

Sebastian Randel

List of Publications by Year in descending order

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60
papers

4,242
citations

186265

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276875

41
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61
all docs

61
docs citations

61
times ranked

3252
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Arbitrary Waveform Measurement (OAWM) Using Silicon Photonic Slicing Filters. Journal of Lightwave Technology, 2022, 40, 1705-1717.	4.6	11
2	Ultra-fast optical ranging using quantum-dash mode-locked laser diodes. Scientific Reports, 2022, 12, 1076.	3.3	5
3	Colorless Coherent TDM-PON Based on a Frequency-Comb Laser. Journal of Lightwave Technology, 2022, 40, 4287-4299.	4.6	4
4	Slice-Less Optical Arbitrary Waveform Measurement (OAWM) in a Bandwidth of More Than 600 GHz. , 2022, , .		0
5	Hybrid electro-optic modulator combining silicon photonic slot waveguides with high-k radio-frequency slotlines. Optica, 2021, 8, 511.	9.3	41
6	Hybrid external-cavity lasers (ECL) using photonic wire bonds as coupling elements. Scientific Reports, 2021, 11, 16426.	3.3	19
7	DSP Enabled Optical Detection Techniques for PON. Journal of Lightwave Technology, 2020, 38, 684-695.	4.6	18
8	Hybrid multi-chip assembly of optical communication engines by in situ 3D nano-lithography. Light: Science and Applications, 2020, 9, 71.	16.6	77
9	Performance of chip-scale optical frequency comb generators in coherent WDM communications. Optics Express, 2020, 28, 12897.	3.4	35
10	Verified equivalent-circuit model for slot-waveguide modulators. Optics Express, 2020, 28, 12951.	3.4	17
11	Silicon-organic hybrid (SOH) Mach-Zehnder modulators for 100 GBd PAM4 signaling with sub-1â€¦dB phase-shifter loss. Optics Express, 2020, 28, 24693.	3.4	47
12	32QAM WDM transmission at 12 Tbit/s using a quantum-dash mode-locked laser diode (QD-MLLD) with external-cavity feedback. Optics Express, 2020, 28, 23594.	3.4	18
13	InP/Silicon Hybrid External-Cavity Lasers (ECL) Using Photonic Wirebonds as Coupling Elements. , 2020, , .		2
14	SOH Mach-Zehnder Modulators for 100 GBd PAM4 Signaling With Sub-1 dB Phase-Shifter Loss. , 2020, , .		10
15	A New Approach to Nonuniform Sampling of Bounded Atmospheric Turbulence Spectra. , 2020, , .		1
16	Complexity Analysis of the Kramersâ€™Kronig Receiver. Journal of Lightwave Technology, 2019, 37, 4295-4307.	4.6	29
17	Photonic-integrated circuits with non-planar topologies realized by 3D-printed waveguide overpasses. Optics Express, 2019, 27, 17402.	3.4	23
18	Comb-based WDM transmission at 10 Tbit/s using a DC-driven quantum-dash mode-locked laser diode. Optics Express, 2019, 27, 31110.	3.4	30

#	ARTICLE	IF	CITATIONS
19	Coherent WDM transmission using quantum-dash mode-locked laser diodes as multi-wavelength source and local oscillator. Optics Express, 2019, 27, 31164.	3.4	35
20	Wireless THz link with optoelectronic transmitter and receiver. Optica, 2019, 6, 1063.	9.3	79
21	Silicon-Organic Hybrid (SOH) Mach-Zehnder Modulators for 100 Gbit/s on-off Keying. Scientific Reports, 2018, 8, 2598.	3.3	81
22	100 GBd Intensity Modulation and Direct Detection With an InP-Based Monolithic DFB Laser Mach-Zehnder Modulator. Journal of Lightwave Technology, 2018, 36, 97-102.	4.6	75
23	110-m THz Wireless Transmission at 100 Gbit/s Using a Kramers-Kronig Schottky Barrier Diode Receiver. , 2018, , .		20
24	Ultra-high electro-optic activity demonstrated in a silicon-organic hybrid modulator. Optica, 2018, 5, 739.	9.3	131
25	Hybrid integration of silicon photonics circuits and InP lasers by photonic wire bonding. Optica, 2018, 5, 876.	9.3	159
26	Demonstration of long-term thermally stable silicon-organic hybrid modulators at 85 Å°C. Optics Express, 2018, 26, 27955.	3.4	32
27	Electrically packaged silicon-organic hybrid (SOH) I/Q-modulator for 64 GBd operation. Optics Express, 2018, 26, 34580.	3.4	12
28	Transmission of 80-GBd 16-QAM over 300 km and Kramers-Kronig Reception Using a Low-Complexity FIR Hilbert Filter Approximation. , 2018, , .		22
29	All-Electronic 100-GHz Bandwidth Digital-to-Analog Converter Generating PAM Signals up to 190 GBaud. Journal of Lightwave Technology, 2017, 35, 411-417.	4.6	83
30	Fiber nonlinearity mitigation of WDM-PDM QPSK/16-QAM signals using fiber-optic parametric amplifiers based multiple optical phase conjugations. Optics Express, 2017, 25, 1618.	3.4	49
31	Silicon-organic hybrid (SOH) modulators for intensity-modulation / direct-detection links with line rates of up to 120 Gbit/s. Optics Express, 2017, 25, 23784.	3.4	40
32	100-Gb/s discrete-multitone transmission over 80-km SSMF using single-sideband modulation with novel interference-cancellation scheme. , 2015, , .		72
33	Parametric Amplification, Wavelength Conversion, and Phase Conjugation of a 2.048-Tbit/s WDM PDM 16-QAM Signal. Journal of Lightwave Technology, 2015, 33, 1286-1291.	4.6	34
34	Single-VCSEL 100-Gb/s Short-Reach System Using Discrete Multi-Tone Modulation and Direct Detection. , 2015, , .		53
35	Mode-dependent loss, gain, and noise in MIMO-SDM systems. , 2014, , .		21
36	High Symbol Rate Coherent Optical Transmission Systems: 80 and 107 Gbaud. Journal of Lightwave Technology, 2014, 32, 824-831.	4.6	70

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37	Spatial Multiplexing Using Multiple-Input Multiple-Output Signal Processing. , 2013, , 433-490.		11
38	Characterization of Space-Division Multiplexing Systems using a Swept-Wavelength Interferometer. , 2013, , .		61
39	Space-division multiplexed transmission over few-mode- and coupled-core fiber based on coherent MIMO digital signal processing. , 2012, , .		5
40	Digital Signal Processing in Spatially Multiplexed Coherent Communications. , 2012, , .		4
41	Adaptive MIMO Signal Processing for Mode-division Multiplexing. , 2012, , .		20
42	Crosstalk Tolerance of Spatially Multiplexed MIMO Systems. , 2012, , .		4
43	All-ETDM 80-Gbaud (640-Gb/s) PDM 16-QAM Generation and Coherent Detection. IEEE Photonics Technology Letters, 2012, 24, 1328-1330.	2.5	14
44	On the Use of Delay-Decorrelated I/Q Test Sequences for QPSK and QAM Signals. IEEE Photonics Technology Letters, 2012, 24, 1000-1002.	2.5	14
45	Mode-Division Multiplexing Over 96 km of Few-Mode Fiber Using Coherent 6 \times imes,6 MIMO Processing. Journal of Lightwave Technology, 2012, 30, 521-531.	4.6	914
46	6 \times —56-Gb/s mode-division multiplexed transmission over 33-km few-mode fiber enabled by 6 \times —6 MIMO equalization. Optics Express, 2011, 19, 16697.	3.4	490
47	Spectrally efficient polymer optical fiber transmission. Proceedings of SPIE, 2011, , .	0.8	5
48	Advanced Modulation Schemes for Short-Range Optical Communications. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1280-1289.	2.9	146
49	Gigabit Ethernet transmission over polymer optical fiber. , 2010, , .		0
50	Advances in polymer optical fiber transmission. , 2010, , .		1
51	100GbE: QPSK versus OFDM. Optical Fiber Technology, 2009, 15, 407-413.	2.7	48
52	Impact of LED Nonlinearity on Discrete Multitone Modulation. Journal of Optical Communications and Networking, 2009, 1, 439.	4.8	96
53	PAM-DMT for Intensity-Modulated and Direct-Detection Optical Communication Systems. IEEE Photonics Technology Letters, 2009, 21, 1749-1751.	2.5	200
54	Plastic optical fiber technology for reliable home networking: overview and results of the EU project pof-all. IEEE Communications Magazine, 2009, 47, 58-68.	6.1	79

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55	Spectrally Efficient Compatible Single-Sideband Modulation for OFDM Transmission With Direct Detection. IEEE Photonics Technology Letters, 2008, 20, 670-672.	2.5	121
56	Broadband Information Broadcasting Using LED-Based Interior Lighting. Journal of Lightwave Technology, 2008, 26, 3883-3892.	4.6	433
57	High-speed transmission over multimode fiber using discrete multitone modulation [Invited]. Journal of Optical Networking, 2008, 7, 183.	2.5	69
58	Optical OFDM, a hype or is it for real?. , 2008, , .		26
59	The influence of the dispersion map in coherent optical OFDM transmission systems. , 2008, , .		20
60	Analysis of electronic dispersion compensation for step-index polymer optical fibre by use of an advanced simulation model. European Transactions on Telecommunications, 2007, 18, 881-886.	1.2	6