mode dispersion. IEEE Photonics Technology Letters, 2003, 15, 1639-1641.	1.3	35
60	Compact colorless tunable dispersion compensator with 1000-ps/nm tuning range for 40-gb/s data rates. Journal of Lightwave Technology, 2006, 24, 237-241.	2.7	35
61	InP/InGaAs double heterojunction bipolar transistors grown by metalorganic vapor phase epitaxy with sulfur delta doping in the collector region. Applied Physics Letters, 1990, 57, 2841-2843.	1.5	34
62	ISI mitigation using decision feedback loop demonstrated with PMD distorted 10 Gbit/s signals. Electronics Letters, 1999, 35, 2092.	0.5	34
63	Parametric Amplification, Wavelength Conversion, and Phase Conjugation of a 2.048-Tbit/s WDM PDM 16-QAM Signal. Journal of Lightwave Technology, 2015, 33, 1286-1291.	2.7	34
64	Record-High 17.3-bit/s/Hz Spectral Efficiency Transmission over 50 km Using Probabilistically Shaped PDM 4096-QAM. , 2018, , .		34
65	An InP/InGaAs p-i-n/HBT monolithic transimpedance photoreceiver. IEEE Photonics Technology Letters, 1990, 2, 505-506.	1.3	33
66	A 5 Gb/s monolithically integrated lightwave transmitter with 1.5 mu m multiple quantum well laser and HBT driver circuit. IEEE Photonics Technology Letters, 1991, 3, 928-930.	1.3	31
67	High-speed, high-current-gain p-n-p InP/InGaAs heterojunction bipolar transistors. IEEE Electron Device Letters, 1993, 14, 19-21.	2.2	31
68	Reduction of cross-gain modulation in the semiconductor optical amplifier by using wavelength modulated signal. IEEE Photonics Technology Letters, 2000, 12, 1412-1414.	1.3	31
69	Eight-channel p-i-n/HBT monolithic receiver array at 2.5 Gb/s per channel for WDM applications. IEEE Photonics Technology Letters, 1994, 6, 1216-1218.	1.3	30
70	10 Gbit/s based WDM signal transmission over 500 km of NZDSF using semiconductor optical amplifier as the in-line amplifier. Electronics Letters, 2001, 37, 185.	0.5	30
71	Linear and nonlinear performance of 42.7-Gb/s single-polarization RZ-DQPSK format. IEEE Photonics Technology Letters, 2006, 18, 883-885.	1.3	29
72	Integrated InP/GaInAs heterojunction bipolar photoreceiver. Electronics Letters, 1988, 24, 1443.	0.5	29

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73	Measurement and comparison of 1/f noise and g-r noise in silicon homojunction and III-V heterojunction bipolar transistors. IEEE Transactions on Electron Devices, 1996, 43, 784-792.	1.6	28
74	Monolithically integrated 40-gb/s switchable wavelength converter. Journal of Lightwave Technology, 2006, 24, 71-76.	2.7	28
75	Reduction of base-collector capacitance by undercutting the collector and subcollector in GalnAs/InP DHBTs. IEEE Electron Device Letters, 1996, 17, 97-99.	2.2	27
76	Monolithic integrated InGaAsP/InP distributed feedback laser with Yâ€branching waveguide and a monitoring photodetector grown by metalorganic chemical vapor deposition. Applied Physics Letters, 1989, 54, 114-116.	1.5	26
77	Title is missing!. Catalysis Letters, 2000, 66, 201-204.	1.4	26
78	Control of Channel Power Instabilities in Constant-Gain Amplified Transparent Networks Using Scalable Mesh Scheduling. Journal of Lightwave Technology, 2008, 26, 108-113.	2.7	26
79	Scrambled coherent superposition for enhanced optical fiber communication in the nonlinear transmission regime. Optics Express, 2012, 20, 19088.	1.7	26
80	On line rates, information rates, and spectral efficiencies in probabilistically shaped QAM systems. Optics Express, 2018, 26, 9784.	1.7	25
81	Extremely large band gap shifts for MQW structures by selective epitaxy on SiO/sub 2/ masked substrates. IEEE Photonics Technology Letters, 1992, 4, 1006-1009.	1.3	24
82	Investigation of crosstalk performance of eight-channel p-i-n/HBT OEIC photoreceiver array modules. IEEE Photonics Technology Letters, 1996, 8, 682-684.	1.3	24
83	Terabit Transmission at 42.7-Gb/s on 50-GHz Grid Using Hybrid RZ-DQPSK and NRZ-DBPSK Formats Over 16\$,imes,\$80 km SSMF Spans and 4 Bandwidth-Managed ROADMs. Journal of Lightwave Technology, 2008, 26, 85-90.	2.7	24
84	All-optical OFDM transmission of 7 x 5-Gb/s data over 84-km standard single-mode fiber without dispersion compensation and time gating using a photonic-integrated optical DFT device. Optics Express, 2011, 19, 9111.	1.7	24
85	Nonequilibrium effects in quantum well lasers. Applied Physics Letters, 1992, 61, 2383-2385.	1.5	23
86	Flexible waveband optical networking without guard bands using novel 8-skip-0 banding filters. IEEE Photonics Technology Letters, 2005, 17, 579-581.	1.3	23
87	Performance of MLSE Receiver in a Dispersion-Managed Multispan Experiment at 10.7 Gb/s Under Nonlinear Transmission. IEEE Photonics Technology Letters, 2006, 18, 2448-2450.	1.3	23
88	Channel estimation and synchronization for polarization-division multiplexed CO-OFDM using subcarrier/polarization interleaved training symbols. Optics Express, 2011, 19, 16174.	1.7	23
89	Photonic integrated receiver for 40â€Gbitâ^•s transmission. Electronics Letters, 2002, 38, 1196.	0.5	21
90	Low-Voltage High-Speed Travelling Wave InGaAsP–InP Phase Modulator. IEEE Photonics Technology Letters, 2004, 16, 1831-1833.	1.3	21

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91	42.7-Gb/s cost-effective duobinary optical transmitter using a commercial 10-Gb/s Mach-Zehnder modulator with optical filtering. IEEE Photonics Technology Letters, 2005, 17, 917-919.	1.3	21
92	Monolithic DQPSK Receiver in InP With Low Polarization Sensitivity. IEEE Photonics Technology Letters, 2007, 19, 1765-1767.	1.3	21
93	Self-Coherent Systems for Short Reach Transmission. , 2018, , .		21
94	Characteristics of carbon doped InGaAs using carbontetrabromide by metalorganic molecular beam epitaxy. Journal of Crystal Growth, 1995, 148, 1-7.	0.7	20
95	3.08 Tbit/s (77 × 42.7 Gbit/s) WDM transmission over 1200 km fibre with 100 km repeater spacing using dual C- and L-band hybrid Raman/erbium-doped inline amplifiers. Electronics Letters, 2001, 37, 844.	0.5	20
96	Simultaneous Compensation of Polarization Mode Dispersion and Chromatic Dispersion Using Electronic Signal Processing. Journal of Lightwave Technology, 2007, 25, 1735-1741.	2.7	20
97	Photonic Integrated Circuit Based on Hybrid III–V/Silicon Integration. Journal of Lightwave Technology, 2018, 36, 265-273.	2.7	20
98	Degradation of DC characteristics of InGaAs/InP single heterojunction bipolar transistors under electron irradiation. IEEE Transactions on Electron Devices, 1999, 46, 840-849.	1.6	19
99	Transmission Performance of a 485-Gb/s CO-OFDM Superchannel With PDM-16QAM Subcarriers Over ULAF and SSMF-Based Links. IEEE Photonics Technology Letters, 2011, 23, 1400-1402.	1.3	19
100	Fast-Tuning Coherent Burst-Mode Receiver for Metropolitan Networks. IEEE Photonics Technology Letters, 2014, 26, 813-816.	1.3	19
101	Dependence of in-band crosstalk penalty on the signal quality in optical network systems. IEEE Photonics Technology Letters, 2000, 12, 1273-1274.	1.3	18
102	High-gain mode-adapted semiconductor optical amplifier with 12.4-dBm saturation output power at 1550 nm. Journal of Lightwave Technology, 2002, 20, 718-721.	2.7	18
103	A 40-Gb/s integrated balanced optical front end and RZ-DPSK performance. IEEE Photonics Technology Letters, 2003, 15, 1135-1137.	1.3	18
104	A Hybrid MEMS-Waveguide Wavelength Selective Cross Connect. IEEE Photonics Technology Letters, 2004, 16, 99-101.	1.3	18
105	Versatile Integrated PMD Emulation and Compensation Elements. Journal of Lightwave Technology, 2004, 22, 1041-1050.	2.7	18
106	Four-stage Mach-Zehnder-type tunable optical dispersion compensator with single-knob control. IEEE Photonics Technology Letters, 2005, 17, 2637-2639.	1.3	18
107	Chirp-managed laser and MLSE-RX enables transmission over 1200 km at 1550 nm in a DWDM environment in NZDSF at 10 gb/s without any optical dispersion compensation. IEEE Photonics Technology Letters, 2006, 18, 1560-1562.	1.3	18
108	Integrated waveguide p-i-n photodetector by MOVPE regrowth. IEEE Electron Device Letters, 1987, 8, 512-514.	2.2	17

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109	Influence of convection on rod spacing of eutectics. Journal of Crystal Growth, 1990, 106, 294-302.	0.7	17
110	Reduction of Nonlinear Distortion From a Semiconductor Optical Amplifier Using an Optical Equalizer. IEEE Photonics Technology Letters, 2004, 16, 921-923.	1.3	17
111	Hybrid 10/40-G transmission on a 50-GHz grid through 2800 km of SSMF and seven optical add-drops. IEEE Photonics Technology Letters, 2005, 17, 2203-2205.	1.3	17
112	Repeaterless transmission with negative penalty over 285 km at 10 Gb/s using a chirp managed laser. IEEE Photonics Technology Letters, 2005, 17, 2454-2456.	1.3	17
113	Generation of 1024-Tb/s Nyquist-WDM phase-conjugated twin vector waves by a polarization-insensitive optical parametric amplifier for fiber-nonlinearity-tolerant transmission. Optics Express, 2014, 22, 6478.	1.7	17
114	Simple self-optimization of WDM networks based on probabilistic constellation shaping [Invited]. Journal of Optical Communications and Networking, 2020, 12, A82.	3.3	17
115	Influence of convection on lamellar spacing of eutectics. Journal of Crystal Growth, 1986, 76, 485-488.	0.7	16
116	Transmission of 30-GBd polarization-multiplexed probabilistically shaped 4096-QAM over 509-km SSMF. Optics Express, 2019, 27, 29916.	1.7	16
117	A Birth Control Vaccine is on the Horizon for Family Planning. Annals of Medicine, 1993, 25, 207-212.	1.5	15
118	Dense interleaved bidirectional transmission over 5 x 80 km of nonzero dispersion-shifted fiber. IEEE Photonics Technology Letters, 2002, 14, 218-220.	1.3	15
119	Balanced dual photodiodes integrated with a 3 dB directional coupler for coherent lightwave receivers. Electronics Letters, 1988, 24, 1457.	0.5	15
120	A monolithic long wavelength photoreceiver using heterojunction bipolar transistors. IEEE Journal of Quantum Electronics, 1991, 27, 773-777.	1.0	14
121	Direct Detection of 107-Gb/s Polarization-Multiplexed RZ-DQPSK Without Optical Polarization Demultiplexing. IEEE Photonics Technology Letters, 2008, 20, 1878-1880.	1.3	14
122	Energy-efficient 026-Tb/s coherent-optical OFDM transmission using photonic-integrated all-optical discrete Fourier transform. Optics Express, 2012, 20, 896.	1.7	14
123	All-ETDM 80-Gbaud (640-Gb/s) PDM 16-QAM Generation and Coherent Detection. IEEE Photonics Technology Letters, 2012, 24, 1328-1330.	1.3	14
124	Field Demonstration of 100-Gb/s Real-Time Coherent Optical OFDM Detection. Journal of Lightwave Technology, 2015, 33, 1365-1372.	2.7	14
125	Monolithic balanced p-i-n/HBT photoreceiver for coherent optical heterodyne communications. IEEE Photonics Technology Letters, 1991, 3, 537-539.	1.3	13
126	Carbon doping of Ga0.47In0.53As using carbontetrabromide by metalorganic molecular beam epitaxy for InPâ€based heterostructure bipolar transistor devices. Applied Physics Letters, 1995, 67, 2226-2228.	1.5	13

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127	Design, fabrication, and performance of high-speed monolithically integrated InAlAs/InGaAs/InP MSM/HEMT photoreceivers. Journal of Lightwave Technology, 1997, 15, 1871-1879.	2.7	13
128	Tunable Optical Dispersion Compensator With Increased Bandwidth via Connection of a Mach–Zehnder Interferometer to an Arrayed-Waveguide Grating. IEEE Photonics Technology Letters, 2008, 20, 560-562.	1.3	13
129	Applied Constant Gain Amplification in Circulating Loop Experiments. Journal of Lightwave Technology, 2009, 27, 4686-4696.	2.7	13
130	Multi-channel nonlinearity compensation of PDM-QPSK signals in dispersion-managed transmission using dispersion-folded digital backward propagation. Optics Express, 2014, 22, 5859.	1.7	13
131	Supply-Power-Constrained Cable Capacity Maximization Using Multi-Layer Neural Networks. Journal of Lightwave Technology, 2020, 38, 3652-3662.	2.7	13
132	Experimental Demonstration of Widely Tunable Rate/Reach Adaptation From 80 km to 12,000 km Using Probabilistic Constellation Shaping. , 2020, , .		13
133	15 Gbit/s pin/HBT optoelectronic integrated photoreceiver module realised using MOVPE material. Electronics Letters, 1995, 31, 1185.	0.5	12
134	Materials and electrical characteristics of carbon-doped Ga0.47In0.53As using carbontetrabromide by MOMBE for HBT device applications. Journal of Crystal Growth, 1996, 164, 362-370.	0.7	12
135	Electron irradiation effects in polyimide passivated InP/InGaAs single heterojunction bipolar transistors. IEEE Transactions on Nuclear Science, 1999, 46, 1708-1715.	1.2	12
136	2 x 2 wavelength- selective cross connect capable of switching 128 channels in sets of eight. IEEE Photonics Technology Letters, 2002, 14, 387-389.	1.3	12
137	Forward error correction performance in the presence of Rayleigh-dominated transmission noise. IEEE Photonics Technology Letters, 2003, 15, 326-328.	1.3	12
138	Inter-polarization mixers for coherent detection of optical signals. Optics Express, 2018, 26, 18523.	1.7	12
139	Integrated directional couplers with photodetectors by hydride vapour phase epitaxy. Electronics Letters, 1988, 24, 1145.	0.5	11
140	A high speed burst mode optoelectronic integrated circuit photoreceiver using InP/InGaAs HBT's. IEEE Photonics Technology Letters, 1994, 6, 817-818.	1.3	11
141	Optoelectronic system integration using InP-based HBTs for lightwave communications. Solid-State Electronics, 1997, 41, 1413-1417.	0.8	11
142	A tunable interferometrically stable three-section higher order PMD emulator. IEEE Photonics Technology Letters, 2003, 15, 230-232.	1.3	11
143	Polarization-insensitive planar lightwave circuit dual-rate Mach-Zehnder delay-interferometer. IEEE Photonics Technology Letters, 2006, 18, 1708-1710.	1.3	11
144	Digital coherent superposition for performance improvement of spatially multiplexed coherent optical OFDM superchannels. Optics Express, 2012, 20, B595.	1.7	11

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145	Nonlinear temperature dependence of the refractive index of polycrystalline silicon films and the influence of microstructural disorder. Journal of Applied Physics, 1988, 63, 2072-2076.	1.1	10
146	Low-noise performance of monolithically integrated 12-Gb/s p-i-n/HEMT photoreceiver for long-wavelength transmission systems. IEEE Photonics Technology Letters, 1998, 10, 713-715.	1.3	10
147	Enhanced FEC OSNR gains in dispersion-uncompensated 10.7-Gb/s duobinary transmission over 200-km SSMF. IEEE Photonics Technology Letters, 2003, 15, 1162-1164.	1.3	10
148	Differential Microring Modulators for Intensity and Phase Modulation: Theory and Experiments. Journal of Lightwave Technology, 2017, 35, 3116-3124.	2.7	10
149	Cd1-yZnyS-CuxS thin film solar cell with improved ternary compound layer. Journal of Crystal Growth, 1982, 59, 409-413.	0.7	9
150	Improved efficiency of CdZnS thin-film solar cells. Canadian Journal of Physics, 1985, 63, 716-718.	0.4	9
151	10.7â€Gbitâ^•s transmission over >200â€km of standard singlemode fibre using forward error correction and duobinary modulation. Electronics Letters, 2003, 39, 76.	0.5	9
152	Performance of 8-channel OEIC receiver array in 8 x 2.5 Gb/s WDM transmission experiment. IEEE Photonics Technology Letters, 1997, 9, 235-237.	1.3	8
153	High-speed digital and analog performance of low-noise integrated MSM-HEMT photoreceivers. IEEE Photonics Technology Letters, 1997, 9, 991-993.	1.3	8
154	Reconfigurable optoelectronic wavelength translation based on an integrated electroabsorption modulated laser array. IEEE Photonics Technology Letters, 1998, 10, 215-217.	1.3	8
155	Degradation of InGaAs/InP double heterojunction bipolar transistors under electron irradiation. IEEE Transactions on Electron Devices, 1999, 46, 850-858.	1.6	8
156	Higher order PMD distortion mitigation based on optical narrow bandwidth signal filtering. IEEE Photonics Technology Letters, 2002, 14, 558-560.	1.3	8
157	A Multirate Upgradeable 1.6-Tb/s Hierarchical OADM Network. IEEE Photonics Technology Letters, 2004, 16, 317-319.	1.3	8
158	Dispersion-tolerant 10-gb/s duobinary system employing heterodyne detection and MLSE. IEEE Photonics Technology Letters, 2006, 18, 697-699.	1.3	8
159	Large-signal characteristics of InP-based heterojunction bipolar transistors and optoelectronic cascode transimpedance amplifiers. IEEE Transactions on Electron Devices, 1996, 43, 2053-2061.	1.6	7
160	20â€Gbitâ^•s electrical data recovery using decision feedback equaliser supported receiver. Electronics Letters, 2003, 39, 78.	0.5	7
161	Optical duobinary format from demodulation of DPSK using athermal delay interferometer. IEEE Photonics Technology Letters, 2006, 18, 637-639.	1.3	7
162	High Spectral Efficiency Optical Transmission with Probabilistic Constellation Shaping. , 2018, , .		7

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163	Maximizing Fiber Cable Capacity Under A Supply Power Constraint Using Deep Neural Networks. , 2020, , .		7
164	The phototransistor revisited: all-bipolar monolithic photoreceiver at 2 Gb/s with high sensitivity. IEEE Transactions on Electron Devices, 1992, 39, 2677-2678.	1.6	6
165	Performance of eight-channel OEIC p-i-n/HBT receiver array in 8×2.5 Gb/s WDM transmission system. Journal of Lightwave Technology, 1997, 15, 827-832.	2.7	6
166	Integrated optical spectral polarimeter for signal monitoring and feedback to a polarization-mode dispersion compensator. Journal of Optical Networking, 2004, 3, 490.	2.5	6
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