

Laurent Bramerie

List of Publications by Year in descending order

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all docs

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docs citations

82
times ranked

831
citing authors

#	ARTICLE	IF	CITATIONS
1	170 Gbit/s transmission in an erbium-doped waveguide amplifier on silicon. Optics Express, 2009, 17, 22201.	3.4	67
2	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
3	Efficient four-wave mixing in an ultra-highly nonlinear suspended-core chalcogenide As ₃₈ Se ₆₂ fiber. Optics Express, 2011, 19, B653.	3.4	40
4	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
5	Noise reduction in 2R-regeneration technique utilizing self-phase modulation and filtering. Optics Express, 2006, 14, 1737.	3.4	36
6	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
7	Multi-Data-Rate System Performance of a 40-GHz All-Optical Clock Recovery Based on a Quantum-Dot Fabry-Pérot Laser. IEEE Photonics Technology Letters, 2007, 19, 1409-1411.	2.5	27
8	Optical access network interfaces for 5G and beyond [Invited]. Journal of Optical Communications and Networking, 2021, 13, D32.	4.8	27
9	Blind Transmitter IQ Imbalance Compensation in M-QAM Optical Coherent Systems. Journal of Optical Communications and Networking, 2017, 9, D42.	4.8	26
10	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
11	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
12	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
13	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
14	Saturable-Absorber-Based Phase-Preserving Amplitude Regeneration of RZ DPSK Signals. IEEE Photonics Technology Letters, 2010, 22, 887-889.	2.5	20
15	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
16	BER Evaluation of a Passive SOI WDM Router. IEEE Photonics Technology Letters, 2013, 25, 2285-2288.	2.5	19
17	All-optical regeneration techniques. Annales Des Telecommunications/Annals of Telecommunications, 2003, 58, 1708-1724.	2.5	17
18	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

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19	DAC-less PAM-4 generation in the O-band using a silicon Mach-Zehnder modulator. Optics Express, 2019, 27, 9740.	3.4	15
20	Modulation contrast optimization for wavelength conversion of a 20 Gbit/s data signal in hybrid InP/SOI photonic crystal nanocavity. Optics Letters, 2014, 39, 2298.	3.3	14
21	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
22	All-optical 2R regeneration using passive saturable absorption. Optics Communications, 2009, 282, 2768-2773.	2.1	13
23	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
24	Relative intensity noise of multiwavelength fibre laser. Electronics Letters, 2004, 40, 724.	1.0	12
25	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
26	Wavelength conversion in a highly nonlinear chalcogenide microstructured fiber. Optics Letters, 2012, 37, 4576.	3.3	11
27	Efficient second harmonic generation in nanophotonic waveguides for optical signal processing. Applied Physics Letters, 2013, 102, 151114.	3.3	10
28	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
29	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
30	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
31	Terahertz-bandwidth coherence measurements of a quantum dash laser in passive and active mode-locking operation. Optics Letters, 2012, 37, 4967.	3.3	8
32	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
33	HIGHLY SENSITIVE MEASUREMENT TECHNIQUE OF RELATIVE INTENSITY NOISE AND LASER CHARACTERIZATION. Fluctuation and Noise Letters, 2008, 08, L81-L86.	1.5	7
34	All-optical time-domain demultiplexing of 170.8 Gbit/s signal in chalcogenide GeAsSe microstructured fibre. Electronics Letters, 2013, 49, 136-138.	1.0	7
35	Monolithic Integrated Slot-Blocker for High Data-rate Coherent Optical Slot Switched Networks. Journal of Lightwave Technology, 2016, 34, 1807-1814.	4.6	7
36	Blind Joint Polarization Demultiplexing and IQ Imbalance Compensation for 16-QAM Coherent Optical Communications. Journal of Lightwave Technology, 2020, 38, 4213-4220.	4.6	7

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37	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
38	System characterization of a passive 40 Gb/s All Optical Clock Recovery ahead of the receiver. Optics Express, 2007, 15, 6003.	3.4	6
39	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
40	Using optical injection of Fabry-Perot lasers for high-speed access in optical telecommunications. , 2010, , .		6
41	Joint simple blind IQ imbalance compensation and adaptive equalization for 16-QAM optical communications. , 2015, , .		6
42	25-Gb/s Transmission Over 2.5-km SSMF by Silicon MRR Enhanced 1.55- μm III-V/SOI DML. IEEE Photonics Technology Letters, 2017, 29, 960-963.	2.5	6
43	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
44	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
45	Quantum dash actively modelocked Fabry-Perot laser module demonstrated as part of wavelength tunable RZ transmitter. Electronics Letters, 2008, 44, 873.	1.0	5
46	Impact of Sampling-Source Extinction Ratio in Linear Optical Sampling. IEEE Photonics Technology Letters, 2013, 25, 663-666.	2.5	5
47	Blind adaptive transmitter IQ imbalance compensation in M-QAM optical coherent systems. , 2016, , .		5
48	Software-based burst mode reception implementation for time-domain wavelength interleaved networks. , 2015, , .		4
49	Silicon-on-Insulator RF Filter Based on Photonic Crystal Functions for Channel Equalization. IEEE Photonics Technology Letters, 2016, 28, 2756-2759.	2.5	4
50	Investigation of FWM in dispersion-engineered GaInP photonic crystal waveguides. Optics Express, 2012, 20, 16154.	3.4	3
51	Wavelength Division Demultiplexing and Crosstalk Assessment of a Photonic Crystal Filter. IEEE Photonics Technology Letters, 2012, 24, 2109-2111.	2.5	3
52	Phase-Preserving Power Limiting Function Using InP on Sol Photonic Crystal Nanocavity. IEEE Photonics Technology Letters, 2014, 26, 1215-1218.	2.5	3
53	IQ imbalance compensation based on maximum SNR estimation in coherent QPSK systems. , 2014, , .		3
54	First experimental demonstration of real-time orchestration in a Multi-head metro network. , 2014, , .		3

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55	Impact of ADC parameters on linear optical sampling systems. Optics Communications, 2017, 402, 362-367.	2.1	3
56	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
57	Highly-sensitive measurement technique of relative intensity noise and laser characterization. , 2007, , .		2
58	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
59	Carrier frequency offset estimation based on circular harmonic expansion for optical coherent M-QAM communication systems. , 2015, , .		2
60	Enhanced Amplitude Noise Tolerance of a Self-Seeded RSOA Laser Using Balanced Detection. IEEE Photonics Technology Letters, 2017, 29, 2219-2221.	2.5	1
61	New metric for IQ imbalance compensation in optical QPSK coherent systems. Photonic Network Communications, 2018, 36, 326-337.	2.7	1
62	Frequency Drift Reduction in a Four-Laser Array for TWDM PON Applications. IEEE Photonics Technology Letters, 2018, 30, 1345-1348.	2.5	1
63	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
64	All-optical phase-preserving amplitude regeneration of 28-Gbaud RZ-DQPSK signals with a microcavity saturable absorber in a recirculating loop experiment. , 2011, , .		1
65	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
66	Frequency Chirp Characterization of Silicon Ring Resonator Modulators. IEEE Photonics Technology Letters, 2022, 34, 653-656.	2.5	1
67	Simple method to measure laser linewidth using intensity noise spectrum based on Rayleigh Backscattering effect. , 2009, , .		0
68	Cascadability assessment of a microcavity-saturable-absorber based phase-preserving amplitude regenerator in a DPSK transmission system. , 2010, , .		0
69	Quantum-dash mode-locked laser source for wavelength-tunable 56 Gbit/s DQPSK. , 2010, , .		0
70	10GHz demonstration of four-wave-mixing in Photonic Crystal waveguides. , 2010, , .		0
71	Saturable absorber device for high bit rate all-optical regeneration. , 2010, , .		0
72	Coupling between PhC membrane and lensed fiber: Simulations and measurements. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
73	Performance investigation of 112 Gb/s PDM-QPSK long-haul systems employing discrete mode lasers. , 2014, , .		0
74	Versatile graded-index multi-mode fiber for high capacity single- and multi-mode optical home network. , 2014, , .		0
75	Carrier Phase Recovery for Optical Coherent M-QAM Communication Systems Using Harmonic Decompositionbased Maximum Loglikelihood Estimators. , 2015, , .		0
76	25-Gb/s transmission over 2.5-km SSMF by silicon MRR enhanced 1.55- μ m III-V/SOI DML. , 2017, , .		0
77	Optical spectral reshaping for directly modulated 4-pulse amplitude modulation signals. , 2017, , .		0
78	Silicon Modulators for the Generation of Advanced Modulation Formats. , 2018, , .		0
79	New saturable absorber device for high bit rate all-optical regeneration. , 2010, , .		0
80	Phase-Preserving Amplitude Regeneration for RZ-DPSK Signals at 42.7 Gbit/s using Saturable Absorber. , 2010, , .		0
81	Bi-harmonic Decomposition-based Maximum Loglikelihood Estimator for Carrier Phase Estimation of Coherent Optical M-QAM. , 2016, , .		0
82	Advanced modulation format using silicon modulators in the O-band. , 2018, , .		0