

# Jeremie Renaudier

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,665  
citations

304743

22  
h-index

289244

40  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1224  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of Power Efficient Spatial Division Multiplexed Submarine Cables Using Adaptive Transponders and Machine Learning. Journal of Lightwave Technology, 2022, 40, 1597-1604.	4.6	3
2	160-GSa/s-and-Beyond 108-GHz-Bandwidth Over-2-V <sub>ppd</sub> Output-Swing 0.5-Î¼m InP DHBT 2:1 AMUX-Driver for Next-Generation Optical Communications. IEEE Microwave and Wireless Components Letters, 2022, 32, 752-755.	3.2	10
3	Generation and transmission of 160-Gbaud QPSK Coherent Signals using a Dual-Drive Plasmonic-Organic Hybrid I/Q modulator on Silicon Photonics. , 2022, , .		1
4	Advanced Fiber Sensing Leveraging Coherent Systems Technology for Smart Network Monitoring. , 2022, , .		2
5	Vibration Detection and Localization in Buried Fiber Cable after 80km of SSMF using Digital Coherent Sensing System with Co-Propagating 600Gb/s WDM Channels. , 2022, , .		4
6	Identification of Rayleigh fading induced phase artifacts in coherent differential Î•-OTDR. Optics Letters, 2021, 46, 2754.	3.3	8
7	A fully digital MIMO-OFDM scheme for fading mitigation in coherent Î•-OTDR. Optics Express, 2021, 29, 35149.	3.4	5
8	High-Speed Long-Distance Unrepeated Transmission. , 2021, , .		1
9	Experimental Characterization of Nonlinear Distortions of Semiconductor Optical Amplifiers in the WDM Regime. Journal of Lightwave Technology, 2020, 38, 509-513.	4.6	11
10	103 nm Ultra-Wideband Hybrid Raman/SOA Transmission Over 3 Å– 100 km SSMF. Journal of Lightwave Technology, 2020, 38, 504-508.	4.6	20
11	High-Speed and Ultra-Wideband Devices for Coherent Transmission: Challenges and Opportunities. , 2020, , .		3
12	Detection-Localization-Identification of Vibrations Over Long Distance SSMF With Coherent \$Delta phi\$-OTDR. Journal of Lightwave Technology, 2020, 38, 3089-3095.	4.6	14
13	Ultra-High-Speed 2:1 Digital Selector and Plasmonic Modulator IM/DD Transmitter Operating at 222ÅGBaud for Intra-Datacenter Applications. Journal of Lightwave Technology, 2020, 38, 2734-2739.	4.6	45
14	Recent Advances in 100+nm Ultra-Wideband Fiber-Optic Transmission Systems Using Semiconductor Optical Amplifiers. Journal of Lightwave Technology, 2020, 38, 1071-1079.	4.6	33
15	Design Optimisation of Power-Efficient Submarine Line through Machine Learning. , 2020, , .		11
16	Introducing coherent MIMO sensing, a fading-resilient, polarization-independent approach to Î•-OTDR. Optics Express, 2020, 28, 21081.	3.4	28
17	Experimental Prediction and Design of Ultra-Wideband Raman Amplifiers Using Neural Networks. , 2020, , .		12
18	Machine Learning Assisted Hybrid EDFA-Raman Amplifier Design for C+L Bands. , 2020, , .		6

#	ARTICLE	IF	CITATIONS
19	Scaling Capacity Growth of Fiber-Optic Transmission Systems Using 100+nm Ultra-Wideband Semiconductor Optical Amplifiers. Journal of Lightwave Technology, 2019, 37, 1831-1838.	4.6	26
20	High Sensitivity $\varphi$ -OTDR Over Long Distance With Polarization Multiplexed Codes. IEEE Photonics Technology Letters, 2019, 31, 1654-1657.	2.5	23
21	Ultra-Wideband Transmission Systems Based on Semiconductor Optical Amplifiers. , 2019, , .		0
22	Sub-Baudrate Sampling at DAC and ADC: Toward 200G per Lane IM/DD Systems. Journal of Lightwave Technology, 2019, 37, 1536-1542.	4.6	16
23	Multiterabit Transmission Over OM2 Multimode Fiber With Wavelength and Mode Group Multiplexing and Direct Detection. Journal of Lightwave Technology, 2018, 36, 355-360.	4.6	57
24	25.4-Tb/s Transmission Over Transpacific Distances Using Truncated Probabilistically Shaped PDM-64QAM. Journal of Lightwave Technology, 2018, 36, 1354-1361.	4.6	20
25	Advanced C+L-Band Transoceanic Transmission Systems Based on Probabilistically Shaped PDM-64QAM. Journal of Lightwave Technology, 2017, 35, 1291-1299.	4.6	117
26	Single Carrier 168-Gb/s Line-Rate PAM Direct Detection Transmission Using High-Speed Selector Power DAC for Optical Interconnects. Journal of Lightwave Technology, 2016, 34, 1593-1598.	4.6	30
27	Spectrally-Efficient 400-Gb/s Single Carrier Transport Over 7 200 km. Journal of Lightwave Technology, 2015, 33, 1402-1407.	4.6	28
28	Spectrally Efficient 1-Tb/s Transceivers for Long-Haul Optical Systems. Journal of Lightwave Technology, 2015, 33, 1452-1458.	4.6	26
29	Blind Receiver Skew Compensation and Estimation for Long-Haul Non-Dispersion Managed Systems Using Adaptive Equalizer. Journal of Lightwave Technology, 2015, 33, 1315-1318.	4.6	72
30	Throughput Comparison Between 50-GHz and 375-GHz Grid Transparent Networks [Invited]. Journal of Optical Communications and Networking, 2015, 7, A293.	4.8	47
31	100 Gb/s and Beyond for Submarine Systems. Journal of Lightwave Technology, 2012, 30, 3880-3887.	4.6	13
32	Overlaying 10 Gb/s Legacy Optical Networks With 40 and 100 Gb/s Coherent Terminals. Journal of Lightwave Technology, 2012, 30, 2367-2375.	4.6	14
33	Generation and Detection of 28 Cbaud Polarization Switched-QPSK in WDM Long-Haul Transmission Systems. Journal of Lightwave Technology, 2012, 30, 1312-1318.	4.6	22
34	Intra- Versus Inter-Channel PMD in Linearly Compensated Coherent PDM-PSK Nonlinear Transmissions. Journal of Lightwave Technology, 2011, 29, 1691-1700.	4.6	17
35	Long-haul WDM transmission of 448â€¦Gbit/s polarisation-division multiplexed 16-ary quadrature amplitude modulation using coherent detection. Electronics Letters, 2011, 47, 973.	1.0	14
36	Transmission of 100Gb/s Coherent PDM-QPSK over 16x100km of standard fiber with allerbium amplifiers. Optics Express, 2009, 17, 5112.	3.4	28

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37	PDM-QPSK: on the system benefits arising from temporally interleaving polarization tributaries at 100Gb/s. Optics Express, 2009, 17, 19902.	3.4	8
38	Transmission of 16.4-bit/s Capacity Over 2550 km Using PDM QPSK Modulation Format and Coherent Receiver. Journal of Lightwave Technology, 2009, 27, 153-157.	4.6	92
39	Investigation on WDM Nonlinear Impairments Arising From the Insertion of 100-Gb/s Coherent PDM-QPSK Over Legacy Optical Networks. IEEE Photonics Technology Letters, 2009, 21, 1816-1818.	2.5	19
40	Impact of Temporal Interleaving of Polarization Tributaries Onto 100-Gb/s Coherent Transmission Systems With RZ Pulse Carving. IEEE Photonics Technology Letters, 2008, 20, 2036-2038.	2.5	14
41	Nonlinearity Limitations When Mixing 40-Gb/s Coherent PDM-QPSK Channels With Preexisting 10-Gb/s NRZ Channels. IEEE Photonics Technology Letters, 2008, 20, 1314-1316.	2.5	22
42	Linear Fiber Impairments Mitigation of 40-Gbit/s Polarization-Multiplexed QPSK by Digital Processing in a Coherent Receiver. Journal of Lightwave Technology, 2008, 26, 36-42.	4.6	92
43	Polarization-Insensitive Low Timing Jitter and Highly Optical Noise Tolerant All-Optical 40-GHz Clock Recovery Using a Bulk and a Quantum-Dots-Based Self-Pulsating Laser Cascade. Journal of Lightwave Technology, 2007, 25, 170-176.	4.6	22
44	Phase Correlation and Linewidth Reduction of 40 GHz Self-Pulsation in Distributed Bragg Reflector Semiconductor Lasers. IEEE Journal of Quantum Electronics, 2007, 43, 147-156.	1.9	58
45	Multi-Data-Rate System Performance of a 40-GHz All-Optical Clock Recovery Based on a Quantum-Dot Fabry-Perot Laser. IEEE Photonics Technology Letters, 2007, 19, 1409-1411.	2.5	27
46	Recent Advances on InAs/InP Quantum Dash Based Semiconductor Lasers and Optical Amplifiers Operating at 1.55 $\mu\text{m}$ . IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 111-124.	2.9	372
47	Standard-compliant jitter transfer function of all-optical clock recovery at 40 GHz based on a quantum-dot self-pulsating semiconductor laser. IEEE Photonics Technology Letters, 2006, 18, 1249-1251.	2.5	27
48	Phase and amplitude characterization of a 40-GHz self-pulsating DBR laser based on autocorrelation analysis. Journal of Lightwave Technology, 2006, 24, 970-975.	4.6	7
49	45-GHz self-pulsation with narrow linewidth in quantum dot Fabry-Perot semiconductor lasers at 1.5 $\mu\text{m}$ . Electronics Letters, 2005, 41, 1007.	1.0	72
50	Phase correlation between longitudinal modes in semiconductor self-pulsating DBR lasers. IEEE Photonics Technology Letters, 2005, 17, 741-743.	2.5	32
51	8 Tb/s long haul transmission over low dispersion fibers using 100 Gb/s PDM-QPSK channels paired with coherent detection. Bell Labs Technical Journal, 0, 14, 27-45.	0.7	14