

Colm Browning

List of Publications by Year in descending order

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all docs

80
docs citations

80
times ranked

806
citing authors

#	ARTICLE	IF	CITATIONS
1	Gain-Switched Optical Frequency Combs for Future Mobile Radio-Over-Fiber Millimeter-Wave Systems. Journal of Lightwave Technology, 2018, 36, 4602-4610.	2.7	62
2	Quantum Dash Mode-Locked Lasers for Data Centre Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 53-60.	1.9	58
3	Performance Analysis of Analog IF Over Fiber Fronthaul Link With 4G and 5G Coexistence. Journal of Optical Communications and Networking, 2018, 10, 174.	3.3	44
4	Optical Heterodyne Analog Radio-Over-Fiber Link for Millimeter-Wave Wireless Systems. Journal of Lightwave Technology, 2021, 39, 465-474.	2.7	38
5	Single-section quantum well mode-locked laser for 400 Gb/s SSB-OFDM transmission. Optics Express, 2015, 23, 26442.	1.7	34
6	Chromatic Dispersion-Induced Optical Phase Decorrelation in a 60 GHz OFDM-RoF System. IEEE Photonics Technology Letters, 2014, 26, 2016-2019.	1.3	30
7	25-Gb/s OFDM 60-GHz Radio Over Fiber System Based on a Gain Switched Laser. Journal of Lightwave Technology, 2015, 33, 1635-1643.	2.7	30
8	Experimental Demonstration of a WDM-RoF Based Mobile Fronthaul With f-OFDM Signals by Using Directly Modulated 3s-DBR Laser. Journal of Lightwave Technology, 2019, 37, 3875-3881.	2.7	29
9	A Silicon Photonic Switching Platform for Flexible Converged Centralized-Radio Access Networking. Journal of Lightwave Technology, 2020, 38, 5386-5392.	2.7	29
10	Integrated Two-Section Discrete Mode Laser. IEEE Photonics Journal, 2012, 4, 2085-2094.	1.0	27
11	60 GHz 5G Radio-Over-Fiber Using UF-OFDM With Optical Heterodyning. IEEE Photonics Technology Letters, 2017, 29, 2059-2062.	1.3	27
12	Software-defined control-plane for wavelength selective unicast and multicast of optical data in a silicon photonic platform. Optics Express, 2017, 25, 232.	1.7	26
13	5G wireless and wired convergence in a passive optical network using UF-OFDM and GFDM. , 2017, , .		25
14	WDM-OFDM-PON Based on Compatible SSB Technique Using a Mode Locked Comb Source. IEEE Photonics Technology Letters, 2013, 25, 2058-2061.	1.3	22
15	Characterization of Hybrid InP-TriPleX Photonic Integrated Tunable Lasers Based on Silicon Nitride (Si) Tj ETQq1 1 0.784314 rgBT /Overl IEEE Photonics Journal, 2018, 10, 1-8.	1.0	21
16	28 GHz 5G radio over fibre using UF-OFDM with optical heterodyning. , 2017, , .		19
17	Power efficient optical frequency comb generation using laser gain switching and dual-drive Mach-Zehnder modulator. Optics Express, 2019, 27, 24135.	1.7	19
18	Excursion-Free Dynamic Wavelength Switching in Amplified Optical Networks. Journal of Optical Communications and Networking, 2015, 7, 898.	3.3	16

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19	Performance improvement of 10Gb/s direct modulation OFDM by optical injection using monolithically integrated discrete mode lasers. Optics Express, 2011, 19, B289.	1.7	15
20	Mode Locked Laser Phase Noise Reduction Under Optical Feedback for Coherent DWDM Communication. Journal of Lightwave Technology, 2020, 38, 5708-5715.	2.7	15
21	Dynamic Linewidth Measurement Method via an Optical Quadrature Front End. IEEE Photonics Technology Letters, 2011, 23, 1591-1593.	1.3	14
22	Optical Burst-Switched SSB-OFDM Using a Fast Switching SG-DBR Laser. Journal of Optical Communications and Networking, 2013, 5, 994.	3.3	14
23	OFDM Baud Rate Limitations in an Optical Heterodyne Analog Fronthaul Link using Unlocked Fibre Lasers. , 2019, , .		13
24	28 GBd PAM-8 transmission over a 100 nm range using an InP-Si ₃ N ₄ based integrated dual tunable laser module. Optics Express, 2021, 29, 16563.	1.7	13
25	Tapless and topology agnostic calibration solution for silicon photonic switches. Optics Express, 2018, 26, 32662.	1.7	12
26	Active demultiplexer enabled mmW ARoF transmission of directly modulated 64-QAM UF-OFDM signals. Optics Letters, 2020, 45, 5246.	1.7	11
27	Quantum Dash Passively Mode Locked Laser for Optical Heterodyne Millimeter-Wave Analog Radio-over-Fiber Fronthaul Systems. , 2020, , .		10
28	Programmable Wavelength Locking and Routing in a Silicon-Photonic Interconnection Network Implementation. , 2015, , .		9
29	Converged wired and wireless services in next generation optical access networks. , 2017, , .		8
30	Orthogonal Chirp-Division Multiplexing for Future Converged Optical/Millimeter-Wave Radio Access Networks. IEEE Access, 2022, 10, 3571-3579.	2.6	8
31	Automated Thermal Stabilization of Cascaded Silicon Photonic Ring Resonators for Reconfigurable WDM Applications. , 2017, , .		7
32	Comparison of OFDMA and GFDMA for Next-Generation PONs. Journal of Optical Communications and Networking, 2017, 9, 1064.	3.3	7
33	Phase Modulated Radio-Over-Fiber for Efficient 5G Fronthaul Uplink. Journal of Lightwave Technology, 2019, 37, 5821-5832.	2.7	6
34	Narrow linewidth hybrid InP-TriPleX photonic integrated tunable laser based on silicon nitride micro-ring resonators. , 2018, , .		6
35	CO-OFDM for bandwidth-reconfigurable optical interconnects using gain-switched comb. OSA Continuum, 2020, 3, 2925.	1.8	6
36	Optical Heterodyne Millimeter-Wave Analog Radio-over-Fiber with Photonic Integrated Tunable Lasers. , 2019, , .		6

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37	Increased Bit Rate Direct Modulation AMO-OFDM Transmission by Optical Injection Using Monolithically Integrated Lasers. IEEE Photonics Technology Letters, 2012, 24, 879-881.	1.3	5
38	Reduced OSNR Penalty for Frequency Drift Tolerant Coherent Packet Switched Systems Using Doubly Differential Decoding. , 2014, , .		5
39	Analysis of Phase Noise in a Hybrid Photonic/Millimetre-Wave System for Single and Multi-Carrier Radio Applications. Applied Sciences (Switzerland), 2020, 10, 5800.	1.3	5
40	Compensation of fiber dispersion induced-power fading in reconfigurable millimeter-wave optical networks. Optics Communications, 2020, 476, 126308.	1.0	4
41	Active Demultiplexer-enabled Directly Modulated DMT Transmission Using Optical Frequency Combs for Data Center Interconnects. Journal of Lightwave Technology, 2021, 39, 5468-5473.	2.7	4
42	Investigation of the Performance of GFDMA and OFDMA for Spectrally Efficient Broadband PONs. , 2017, , .		4
43	Single-Lane 54-Gbit/s PAM-4/8 Signal Transmissions Using 10G-Class Directly Modulated Lasers Enabled by Low-Complexity Nonlinear Digital Equalization. IEEE Photonics Journal, 2022, 14, 1-9.	1.0	4
44	Hybrid wired/wireless OFDM-PON with direct modulation of integrated lasers employing optical injection. , 2013, , .		3
45	Quantum Dash Passively Mode-Locked Lasers for Tbit/s Data Interconnects. , 2015, , .		3
46	Reconfigurable WDM-OFDM-PON employing wavelength selective switching with SSB and direct detection optical OFDM. Optics Communications, 2015, 334, 314-318.	1.0	3
47	In-band insertion of RoF LTE Services in OOK based PONs using line coding techniques. Optics Communications, 2015, 356, 488-494.	1.0	3
48	Software-Defined Silicon-Photonics-Based Metro Node for Spatial and Wavelength Superchannel Switching. Journal of Optical Communications and Networking, 2017, 9, 342.	3.3	3
49	Performance analysis of optical front-hauling for 5G Waveforms. , 2017, , .		3
50	256/64-QAM Multicarrier Analog Radio-over-Fiber Modulation using a Linear Differential Drive Silicon Mach-Zehnder Modulator. , 2018, , .		3
51	Corrections to "Characterization of Hybrid InP-TriPlex Photonic Integrated Tunable Lasers Based on Silicon Nitride (Si ₃ N ₄ /SiO ₂) Microring Resonators for Optical Coherent System". IEEE Photonics Journal, 2018, 10, 1-1.	1.0	3
52	56 Gb/s over 1.3 THz frequency range and 400G DWDM PAM-4 transmission with a single quantum dash mode-locked laser source. Optics Express, 2020, 28, 22443.	1.7	3
53	Flexible V-band mmWave Analog-RoF Transmission of 5G and WiGig signals using an InP-SiN Integrated Laser Module. , 2021, , .		3
54	Role of Analogue Radio-over-Fibre Technology Beyond 5G. , 2022, , .		3

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55	Fast Switching Slotted Fabry-Perot Laser for Phase Modulated Transmission Systems. Journal of Lightwave Technology, 2010, , .	2.7	2
56	Direct modulation of a tuneable slotted Fabry-Perot laser with adaptive modulation OFDM. Optics Express, 2012, 20, B399.	1.7	2
57	FBMC for directly modulated passive optical networks (PON). , 2015, , .		2
58	Wired and Wireless Convergence in Future Optical Access Networks " Invited. , 2019, , .		2
59	5G New Radio Compatible Multicarrier Signals Delivery over an Optical/Millimeter-Wave Analog Radio-over-Fiber Fronthaul Link. , 2020, , .		2
60	Flexible Optical and Millimeter-Wave Analog-RoF Transmission with a Silicon-based Integrated Dual Laser Module. , 2021, , .		2
61	Crosstalk and Power Fading in a WDM-RoF Based MFN Using Directly Modulation 3s-DBR Laser. , 2021, , .		2
62	High-speed PAM-4 Signal Transmissions with Directly Modulated Lasers for the Next-Generation Passive Optical Networks. , 2021, , .		2
63	54-Gbit/s PAM-8 Transmission in Next-Generation Passive Optical Networks using Directly Modulated Lasers with Machine Learning Techniques. , 2021, , .		2
64	Injection Locking Properties of an Dual Laser Source for mm-Wave Communications. Journal of Lightwave Technology, 2022, 40, 6685-6692.	2.7	2
65	Wavelength & mm-Wave Flexible Converged Optical Fronthaul With a Low Noise Si-Based Integrated Dual Laser Source. Journal of Lightwave Technology, 2022, 40, 3307-3315.	2.7	2
66	InP-Si3N4 Hybrid Integrated Optical Source for High-purity Mm-wave Communications. , 2022, , .		2
67	Investigation of the effects of laser non-linearity and RIN in direct modulation hybrid wired/wireless PON systems employing an integrated two section laser. Optics Communications, 2015, 338, 496-504.	1.0	1
68	Single Lane 168 Gb/s PAM-8 Short Reach Transmission Using an EAM with Receiver Skew Compensation. , 2018, , .		1
69	Chirp Compensation of Directly Modulated 3s-DBR Laser for WDM-RoF-Based Mobile Fronthaul. IEEE Photonics Technology Letters, 2019, 31, 1171-1174.	1.3	1
70	Performance Improvement of 10Gb/s Direct Modulation OFDM by Optical Injection using Monolithically Integrated Discrete Mode Lasers. , 2011, , .		1
71	Optical Circuit Switching/Multicasting of Burst Mode PAM-4 using a Programmable Silicon Photonic Chip. , 2017, , .		1
72	Flexible Converged Photonic and Radio Systems: A Pathway toward Next Generation Wireless Connectivity. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
73	5G Millimeter-Wave Analog RoF System employing Optical Injection Locking and Direct Modulation of DFB Laser. , 2022, , .		1
74	Performance enhancement of 10Gb/s direct modulation optical OFDM by external optical injection. Optics Communications, 2012, 285, 136-139.	1.0	0
75	Demonstration of a 30 Gbps intensity modulation direct detection OFDM-based passive optical network. , 2015, , .		0
76	Optical Frequency Comb and Active Demultiplexer-enabled 60 GHz mmW ARoF Transmission using Directly Modulated 64-QAM UF-OFDM signals. , 2021, , .		0
77	Performance analysis of multi-band Analog IF over Fibre Fronthaul Link for high capacity wireless networks. , 2019, , .		0
78	Intra-Data Centre Flexible PAM Transmission System Using an Integrated InP-Si ₃ N ₄ Dual Laser Module. IEEE Photonics Journal, 2022, 14, 1-6.	1.0	0
79	Pilot-free Bayesian Filter for Phase Noise Correction of 64QAM CO-OFDM Superchannel. , 2021, , .		0