Robert Emmerich

List of Publications by Year
in descending order

22 papers	216 citations	1478505 6 h-index	1588992 8 g-index
22 all docs	22 docs citations	22 times ranked	228 citing authors

#	Article	IF	Citations
1	PON transceiver technologies for â‰¥50â€‰â€‰Gbits/s per Î»: Alamouti coding and heterodyne detection [Invited]. Journal of Optical Communications and Networking, 2020, 12, A162.	4.8	27
2	32 GBd 16QAM Wireless Transmission in the 300 GHz Band Using a PIN Diode for THz Upconversion. , 2019, , .		27
3	Enabling S-C-L-Band Systems With Standard C-Band Modulator and Coherent Receiver Using Coherent System Identification and Nonlinear Predistortion. Journal of Lightwave Technology, 2022, 40, 1360-1368.	4.6	27
4	Disaggregated edge-enabled C+L-band filterless metro networks. Journal of Optical Communications and Networking, 2020, 12, 2.	4.8	21
5	Improving Achievable Information Rates of 64-GBd PDM-64QAM by Nonlinear Transmitter Predistortion. , 2018, , .		16
6	DSP-Based Link Tomography for Amplifier Gain Estimation and Anomaly Detection in C+L-Band Systems. Journal of Lightwave Technology, 2022, 40, 3395-3405.	4.6	13
7	Four-Dimensional Trellis Coded Modulation for Flexible Optical Communications. Journal of Lightwave Technology, 2017, 35, 152-158.	4.6	12
8	Distributed Aggregation and Reception of a 400-Gb/s Net Rate Superchannel in a Single-Photodiode 110-GHz Kramers-Kronig Receiver. , 2018, , .		11
9	Bayesian Optimization for Nonlinear System Identification and Pre-Distortion in Cognitive Transmitters. Journal of Lightwave Technology, 2021, 39, 5008-5020.	4.6	10
10	Experimental analysis of nonlinear interference noise in heterogeneous flex-grid WDM transmission. , 2015, , .		8
11	OpenConfig Control of 100G/400G Filterless Metro Networks with configurable Modulation Format and FEC. , 2019, , .		7
12	Filterless Optical WDM Metro Networks Exploiting C+L Band. , 2018, , .		6
13	Colorless C-Band WDM System Enabled by Coherent Reception of 56-GBd PDM-16QAM Using an High-Bandwidth ICR with TIAs. , 2017, , .		6
14	Characterization, Monitoring, and Mitigation of the I/Q Imbalance in Standard C-Band Transceivers in Multi-Band Systems. Journal of Lightwave Technology, 2022, 40, 3470-3478.	4.6	5
15	Enabling S-C-L-Band Systems with Standard C-Band Modulator and Coherent Receiver using Nonlinear Predistortion. , 2021, , .		4
16	Single-step Perturbation-based Nonlinearity Compensation of Intra- and Inter-Subcarrier Nonlinear Interference. , 2017, , .		3
17	Improved Perturbation-Based Fiber Nonlinearity Compensation. , 2018, , .		3
18	400-Gb/s Single-Photodiode Polarization-Agnostic Kramersâ€“Kronig Reception of Distributedly Aggregated Superchannel. Journal of Lightwave Technology, 2019, 37, 156-162.	4.6	3

#	Article	IF	Citations
19	Characterization and Linearization of High Bandwidth Integrated Optical Transmitter Modules. , 2020, , .		3
20	64-GBd DP-Bipolar-8ASK Transmission over 120 km SSMF Employing a Monolithically Integrated Driver and MZM in 0.25-Âµm SiGe BiCMOS Technology. , 2019, , .		2
21	An Autonomous Identification and Pre-distortion Scheme for Cognitive Transceivers using Bayesian Optimization. , 2020, , .		1
22	Impact of Wavelength-Dependent I/Q Imbalances of Standard C-Band Transceivers in Rate-Adaptive Multiband Systems. , 2021, , .		1