Laurent Bramerie

List of Publications by Year
in descending order

82 papers	801 citations	516710 16 h-index	580821 25 g-index
82 all docs	82 docs citations	82 times ranked	831 citing authors

#	Article	IF	Citations
1	Frequency Chirp Characterization of Silicon Ring Resonator Modulators. IEEE Photonics Technology Letters, 2022, 34, 653-656.	2.5	1
2	Optical access network interfaces for 5G and beyond [Invited]. Journal of Optical Communications and Networking, 2021, 13, D32.	4.8	27
3	Blind Joint Polarization Demultiplexing and IQ Imbalance Compensation for M-QAM Coherent Optical Communications. Journal of Lightwave Technology, 2020, 38, 4213-4220.	4.6	7
4	Experimental Demonstration of the Tradeoff Between Chromatic Dispersion and Phase Noise Compensation in Optical FBMC/OQAM Communication Systems. Journal of Lightwave Technology, 2019, 37, 4340-4348.	4.6	14
5	DAC-less PAM-4 generation in the O-band using a silicon Mach-Zehnder modulator. Optics Express, 2019, 27, 9740.	3.4	15
6	Silicon Modulators for the Generation of Advanced Modulation Formats. , 2018, , .		0
7	QPSK Modulation in the O-Band Using a Single Dual-Drive Mach–Zehnder Silicon Modulator. Journal of Lightwave Technology, 2018, 36, 3935-3940.	4.6	8
8	New metric for IQ imbalance compensation in optical QPSK coherent systems. Photonic Network Communications, 2018, 36, 326-337.	2.7	1
9	Frequency Drift Reduction in a Four-Laser Array for TWDM PON Applications. IEEE Photonics Technology Letters, 2018, 30, 1345-1348.	2.5	1
10	Advanced modulation format using silicon modulators in the O-band. , 2018, , .		0
11	25-Gb/s Transmission Over 2.5-km SSMF by Silicon MRR Enhanced 1.55- $mu ext{m}$ III-V/SOI DML. IEEE Photonics Technology Letters, 2017, 29, 960-963.	2.5	6
12	Impact of ADC parameters on linear optical sampling systems. Optics Communications, 2017, 402, 362-367.	2.1	3
13	Enhanced Amplitude Noise Tolerance of a Self-Seeded RSOA Laser Using Balanced Detection. IEEE Photonics Technology Letters, 2017, 29, 2219-2221.	2.5	1
14	Mitigation of mode partition noise in quantum-dash Fabry-Perot mode-locked lasers using Manchester encoding and balanced detection. Optics Express, 2017, 25, 16300.	3.4	3
15	25-Gb/s transmission over 2.5-km SSMF by silicon MRR enhanced 1.55-μm III-V/SOI DML. , 2017, , .		0
16	Optical spectral reshaping for directly modulated 4-pulse amplitude modulation signals. , 2017, , .		0
17	Blind Transmitter IQ Imbalance Compensation in M-QAM Optical Coherent Systems. Journal of Optical Communications and Networking, 2017, 9, D42.	4.8	26
18	Frequency noise reduction performance of a feed-forward heterodyne technique: application to an actively mode-locked laser diode. Optics Letters, 2017, 42, 4000.	3.3	7

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19	Directly Modulated and ER Enhanced Hybrid III-V/SOI DFB Laser Operating up to 20 Gb/s for Extended Reach Applications in PONs. , 2017, , .		1
20	Blind adaptive transmitter IQ imbalance compensation in M-QAM optical coherent systems. , 2016, , .		5
21	Silicon-on-Insulator RF Filter Based on Photonic Crystal Functions for Channel Equalization. IEEE Photonics Technology Letters, 2016, 28, 2756-2759.	2.5	4
22	Monolithic Integrated Slot-Blocker for High Datarate Coherent Optical Slot Switched Networks. Journal of Lightwave Technology, 2016, 34, 1807-1814.	4.6	7
23	Bi-harmonic Decomposition-based Maximum Loglikelihood Estimator for Carrier Phase Estimation of Coherent Optical M-QAM. , 2016, , .		0
24	Software-based burst mode reception implementation for time-domain wavelength interleaved networks. , 2015, , .		4
25	Carrier frequency offset estimation based on circular harmonic expansion for optical coherent M-QAM communication systems. , 2015, , .		2
26	Carrier Phase Recovery for Optical Coherent M-QAM Communication Systems Using Harmonic Decompositionbased Maximum Loglikelihood Estimators. , 2015, , .		0
27	Joint simple blind IQ imbalance compensation and adaptive equalization for 16-QAM optical communications. , 2015, , .		6
28	Modulation contrast optimization for wavelength conversion of a 20â€‰â€‰Gbit/s data signal in hybrid InP/SOI photonic crystal nanocavity. Optics Letters, 2014, 39, 2298.	3.3	14
29	Ultrafast all-optical switching and error-free 10 Gbit/s wavelength conversion in hybrid InP-silicon on insulator nanocavities using surface quantum wells. Applied Physics Letters, 2014, 104, .	3.3	42
30	Phase-Preserving Power Limiting Function Using InP on SoI Photonic Crystal Nanocavity. IEEE Photonics Technology Letters, 2014, 26, 1215-1218.	2.5	3
31	IQ imbalance compensation based on maximum SNR estimation in coherent QPSK systems. , 2014, , .		3
32	First experimental demonstration of real-time orchestration in a Multi-head metro network. , 2014, , .		3
33	Performance investigation of 112 Gb/s PDM-QPSK long-haul systems employing discrete mode lasers. , 2014, , .		0
34	Versatile graded-index multi-mode fiber for high capacity single- and multi-mode optical home network. , 2014, , .		0
35	100-Gb/s Wavelength Division Demultiplexing Using a Photonic Crystal Four-Channel Drop Filter. IEEE Photonics Technology Letters, 2013, 25, 813-816.	2.5	19
36	Impact of Sampling-Source Extinction Ratio in Linear Optical Sampling. IEEE Photonics Technology Letters, 2013, 25, 663-666.	2.5	5

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37	BER Evaluation of a Passive SOI WDM Router. IEEE Photonics Technology Letters, 2013, 25, 2285-2288.	2.5	19
38	Efficient second harmonic generation in nanophotonic waveguides for optical signal processing. Applied Physics Letters, 2013, 102, 151114.	3.3	10
39	Allâ€optical timeâ€domain demultiplexing of 170.8ÂGbit/s signal in chalcogenide GeAsSe microstructured fibre. Electronics Letters, 2013, 49, 136-138.	1.0	7
40	Terahertz-bandwidth coherence measurements of a quantum dash laser in passive and active mode-locking operation. Optics Letters, 2012, 37, 4967.	3.3	8
41	Investigation of FWM in dispersion-engineered GaInP photonic crystal waveguides. Optics Express, 2012, 20, 16154.	3.4	3
42	Wavelength conversion in a highly nonlinear chalcogenide microstructured fiber. Optics Letters, 2012, 37, 4576.	3.3	11
43	Wavelength Division Demultiplexing and Crosstalk Assessment of a Photonic Crystal Filter. IEEE Photonics Technology Letters, 2012, 24, 2109-2111.	2.5	3
44	All-Optical 2R Regeneration With a Vertical Microcavity-Based Saturable Absorber. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 870-883.	2.9	13
45	Coupling between PhC membrane and lensed fiber: Simulations and measurements. , 2011, , .		0
46	Quantum-Dash Mode-Locked Laser as a Source for 56-Gb/s DQPSK Modulation in WDM Multicast Applications. IEEE Photonics Technology Letters, 2011, 23, 453-455.	2.5	39
47	Up to 427 GHz All Optical Frequency Down-Conversion Clock Recovery Based on Quantum-Dash Fabry–Perot Mode-Locked Laser. Journal of Lightwave Technology, 2011, 29, 609-615.	4.6	12
48	Efficient four-wave mixing in an ultra-highly nonlinear suspended-core chalcogenide As_38Se_62 fiber. Optics Express, 2011, 19, B653.	3.4	40
49	Enhanced Properties in Single-Walled Carbon Nanotubes Based Saturable Absorber for All Optical Signal Regeneration. Japanese Journal of Applied Physics, 2011, 50, 040206.	1.5	2
50	Enhanced Properties in Single-Walled Carbon Nanotubes Based Saturable Absorber for All Optical Signal Regeneration. Japanese Journal of Applied Physics, 2011, 50, 040206.	1.5	1
51	All-optical phase-preserving amplitude regeneration of 28-Gbaud RZ-DQPSK signals with a microcavity saturable absorber in a recirculating loop experiment. , 2011, , .		1
52	Using optical injection of Fabry-Perot lasers for high-speed access in optical telecommunications. , 2010, , .		6
53	Patterning Effects in All-Optical Clock Recovery: Novel Analysis Using a Clock Remodulation Technique. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1495-1502.	2.9	8
54	Cascadability assessment of a microcavity-saturable-absorber based phase-preserving amplitude regenerator in a DPSK transmission system. , 2010, , .		0

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55	Bit-Error-Rate Assessment of 170-Gb/s Regeneration Using a Saturable Absorber and a Nonlinear-Fiber-Based Power Limiter. IEEE Photonics Technology Letters, 2010, 22, 158-160.	2.5	21
56	Bidirectional 2.5-Gb/s WDM-PON Using FP-LDs Wavelength-Locked by a Multiple-Wavelength Seeding Source Based on a Mode-Locked Laser. IEEE Photonics Technology Letters, 2010, 22, 733-735.	2.5	30
57	Saturable-Absorber-Based Phase-Preserving Amplitude Regeneration of RZ DPSK Signals. IEEE Photonics Technology Letters, 2010, 22, 887-889.	2.5	20
58	Demonstration of Nonlinear Effects in an Ultra-Highly Nonlinear AsSe Suspended-Core Chalcogenide Fiber. IEEE Photonics Technology Letters, 2010, 22, 1844-1846.	2.5	22
59	Quantum-dash mode-locked laser source for wavelength-tunable 56 Gbit/s DQPSK. , 2010, , .		0
60	10GHz demonstration of four-wave-mixing in Photonic Crystal waveguides. , 2010, , .		0
61	Saturable absorber device for high bit rate all-optical regeneration. , 2010, , .		0
62	New saturable absorber device for high bit rate all-optical regeneration. , 2010, , .		0
63	Phase-Preserving Amplitude Regeneration for RZ-DPSK Signals at 42.7 Gbit/s using Saturable Absorber. , 2010, , .		0
64	Simple method to measure laser linewidth using intensity noise spectrum based on Rayleigh Backscattering effect. , 2009, , .		0
65	All-optical 2R regeneration using passive saturable absorption. Optics Communications, 2009, 282, 2768-2773.	2.1	13
66	Self-phase-modulation-based 2R regenerator including pulse compression and offset filtering for 426 Gbit/s RZ-33% transmission systems. Optics Express, 2009, 17, 17747.	3.4	8
67	170 Gbit/s transmission in an erbium-doped waveguide amplifier on silicon. Optics Express, 2009, 17, 22201.	3.4	67
68	All-optical measurements of background, amplitude, and timing jitters for high speed pulse trains or PRBS sequences using autocorrelation function. Optical Fiber Technology, 2008, 14, 84-91.	2.7	16
69	Numerical study of an optical regenerator exploiting self-phase modulation and spectral offset filtering at 40Gbit/s. Optics Communications, 2008, 281, 2252-2264.	2.1	25
70	Analysis of bit rate dependence up to 80Gbit/s of a simple wavelength converter based on XPM in a SOA and a shifted filtering. Optics Communications, 2008, 281, 5731-5738.	2.1	6
71	Bit-Error-Rate Performance Enhancement of All-Optical Clock Recovery at 42.66 Gb/s Using Passive Prefiltering. IEEE Photonics Technology Letters, 2008, 20, 1557-1559.	2.5	5
72	All-optical sampling and spectrographic pulse measurement using cross-absorption modulation in multiple-quantum-well devices. Journal of the Optical Society of America B: Optical Physics, 2008, 25, A133.	2.1	5

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73	HIGHLY SENSITIVE MEASUREMENT TECHNIQUE OF RELATIVE INTENSITY NOISE AND LASER CHARACTERIZATION. Fluctuation and Noise Letters, 2008, 08, L81-L86.	1.5	7
74	Quantum dash actively modelocked Fabry-Perot laser module demonstrated as part of wavelength tunable RZ transmitter. Electronics Letters, 2008, 44, 873.	1.0	5
75	Highly-sensitive measurement technique of relative intensity noise and laser characterization. , 2007, , .		2
76	System characterization of a passive 40 Gb/s All Optical Clock Recovery ahead of the receiver. Optics Express, 2007, 15, 6003.	3.4	6
77	System-Performance Analysis of Optimized Gain-Switched Pulse Source Employed in 40- and 80-Gb/s OTDM Systems. Journal of Lightwave Technology, 2007, 25, 1495-1502.	4.6	9
78	Multi-Data-Rate System Performance of a 40-GHz All-Optical Clock Recovery Based on a Quantum-Dot Fabryâ€"PÃ‰rot Laser. IEEE Photonics Technology Letters, 2007, 19, 1409-1411.	2.5	27
79	Cascadability assessment of a 2R regenerator based on a saturable absorber and a semiconductor optical amplifier in a path switchable recirculating loop. IEEE Photonics Technology Letters, 2006, 18, 1273-1275.	2.5	21
80	Noise reduction in 2R-regeneration technique utilizing self-phase modulation and filtering. Optics Express, 2006, 14, 1737.	3.4	36
81	Relative intensity noise of multiwavelength fibre laser. Electronics Letters, 2004, 40, 724.	1.0	12
82	All-optical regeneration techniques. Annales Des Telecommunications/Annals of Telecommunications, 2003, 58, 1708-1724.	2.5	17