

# Wolfgang Freude

## List of Publications by Year in descending order

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447  
papers

16,644  
citations

24978

57  
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17055

122  
g-index

452  
all docs

452  
docs citations

452  
times ranked

10807  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wireless sub-THz communication system with high data rate. Nature Photonics, 2013, 7, 977-981.	15.6	1,137
2	Nonlinear silicon photonics. Nature Photonics, 2010, 4, 535-544.	15.6	1,073
3	Microresonator-based solitons for massively parallel coherent optical communications. Nature, 2017, 546, 274-279.	13.7	816
4	All-optical high-speed signal processing with silicon-organic hybrid slot waveguides. Nature Photonics, 2009, 3, 216-219.	15.6	777
5	What is " and what is not " an optical isolator. Nature Photonics, 2013, 7, 579-582.	15.6	712
6	Coherent terabit communications with microresonator Kerr frequency combs. Nature Photonics, 2014, 8, 375-380.	15.6	526
7	High-speed plasmonic phase modulators. Nature Photonics, 2014, 8, 229-233.	15.6	511
8	Ultrafast optical ranging using microresonator soliton frequency combs. Science, 2018, 359, 887-891.	6.0	509
9	26-Tbit/s line-rate super-channel transmission utilizing all-optical fast Fourier transform processing. Nature Photonics, 2011, 5, 364-371.	15.6	483
10	Error Vector Magnitude as a Performance Measure for Advanced Modulation Formats. IEEE Photonics Technology Letters, 2012, 24, 61-63.	1.3	481
11	Nonlinear silicon-on-insulator waveguides for all-optical signal processing. Optics Express, 2007, 15, 5976.	1.7	366
12	Photonic wire bonding: a novel concept for chip-scale interconnects. Optics Express, 2012, 20, 17667.	1.7	292
13	High-speed low-voltage electro-optic modulator with a polymer-infiltrated silicon photonic crystal waveguide. Optics Express, 2008, 16, 4177.	1.7	282
14	In situ 3D nanoprinting of free-form coupling elements for hybrid photonic integration. Nature Photonics, 2018, 12, 241-247.	15.6	264
15	100-GHz silicon-organic hybrid modulator. Light: Science and Applications, 2014, 3, e173-e173.	7.7	252
16	Surface plasmon polariton absorption modulator. Optics Express, 2011, 19, 8855.	1.7	226
17	Simple all-optical FFT scheme enabling Tbit/s real-time signal processing. Optics Express, 2010, 18, 9324.	1.7	213
18	Femtojoule electro-optic modulation using a silicon-organic hybrid device. Light: Science and Applications, 2015, 4, e255-e255.	7.7	187

#	ARTICLE	IF	CITATIONS
19	427 Gbit/s electro-optic modulator in silicon technology. <i>Optics Express</i> , 2011, 19, 11841.	1.7	176
20	THz-to-optical conversion in wireless communications using an ultra-broadband plasmonic modulator. <i>Nature Photonics</i> , 2019, 13, 519-524.	15.6	170
21	Real-time Nyquist pulse generation beyond 100 Gbit/s and its relation to OFDM. <i>Optics Express</i> , 2012, 20, 317.	1.7	162
22	Hybrid integration of silicon photonics circuits and InP lasers by photonic wire bonding. <i>Optica</i> , 2018, 5, 876.	4.8	159
23	Reduced propagation loss in silicon strip and slot waveguides coated by atomic layer deposition. <i>Optics Express</i> , 2011, 19, 11529.	1.7	154
24	Silicon Organic Hybrid Technology – A Platform for Practical Nonlinear Optics. <i>Proceedings of the IEEE</i> , 2009, 97, 1304-1316.	16.4	145
25	Generalized Kramers-Kronig receiver for coherent terahertz communications. <i>Nature Photonics</i> , 2020, 14, 601-606.	15.6	139
26	Single-Laser 325-Tbit/s Nyquist WDM Transmission. <i>Journal of Optical Communications and Networking</i> , 2012, 4, 715.	3.3	138
27	Silicon-Organic Hybrid Electro-Optical Devices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 114-126.	1.9	134
28	Ultra-high electro-optic activity demonstrated in a silicon-organic hybrid modulator. <i>Optica</i> , 2018, 5, 739.	4.8	131
29	High-Speed, Low Drive-Voltage Silicon-Organic Hybrid Modulator Based on a Binary-Chromophore Electro-Optic Material. <i>Journal of Lightwave Technology</i> , 2014, 32, 2726-2734.	2.7	130
30	Silicon-Organic and Plasmonic-Organic Hybrid Photonics. <i>ACS Photonics</i> , 2017, 4, 1576-1590.	3.2	123
31	Silicon-Organic Hybrid (SOH) and Plasmonic-Organic Hybrid (POH) Integration. <i>Journal of Lightwave Technology</i> , 2016, 34, 256-268.	2.7	119
32	Comment on “Nonreciprocal Light Propagation in a Silicon Photonic Circuit”. <i>Science</i> , 2012, 335, 38-38.	6.0	114
33	Real-Time Software-Defined Multiformat Transmitter Generating 64QAM at 28 GBd. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1601-1603.	1.3	112
34	Optimally Coherent Kerr Combs Generated with Crystalline Whispering Gallery Mode Resonators for Ultrahigh Capacity Fiber Communications. <i>Physical Review Letters</i> , 2015, 114, 093902.	2.9	110
35	Slow and fast dynamics of gain and phase in a quantum dot semiconductor optical amplifier. <i>Optics Express</i> , 2008, 16, 170.	1.7	107
36	Connecting Silicon Photonic Circuits to Multicore Fibers by Photonic Wire Bonding. <i>Journal of Lightwave Technology</i> , 2015, 33, 755-760.	2.7	106

#	ARTICLE	IF	CITATIONS
37	Optical properties of highly nonlinear silicon-organic hybrid (SOH) waveguide geometries. Optics Express, 2009, 17, 17357.	1.7	102
38	Silicon-organic hybrid (SOH) IQ modulator using the linear electro-optic effect for transmitting 16QAM at 112 Gbit/s. Optics Express, 2013, 21, 13219.	1.7	100
39	Silicon-organic hybrid (SOH) frequency comb sources for terabit/s data transmission. Optics Express, 2014, 22, 3629.	1.7	99
40	Dispersion Relation and Loss of Subwavelength Confined Mode of Metal-Dielectric-Gap Optical Waveguides. IEEE Photonics Technology Letters, 2009, 21, 362-364.	1.3	98
41	Plasmonic Communications: Light on a Wire. Optics and Photonics News, 2013, 24, 28.	0.4	98
42	Radiation Modes and Roughness Loss in High Index-Contrast Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1306-1321.	1.9	95
43	Quality metrics for optical signals: Eye diagram, Q-factor, OSNR, EVM and BER. , 2012, , .		88
44	Silicon-plasmonic internal-photoemission detector for 40 Gbit/s data reception. Optica, 2016, 3, 741.	4.8	84
45	Low-Loss Silicon Strip-to-Slot Mode Converters. IEEE Photonics Journal, 2013, 5, 2200409-2200409.	1.0	83
46	Silicon-Organic Hybrid (SOH) Mach-Zehnder Modulators for 100 Gbit/s on-off Keying. Scientific Reports, 2018, 8, 2598.	1.6	81
47	High-Order FDTD and Auxiliary Differential Equation Formulation of Optical Pulse Propagation in 2-D Kerr and Raman Nonlinear Dispersive Media. IEEE Journal of Quantum Electronics, 2004, 40, 175-182.	1.0	80
48	512QAM Nyquist sinc-pulse transmission at 54 Gbit/s in an optical bandwidth of 3 GHz. Optics Express, 2012, 20, 6439.	1.7	79
49	Wireless THz link with optoelectronic transmitter and receiver. Optica, 2019, 6, 1063.	4.8	79
50	Hybrid multi-chip assembly of optical communication engines by in situ 3D nano-lithography. Light: Science and Applications, 2020, 9, 71.	7.7	77
51	Silicon-organic hybrid phase shifter based on a slot waveguide with a liquid-crystal cladding. Optics Express, 2012, 20, 15359.	1.7	74
52	Low Power Mach-Zehnder Modulator in Silicon-Organic Hybrid Technology. IEEE Photonics Technology Letters, 2013, 25, 1226-1229.	1.3	72
53	Plasmonic-organic hybrid (POH) modulators for OOK and BPSK signaling at 40 Gbit/s. Optics Express, 2015, 23, 9938.	1.7	65
54	Low-power silicon-organic hybrid (SOH) modulators for advanced modulation formats. Optics Express, 2014, 22, 29927.	1.7	64

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55	Flexible terabit/s Nyquist-WDM super-channels using a gain-switched comb source. Optics Express, 2015, 23, 724.	1.7	64
56	Temporal Dynamics of the Alpha Factor in Semiconductor Optical Amplifiers. Journal of Lightwave Technology, 2007, 25, 891-900.	2.7	63
57	Silicon-organic plasmonic integrated circuits for terahertz signal generation and coherent detection. Nature Photonics, 2018, 12, 625-633.	15.6	60
58	Cascadability and Regenerative Properties of SOA All-Optical DPSK Wavelength Converters. IEEE Photonics Technology Letters, 2006, 18, 1970-1972.	1.3	59
59	Flexible RF-Based Comb Generator. IEEE Photonics Technology Letters, 2013, 25, 701-704.	1.3	58
60	Optical coherence tomography system mass-producible on a silicon photonic chip. Optics Express, 2016, 24, 1573.	1.7	58
61	Coherent modulation up to 100 GBd 16QAM using silicon-organic hybrid (SOH) devices. Optics Express, 2018, 26, 220.	1.7	56
62	Optically powered fiber networks. Optics Express, 2008, 16, 21821.	1.7	53
63	Pulse-Shaping With Digital, Electrical, and Optical Filters—A Comparison. Journal of Lightwave Technology, 2013, 31, 2570-2577.	2.7	52
64	40 GBd 16QAM Signaling at 160 Gb/s in a Silicon-Organic Hybrid Modulator. Journal of Lightwave Technology, 2015, 33, 1210-1216.	2.7	50
65	An Optically Powered Video Camera Link. IEEE Photonics Technology Letters, 2008, 20, 39-41.	1.3	47
66	Silicon-organic hybrid (SOH) Mach-Zehnder modulators for 100 GBd PAM4 signaling with sub-1- $\mu$ m phase-shifter loss. Optics Express, 2020, 28, 24693.	1.7	47
67	Real-time OFDM transmitter beyond 100 Gbit/s. Optics Express, 2011, 19, 12740.	1.7	45
68	DAC-Less Amplifier-Less Generation and Transmission of QAM Signals Using Sub-Volt Silicon-Organic Hybrid Modulators. Journal of Lightwave Technology, 2015, 33, 1425-1432.	2.7	44
69	Multi-wavelength coherent transmission using an optical frequency comb as a local oscillator. Optics Express, 2016, 24, 25432.	1.7	44
70	Lasing in silicon-organic hybrid waveguides. Nature Communications, 2016, 7, 10864.	5.8	44
71	Second-order nonlinear optical metamaterials: ABC-type nanolaminates. Applied Physics Letters, 2015, 107, .	1.5	43
72	Silicon-Organic Hybrid MZI Modulator Generating OOK, BPSK and 8-ASK Signals for Up to 84 Gbit/s. IEEE Photonics Journal, 2013, 5, 6600907-6600907.	1.0	41

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73	Hybrid electro-optic modulator combining silicon photonic slot waveguides with high-k radio-frequency slotlines. <i>Optica</i> , 2021, 8, 511.	4.8	41
74	Progress in Multichannel All-Optical Regeneration Based on Fiber Technology. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 689-700.	1.9	40
75	Silicon-organic hybrid (SOH) modulators for intensity-modulation / direct-detection links with line rates of up to 120 Gbit/s. <i>Optics Express</i> , 2017, 25, 23784.	1.7	40
76	Second-order nonlinear silicon-organic hybrid waveguides. <i>Optics Express</i> , 2012, 20, 20506.	1.7	38
77	Optische Nachrichtentechnik. , 1991, , .		38
78	The Input Power Dynamic Range of a Semiconductor Optical Amplifier and Its Relevance for Access Network Applications. <i>IEEE Photonics Journal</i> , 2011, 3, 1039-1053.	1.0	37
79	Real-time OFDM or Nyquist pulse generation “ which performs better with limited resources?. <i>Optics Express</i> , 2012, 20, B543.	1.7	37
80	Printed freeform lens arrays on multi-core fibers for highly efficient coupling in astrophotonic systems. <i>Optics Express</i> , 2017, 25, 18288.	1.7	37
81	Pattern Effect Removal Technique for Semiconductor-Optical-Amplifier-Based Wavelength Conversion. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 1955-1957.	1.3	36
82	Integrated optical frequency shifter in silicon-organic hybrid (SOH) technology. <i>Optics Express</i> , 2016, 24, 11694.	1.7	35
83	Coherent WDM transmission using quantum-dash mode-locked laser diodes as multi-wavelength source and local oscillator. <i>Optics Express</i> , 2019, 27, 31164.	1.7	35
84	Performance of chip-scale optical frequency comb generators in coherent WDM communications. <i>Optics Express</i> , 2020, 28, 12897.	1.7	35
85	Robust label-free biosensing using microdisk laser arrays with on-chip references. <i>Optics Express</i> , 2018, 26, 3161.	1.7	34
86	Efficient modulation cancellation using reflective SOAs. <i>Optics Express</i> , 2012, 20, B587.	1.7	33
87	Demonstration of long-term thermally stable silicon-organic hybrid modulators at 85 °C. <i>Optics Express</i> , 2018, 26, 27955.	1.7	32
88	Surface sensing with integrated optical waveguides: a design guideline. <i>Optics Express</i> , 2018, 26, 19885.	1.7	31
89	All-Fiberized Dispersion-Managed Multichannel Regeneration at 43 Gb/s. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1854-1856.	1.3	30
90	Comb-based WDM transmission at 10 Tbit/s using a DC-driven quantum-dash mode-locked laser diode. <i>Optics Express</i> , 2019, 27, 31110.	1.7	30

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91	100 Gbit/s Wireless Link with mm-Wave Photonics. , 2013, , .		29
92	Integration of digital microfluidics with whispering-gallery mode sensors for label-free detection of biomolecules. Lab on A Chip, 2017, 17, 1740-1748.	3.1	29
93	Complexity Analysis of the Kramersâ€“Kronig Receiver. Journal of Lightwave Technology, 2019, 37, 4295-4307.	2.7	29
94	Single Source Optical OFDM Transmitter and Optical FFT Receiver Demonstrated at Line Rates of 5.4 and 10.8 Tbit/s. , 2010, , .		29
95	Linear semiconductor optical amplifiers for amplification of advanced modulation formats. Optics Express, 2012, 20, 9657.	1.7	28
96	Refractive-index profile and modal dispersion prediction for a single-mode optical waveguide from its far-field radiation pattern. Journal of Lightwave Technology, 1985, 3, 628-634.	2.7	27
97	Fast split-step wavelet collocation method for WDM system parameter optimization. Journal of Lightwave Technology, 2005, 23, 1491-1502.	2.7	27
98	Biophotonic sensors with integrated Si3N4-organic hybrid (SiNOH) lasers for point-of-care diagnostics. Light: Science and Applications, 2021, 10, 64.	7.7	27
99	Single Source Optical OFDM Transmitter and Optical FFT Receiver Demonstrated at Line Rates of 5.4 and 10.8 Tbit/s. , 2010, , .		26
100	Optical absorption in silicon layers in the presence of charge inversion/accumulation or ion implantation. Applied Physics Letters, 2013, 103, .	1.5	26
101	Monolithic GaAs Electro-Optic IQ Modulator Demonstrated at 150 Gbit/s With 64QAM. Journal of Lightwave Technology, 2014, 32, 760-765.	2.7	26
102	Photonic-to-plasmonic mode converter. Optics Letters, 2014, 39, 3488.	1.7	26
103	High-Quality Optical Frequency Comb by Spectral Slicing of Spectra Broadened by SPM. IEEE Photonics Journal, 2013, 5, 7201011-7201011.	1.0	24
104	20â€“Gbit/s Wireless Bridge at 220â€“GHz Connecting Two Fiber-Optic Links. Journal of Optical Communications and Networking, 2014, 6, 54.	3.3	24
105	Electro-Optic Organic Crystal Silicon High-Speed Modulator. IEEE Photonics Journal, 2014, 6, 1-9.	1.0	23
106	Photonic-integrated circuits with non-planar topologies realized by 3D-printed waveguide overpasses. Optics Express, 2019, 27, 17402.	1.7	23
107	Speckle interferometry for spectral analysis of laser sources and multimode optical waveguides. Journal of Lightwave Technology, 1986, 4, 64-72.	2.7	22
108	Amplification of advanced modulation formats with a semiconductor optical amplifier cascade. Optics Express, 2014, 22, 17854.	1.7	22

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109	Reliable and lightning-safe monitoring of wind turbine rotor blades using optically powered sensors. <i>Wind Energy</i> , 2017, 20, 345-360.	1.9	22
110	3D-Printed Scanning-Probe Microscopes with Integrated Optical Actuation and Read-Out. <i>Small</i> , 2020, 16, e1904695.	5.2	22
111	Transmission of 80-GBd 16-QAM over 300 km and Kramers-Kronig Reception Using a Low-Complexity FIR Hilbert Filter Approximation. , 2018, , .		22
112	A simple and rigorous verification technique for nonlinear ftd algorithms by optical parametric four-wave mixing. <i>Microwave and Optical Technology Letters</i> , 2006, 48, 88-91.	0.9	21
113	Ideal Bend Contour Trajectories for Single-Mode Operation of Low-Loss Overmoded Waveguides. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 819-821.	1.3	21
114	Free-space optical delay interferometer with tunable delay and phase. <i>Optics Express</i> , 2011, 19, 11654.	1.7	21
115	Corrections to "Error Vector Magnitude as a Performance Measure for Advanced Modulation Formats" [Jan 1, 2012 61-63]. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 2198-2198.	1.3	21
116	Quantum dot SOA input power-dynamic range improvement for differential-phase encoded signals. <i>Optics Express</i> , 2010, 18, 6270.	1.7	20
117	Wireless sub-THz communication system with high data rate enabled by RF photonics and active MMIC technology. , 2014, , .		20
118	OFDM/WDM PON With Laserless, Colorless 100-Gb/s ONUs Based on Si-PIC and Slow IC. <i>Journal of Optical Communications and Networking</i> , 2014, 6, 225.	3.3	20
119	Generation of 64 GBd 4ASK signals using a silicon-organic hybrid modulator at 80°C. <i>Optics Express</i> , 2016, 24, 9389.	1.7	20
120	110-m THz Wireless Transmission at 100 Gbit/s Using a Kramers-Kronig Schottky Barrier Diode Receiver. , 2018, , .		20
121	Non-reciprocal transmission and Schmitt trigger operation in strongly modulated asymmetric WBGs. <i>Optics Express</i> , 2006, 14, 12782.	1.7	19
122	Silicon photonic integrated circuit for fast and precise dual-comb distance metrology. <i>Optics Express</i> , 2017, 25, 30091.	1.7	19
123	Hybrid external-cavity lasers (ECL) using photonic wire bonds as coupling elements. <i>Scientific Reports</i> , 2021, 11, 16426.	1.6	19
124	Mode analysis of optical fibres using computer-generated matched filters. <i>Electronics Letters</i> , 1983, 19, 247.	0.5	18
125	Nonlinear FDTD analysis and experimental verification of four-wave mixing in InGaAsP-InP racetrack microresonators. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 361-363.	1.3	18
126	32QAM WDM transmission at 12 Tbit/s using a quantum-dash mode-locked laser diode (QD-MLLD) with external-cavity feedback. <i>Optics Express</i> , 2020, 28, 23594.	1.7	18



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127	Colorless FDMA-PON With Flexible Bandwidth Allocation and Colorless, Low-Speed ONUs [Invited]. Journal of Optical Communications and Networking, 2013, 5, A204.	3.3	17
128	Verified equivalent-circuit model for slot-waveguide modulators. Optics Express, 2020, 28, 12951.	1.7	17
129	3D-printed optical probes for wafer-level testing of photonic integrated circuits. Optics Express, 2020, 28, 37996.	1.7	17
130	Filter Assisted Wavelength Conversion With Quantum-Dot SOAs. Journal of Lightwave Technology, 2010, 28, 882-897.	2.7	16
131	32QAM WDM Transmission Using a Quantum-Dash Passively Mode-Locked Laser with Resonant Feedback. , 2017, , .		16
132	Integrated phase-sensitive photonic sensors: a system design tutorial. Advances in Optics and Photonics, 2021, 13, 584.	12.1	15
133	WDM Transmission Using Quantum-Dash Mode-Locked Laser Diodes as Multi-Wavelength Source and Local Oscillator. , 2017, , .		14
134	Optimization of nonlinear dispersive APML ABC for the FDTD analysis of optical solitons. IEEE Journal of Quantum Electronics, 2005, 41, 448-454.	1.0	13
135	FDTD-Modelling of Dispersive Nonlinear Ring Resonators: Accuracy Studies and Experiments. IEEE Journal of Quantum Electronics, 2006, 42, 1215-1223.	1.0	13
136	Microwave-Frequency Experiments Validate Optical Simulation Tools and Demonstrate Novel Dispersion-Tailored Photonic Crystal Waveguides. Journal of Lightwave Technology, 2007, 25, 2502-2510.	2.7	13
137	Demonstration of an SOA-assisted open metro-access infrastructure for heterogeneous services. Optics Express, 2014, 22, 737.	1.7	13
138	Full C and L-Band Transmission at 20 Tbit/s Using Cavity-Soliton Kerr Frequency Combs. , 2015, , .		13
139	Multiscale dispersion-state characterization of nanocomposites using optical coherence tomography. Scientific Reports, 2016, 6, 31733.	1.6	13
140	All-optical DPSK wavelength converter based on MZI with integrated SOAs and phase shifters. , 2006, , .		12
141	Silicon-on-insulator modulators for next-generation 100 Gbit/s-Ethernet. , 2007, , 056.		12
142	Optical grooming switch with regenerative functionality for transparent interconnection of networks. Optics Express, 2009, 17, 15173.	1.7	12
143	Regenerative properties of interferometric all-optical DPSK wavelength converters. Optics Express, 2009, 17, 22639.	1.7	12
144	A self-coherent receiver for detection of PolMUX coherent signals. Optics Express, 2012, 20, 21413.	1.7	12

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145	Blind Polarization Demultiplexing With Low Computational Complexity. IEEE Photonics Technology Letters, 2013, 25, 1230-1233.	1.3	12
146	High-Speed Silicon-Organic Hybrid (SOH) Modulator with 1.6 fJ/bit and 180 pm/V In-Device Nonlinearity. , 2013, , .		12
147	Full flex-grid asynchronous multiplexing demonstrated with Nyquist pulse-shaping. Optics Express, 2014, 22, 10923.	1.7	12
148	Real-time Nyquist signaling with dynamic precision and flexible non-integer oversampling. Optics Express, 2014, 22, 193.	1.7	12
149	100 Gbit/s OOK using a silicon-organic hybrid (SOH) modulator. , 2015, , .		12
150	Simultaneous Phase Noise Reduction of 30 Comb Lines from a Quantum-Dash Mode-Locked Laser Diode Enabling Coherent Tbit/s Data Transmission. , 2015, , .		12
151	Electrically packaged silicon-organic hybrid (SOH) I/Q-modulator for 64 GBd operation. Optics Express, 2018, 26, 34580.	1.7	12
152	101.5 Gbit/s Real-Time OFDM Transmitter with 16QAM Modulated Subcarriers. , 2011, , .		12
153	252 Gbit/s Real-Time Nyquist Pulse Generation by Reducing the Oversampling Factor to 1.33. , 2013, , .		12
154	Single- and multi-carrier techniques to build up Tb/s per channel transmission systems. , 2010, , .		11
155	Generation and transmission of 854 Gb/s real-time 16QAM coherent optical OFDM signals over 400 km SSMF with preamble-less reception. Optics Express, 2012, 20, 21612.	1.7	11
156	8-channel 448 Gbit/s Silicon Photonic Transmitter Enabled by Photonic Wire Bonding. , 2017, , .		11
157	Optical Arbitrary Waveform Measurement (OAWM) Using Silicon Photonic Slicing Filters. Journal of Lightwave Technology, 2022, 40, 1705-1717.	2.7	11
158	Software-defined optical transmission. , 2011, , .		10
159	Coherent Terabit Communications Using a Quantum-Dash Mode-Locked Laser and Self-Homodyne Detection. , 2015, , .		10
160	Stacked modulation formats enabling highest-sensitivity optical free-space links. Optics Express, 2015, 23, 21942.	1.7	10
161	Measurement of Length and Position with Frequency Combs. Journal of Physics: Conference Series, 2015, 605, 012030.	0.3	10
162	Superconducting nanowire single-photon detector with 3D-printed free-form microlenses. Optics Express, 2021, 29, 27708.	1.7	10

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163	Record-High In-Device Electro-Optic Coefficient of 359 pm/V in a Silicon-Organic Hybrid (SOH) Modulator. , 2017, , .		10
164	Terahertz-to-Optical Conversion Using a Plasmonic Modulator. , 2018, , .		10
165	SOH Mach-Zehnder Modulators for 100 GBd PAM4 Signaling With Sub-1 dB Phase-Shifter Loss. , 2020, , .		10
166	A Surface Plasmon Polariton Absorption Modulator. , 2010, , .		9
167	Implementation of an ultra-high speed 256-point FFT for Xilinx Virtex-6 devices. , 2011, , .		9
168	Fast high-precision distance metrology using a pair of modulator-generated dual-color frequency combs. Optics Express, 2018, 26, 34305.	1.7	9
169	8.32 Tbit/s Coherent Transmission Using a Quantum-Dash Mode-Locked Laser Diode. , 2016, , .		9
170	Impact of alfa-factor on SOA Dynamic Range for 20 GBd BPSK, QPSK and 16-QAM Signals. , 2011, , .		9
171	Rayleigh-Sommerfeld and Helmholtz-Kirchhoff integrals: application to the scalar and vectorial theory of wave propagation and diffraction. Journal of Lightwave Technology, 1995, 13, 24-32.	2.7	8
172	Single and multiple channel operation dynamics of linear quantum-dot semiconductor optical amplifier. , 2008, , .		8
173	Nyquist Frequency Division Multiplexing for Optical Communications. , 2012, , .		8
174	Real-Time Digital Nyquist-WDM and OFDM Signal Generation: Spectral Efficiency Versus DSP Complexity. , 2012, , .		8
175	In-Service Monitoring of PON Access Networks With Powerline Independent Devices. Journal of Optical Communications and Networking, 2014, 6, 1018.	3.3	8
176	Multi-Chip Integration of Lasers and Silicon Photonics by Photonic Wire Bonding. , 2015, , .		8
177	Capacitively Coupled Silicon-Organic Hybrid Modulator for 200 Gbit/s PAM-4 Signaling. , 2019, , .		8
178	Lenses for Low-Loss Chip-to-Fiber and Fiber-to-Fiber Coupling Fabricated by 3D Direct-Write Lithography. , 2016, , .		8
179	Lasing in Si <sub>3</sub> N <sub>4</sub> -organic hybrid (SiNOH) waveguides. Optics Express, 2020, 28, 5085.	1.7	8
180	Microresonator-Based Optical Frequency Combs for High-Bitrate WDM Data Transmission. , 2012, , .		8

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181	Silicon-Organic Hybrid (SOH) IQ Modulator for 100 GBd 16QAM Operation. , 2017, , .		8
182	100 Gbit/s Serial Transmission Using a Silicon-Organic Hybrid (SOH) Modulator and a Duobinary Driver IC. , 2017, , .		8
183	Far-field profiling of multimode optical fibres. Electronics Letters, 1981, 17, 385.	0.5	7
184	Computer-generated holograms with error compensation. Applied Optics, 1988, 27, 138.	2.1	7
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186	Stark-enhanced diode-laser spectroscopy of formaldehyde using a modified Herriott-type multipass cell. Applied Physics B: Lasers and Optics, 2007, 88, 117-123.	1.1	7
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