

Wolfgang Freude

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

333
papers

11,283
citations

49
h-index

101
g-index

452
ext. papers

14,705
ext. citations

6.2
avg, IF

5.92
L-index

#	Paper	IF	Citations
333	Nonlinear silicon photonics. <i>Nature Photonics</i> , 2010 , 4, 535-544	33.9	773
332	Wireless sub-THz communication system with high data rate. <i>Nature Photonics</i> , 2013 , 7, 977-981	33.9	726
331	All-optical high-speed signal processing with silicon-organic hybrid slot waveguides. <i>Nature Photonics</i> , 2009 , 3, 216-219	33.9	597
330	Microresonator-based solitons for massively parallel coherent optical communications. <i>Nature</i> , 2017 , 546, 274-279	50.4	427
329	High-speed plasmonic phase modulators. <i>Nature Photonics</i> , 2014 , 8, 229-233	33.9	376
328	26 Tbit/s line-rate super-channel transmission utilizing all-optical fast Fourier transform processing. <i>Nature Photonics</i> , 2011 , 5, 364-371	33.9	364
327	Coherent terabit communications with microresonator Kerr frequency combs. <i>Nature Photonics</i> , 2014 , 8, 375-380	33.9	358
326	Error Vector Magnitude as a Performance Measure for Advanced Modulation Formats. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 61-63	2.2	312
325	Nonlinear silicon-on-insulator waveguides for all-optical signal processing. <i>Optics Express</i> , 2007 , 15, 5976-5990	3.9	289
324	Ultrafast optical ranging using microresonator soliton frequency combs. <i>Science</i> , 2018 , 359, 887-891	33.3	274
323	High-speed low-voltage electro-optic modulator with a polymer-infiltrated silicon photonic crystal waveguide. <i>Optics Express</i> , 2008 , 16, 4177-91	3.3	226
322	100 GHz silicon-organic hybrid modulator. <i>Light: Science and Applications</i> , 2014 , 3, e173-e173	16.7	198
321	Photonic wire bonding: a novel concept for chip-scale interconnects. <i>Optics Express</i> , 2012 , 20, 17667-77	3.3	185
320	Surface plasmon polariton absorption modulator. <i>Optics Express</i> , 2011 , 19, 8855-69	3.3	176
319	In situ 3D nanoprinting of free-form coupling elements for hybrid photonic integration. <i>Nature Photonics</i> , 2018 , 12, 241-247	33.9	150
318	Femtojoule electro-optic modulation using a silicon-organic hybrid device. <i>Light: Science and Applications</i> , 2015 , 4, e255-e255	16.7	136
317	42.7 Gbit/s electro-optic modulator in silicon technology. <i>Optics Express</i> , 2011 , 19, 11841-51	3.3	133

316	Simple all-optical FFT scheme enabling Tbit/s real-time signal processing. <i>Optics Express</i> , 2010 , 18, 9324-40	3.3	129
315	Real-time Nyquist pulse generation beyond 100 Gbit/s and its relation to OFDM. <i>Optics Express</i> , 2012 , 20, 317-37	3.3	117
314	Silicon Organic Hybrid Technology A Platform for Practical Nonlinear Optics. <i>Proceedings of the IEEE</i> , 2009 , 97, 1304-1316	14.3	111
313	Single-Laser 325 Tbit/s Nyquist WDM Transmission. <i>Journal of Optical Communications and Networking</i> , 2012 , 4, 715	4.1	106
312	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	4	101
311	Silicon-Organic Hybrid Electro-Optical Devices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 114-126	3.8	101
310	Reduced propagation loss in silicon strip and slot waveguides coated by atomic layer deposition. <i>Optics Express</i> , 2011 , 19, 11529-38	3.3	100
309	Comment on "Nonreciprocal light propagation in a silicon photonic circuit". <i>Science</i> , 2012 , 335, 38; author reply 38	33.3	93
308	Real-Time Software-Defined Multiformat Transmitter Generating 64QAM at 28 GBd. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1601-1603	2.2	92
307	Slow and fast dynamics of gain and phase in a quantum dot semiconductor optical amplifier. <i>Optics Express</i> , 2008 , 16, 170-8	3.3	91
306	Silicon-Organic Hybrid (SOH) and Plasmonic-Organic Hybrid (POH) Integration. <i>Journal of Lightwave Technology</i> , 2016 , 34, 256-268	4	89
305	Silicon Organic and Plasmonic Organic Hybrid Photonics. <i>ACS Photonics</i> , 2017 , 4, 1576-1590	6.3	85
304	THz-to-optical conversion in wireless communications using an ultra-broadband plasmonic modulator. <i>Nature Photonics</i> , 2019 , 13, 519-524	33.9	81
303	Ultra-high electro-optic activity demonstrated in a silicon-organic hybrid modulator. <i>Optica</i> , 2018 , 5, 7398.6		78
302	Dispersion Relation and Loss of Subwavelength Confined Mode of Metal-Dielectric-Gap Optical Waveguides. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 362-364	2.2	78
301	Optical properties of highly nonlinear silicon-organic hybrid (SOH) waveguide geometries. <i>Optics Express</i> , 2009 , 17, 17357-68	3.3	77
300	Radiation Modes and Roughness Loss in High Index-Contrast Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006 , 12, 1306-1321	3.8	77
299	Silicon-organic hybrid (SOH) IQ modulator using the linear electro-optic effect for transmitting 16QAM at 112 Gbit/s. <i>Optics Express</i> , 2013 , 21, 13219-27	3.3	75

298	Optimally coherent Kerr combs generated with crystalline whispering gallery mode resonators for ultrahigh capacity fiber communications. <i>Physical Review Letters</i> , 2015 , 114, 093902	7.4	74
297	Hybrid integration of silicon photonics circuits and InP lasers by photonic wire bonding. <i>Optica</i> , 2018 , 5, 876	8.6	74
296	Silicon-organic hybrid (SOH) frequency comb sources for terabit/s data transmission. <i>Optics Express</i> , 2014 , 22, 3629-37	3.3	72
295	Plasmonic Communications: Light on a Wire. <i>Optics and Photonics News</i> , 2013 , 24, 28	1.9	62
294	Connecting Silicon Photonic Circuits to Multicore Fibers by Photonic Wire Bonding. <i>Journal of Lightwave Technology</i> , 2015 , 33, 755-760	4	60
293	Low-Loss Silicon Strip-to-Slot Mode Converters. <i>IEEE Photonics Journal</i> , 2013 , 5, 2200409-2200409	1.8	60
292	512QAM Nyquist sinc-pulse transmission at 54 Gbit/s in an optical bandwidth of 3 GHz. <i>Optics Express</i> , 2012 , 20, 6439-47	3.3	60
291	Quality metrics for optical signals: Eye diagram, Q-factor, OSNR, EVM and BER 2012 ,		59
290	Low Power Mach-Zehnder Modulator in Silicon-Organic Hybrid Technology. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 1226-1229	2.2	58
289	High-order FDTD and auxiliary differential equation formulation of optical pulse propagation in 2-D Kerr and Raman nonlinear dispersive media. <i>IEEE Journal of Quantum Electronics</i> , 2004 , 40, 175-182	2	58
288	Silicon-organic hybrid phase shifter based on a slot waveguide with a liquid-crystal cladding. <i>Optics Express</i> , 2012 , 20, 15359-76	3.3	54
287	Silicon-plasmonic internal-photoemission detector for 40 Gbit/s data reception. <i>Optica</i> , 2016 , 3, 741	8.6	54
286	Silicon-Organic Hybrid (SOH) Mach-Zehnder Modulators for 100 Gbit/s on-off Keying. <i>Scientific Reports</i> , 2018 , 8, 2598	4.9	50
285	Plasmonic-organic hybrid (POH) modulators for OOK and BPSK signaling at 40 Gbit/s. <i>Optics Express</i> , 2015 , 23, 9938-46	3.3	49
284	Low-power silicon-organic hybrid (SOH) modulators for advanced modulation formats. <i>Optics Express</i> , 2014 , 22, 29927-36	3.3	49
283	Temporal Dynamics of the Alpha Factor in Semiconductor Optical Amplifiers. <i>Journal of Lightwave Technology</i> , 2007 , 25, 891-900	4	46
282	Generalized Kramers-Kronig receiver for coherent terahertz communications. <i>Nature Photonics</i> , 2020 , 14, 601-606	33.9	46
281	Cascadability and Regenerative Properties of SOA All-Optical DPSK Wavelength Converters. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 1970-1972	2.2	45

280	. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 701-704	2.2	44
279	Optically powered fiber networks. <i>Optics Express</i> , 2008 , 16, 21821-34	3.3	40
278	Pulse-Shaping With Digital, Electrical, and Optical Filters—A Comparison. <i>Journal of Lightwave Technology</i> , 2013 , 31, 2570-2577	4	39
277	40 GBd 16QAM Signaling at 160 Gb/s in a Silicon-Organic Hybrid Modulator. <i>Journal of Lightwave Technology</i> , 2015 , 33, 1210-1216	4	38
276	Flexible terabit/s Nyquist-WDM super-channels using a gain-switched comb source. <i>Optics Express</i> , 2015 , 23, 724-38	3.3	38
275	Coherent modulation up to 100 GBd 16QAM using silicon-organic hybrid (SOH) devices. <i>Optics Express</i> , 2018 , 26, 220-232	3.3	38
274	Silicon-plasmonic integrated circuits for terahertz signal generation and coherent detection. <i>Nature Photonics</i> , 2018 , 12, 625-633	33.9	38
273	Real-time OFDM transmitter beyond 100 Gbit/s. <i>Optics Express</i> , 2011 , 19, 12740-9	3.3	37
272	An Optically Powered Video Camera Link. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 39-41	2.2	35
271	Optical coherence tomography system mass-producible on a silicon photonic chip. <i>Optics Express</i> , 2016 , 24, 1573-86	3.3	33
270	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012 , 18, 689-700	3.8	33
269	Second-order nonlinear optical metamaterials: ABC-type nanolaminates. <i>Applied Physics Letters</i> , 2015 , 107, 121903	3.4	33
268	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	1.8	33
267	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, 23784-23800	3.3	32
266	DAC-Less Amplifier-Less Generation and Transmission of QAM Signals Using Sub-Volt Silicon-Organic Hybrid Modulators. <i>Journal of Lightwave Technology</i> , 2015 , 33, 1425-1432	4	31
265	Silicon-Organic Hybrid MZI Modulator Generating OOK, BPSK and 8-ASK Signals for Up to 84 Gbit/s. <i>IEEE Photonics Journal</i> , 2013 , 5, 6600907-6600907	1.8	31
264	Second-order nonlinear silicon-organic hybrid waveguides. <i>Optics Express</i> , 2012 , 20, 20506-15	3.3	31
263	Wireless THz link with optoelectronic transmitter and receiver. <i>Optica</i> , 2019 , 6, 1063	8.6	31

262	Real-time OFDM or Nyquist pulse generation--which performs better with limited resources?. <i>Optics Express</i> , 2012 , 20, B543-51	3.3	29
261	Pattern Effect Removal Technique for Semiconductor-Optical-Amplifier-Based Wavelength Conversion. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1955-1957	2.2	27
260	Optische Nachrichtentechnik 1991 ,		27
259	Multi-wavelength coherent transmission using an optical frequency comb as a local oscillator. <i>Optics Express</i> , 2016 , 24, 25432-25445	3.3	27
258	Efficient modulation cancellation using reflective SOAs. <i>Optics Express</i> , 2012 , 20, B587-94	3.3	26
257	Refractive-index profile and modal dispersion prediction for a single-mode optical waveguide from its far-field radiation pattern. <i>Journal of Lightwave Technology</i> , 1985 , 3, 628-634	4	26
256	Single Source Optical OFDM Transmitter and Optical FFT Receiver Demonstrated at Line Rates of 5.4 and 10.8 Tbit/s 2010 ,		26
255	Hybrid multi-chip assembly of optical communication engines by in situ 3D nano-lithography. <i>Light: Science and Applications</i> , 2020 , 9, 71	16.7	25
254	Lasing in silicon-organic hybrid waveguides. <i>Nature Communications</i> , 2016 , 7, 10864	17.4	24
253	Robust label-free biosensing using microdisk laser arrays with on-chip references. <i>Optics Express</i> , 2018 , 26, 3161-3173	3.3	24
252	Integration of digital microfluidics with whispering-gallery mode sensors for label-free detection of biomolecules. <i>Lab on A Chip</i> , 2017 , 17, 1740-1748	7.2	23
251	Complexity Analysis of the Kramers-Kronig Receiver. <i>Journal of Lightwave Technology</i> , 2019 , 37, 4295-4307		23
250	Printed freeform lens arrays on multi-core fibers for highly efficient coupling in astrophotonic systems. <i>Optics Express</i> , 2017 , 25, 18288-18295	3.3	23
249	All-Fiberized Dispersion-Managed Multichannel Regeneration at 43 Gb/s. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 1854-1856	2.2	23
248	Fast split-step wavelet collocation method for WDM system parameter optimization. <i>Journal of Lightwave Technology</i> , 2005 , 23, 1491-1502	4	23
247	Coherent WDM transmission using quantum-dash mode-locked laser diodes as multi-wavelength source and local oscillator. <i>Optics Express</i> , 2019 , 27, 31164-31175	3.3	22
246	Surface sensing with integrated optical waveguides: a design guideline. <i>Optics Express</i> , 2018 , 26, 19885-19906	3.3	21
245	Monolithic GaAs Electro-Optic IQ Modulator Demonstrated at 150 Gbit/s With 64QAM. <i>Journal of Lightwave Technology</i> , 2014 , 32, 760-765	4	21

244	Optical absorption in silicon layers in the presence of charge inversion/accumulation or ion implantation. <i>Applied Physics Letters</i> , 2013 , 103, 051104	3.4	21
243	Linear semiconductor optical amplifiers for amplification of advanced modulation formats. <i>Optics Express</i> , 2012 , 20, 9657-72	3.3	21
242	Silicon-organic hybrid (SOH) Mach-Zehnder modulators for 100 GBd PAM4 signaling with sub-1 dB phase-shifter loss. <i>Optics Express</i> , 2020 , 28, 24693-24707	3.3	21
241	Integrated optical frequency shifter in silicon-organic hybrid (SOH) technology. <i>Optics Express</i> , 2016 , 24, 11694-707	3.3	21
240	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	2.2	20
239	Comb-based WDM transmission at 10 Tbit/s using a DC-driven quantum-dash mode-locked laser diode. <i>Optics Express</i> , 2019 , 27, 31110-31129	3.3	20
238	Speckle interferometry for spectral analysis of laser sources and multimode optical waveguides. <i>Journal of Lightwave Technology</i> , 1986 , 4, 64-72	4	19
237	Reliable and lightning-safe monitoring of wind turbine rotor blades using optically powered sensors. <i>Wind Energy</i> , 2017 , 20, 345-360	3.4	18
236	Photonic-to-plasmonic mode converter. <i>Optics Letters</i> , 2014 , 39, 3488-91	3	18
235	100 Gbit/s Wireless Link with mm-Wave Photonics 2013 ,		18
234	Free-space optical delay interferometer with tunable delay and phase. <i>Optics Express</i> , 2011 , 19, 11654-66.3	3.3	18
233	Non-reciprocal transmission and Schmitt trigger operation in strongly modulated asymmetric WBGs. <i>Optics Express</i> , 2006 , 14, 12782-93	3.3	18
232	Generation of 64 GBd 4ASK signals using a silicon-organic hybrid modulator at 80°C. <i>Optics Express</i> , 2016 , 24, 9389-96	3.3	18
231	Quantum dot SOA input power dynamic range improvement for differential-phase encoded signals. <i>Optics Express</i> , 2010 , 18, 6270-6	3.3	17
230	Ideal Bend Contour Trajectories for Single-Mode Operation of Low-Loss Overmoded Waveguides. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 819-821	2.2	17
229	OFDM/WDM PON With Laserless, Colorless 1 Gb/s ONUs Based on Si-PIC and Slow IC. <i>Journal of Optical Communications and Networking</i> , 2014 , 6, 225	4.1	16
228	High-Quality Optical Frequency Comb by Spectral Slicing of Spectra Broadened by SPM. <i>IEEE Photonics Journal</i> , 2013 , 5, 7201011-7201011	1.8	16
227	Amplification of advanced modulation formats with a semiconductor optical amplifier cascade. <i>Optics Express</i> , 2014 , 22, 17854-71	3.3	16

226	A simple and rigorous verification technique for nonlinear fdtd algorithms by optical parametric four-wave mixing. <i>Microwave and Optical Technology Letters</i> , 2006 , 48, 88-91	1.2	16
225	20 Gbit/s Wireless Bridge at 220 GHz Connecting Two Fiber-Optic Links. <i>Journal of Optical Communications and Networking</i> , 2014 , 6, 54	4.1	15
224	. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-9	1.8	15
223	Colorless FDMA-PON With Flexible Bandwidth Allocation and Colorless, Low-Speed ONUs [Invited]. <i>Journal of Optical Communications and Networking</i> , 2013 , 5, A204	4.1	15
222	. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 361-363	2.2	15
221	Mode analysis of optical fibres using computer-generated matched filters. <i>Electronics Letters</i> , 1983 , 19, 247	1.1	15
220	32QAM WDM Transmission Using a Quantum-Dash Passively Mode-Locked Laser with Resonant Feedback 2017 ,		15
219	Demonstration of long-term thermally stable silicon-organic hybrid modulators at 85 °C. <i>Optics Express</i> , 2018 , 26, 27955-27964	3.3	14
218	Transmission of 80-GBd 16-QAM over 300 km and Kramers-Kronig Reception Using a Low-Complexity FIR Hilbert Filter Approximation 2018 ,		14
217	Optimization of nonlinear dispersive APML ABC for the FDTD analysis of optical solitons. <i>IEEE Journal of Quantum Electronics</i> , 2005 , 41, 448-454	2	13
216	Photonic-integrated circuits with non-planar topologies realized by 3D-printed waveguide overpasses. <i>Optics Express</i> , 2019 , 27, 17402-17425	3.3	13
215	Filter Assisted Wavelength Conversion With Quantum-Dot SOAs. <i>Journal of Lightwave Technology</i> , 2010 , 28, 882-897	4	12
214	Silicon photonic integrated circuit for fast and precise dual-comb distance metrology. <i>Optics Express</i> , 2017 , 25, 30091-30104	3.3	11
213	Wireless sub-THz communication system with high data rate enabled by RF photonics and active MMIC technology 2014 ,		11
212	WDM Transmission Using Quantum-Dash Mode-Locked Laser Diodes as Multi-Wavelength Source and Local Oscillator 2017 ,		11
211	110-m THz Wireless Transmission at 100 Gbit/s Using a Kramers-Kronig Schottky Barrier Diode Receiver 2018 ,		11
210	Blind Polarization Demultiplexing With Low Computational Complexity. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 1230-1233	2.2	10
209	Demonstration of an SOA-assisted open metro-access infrastructure for heterogeneous services. <i>Optics Express</i> , 2014 , 22, 737-48	3.3	10

208	Full flex-grid asynchronous multiplexing demonstrated with Nyquist pulse-shaping. <i>Optics Express</i> , 2014 , 22, 10923-37	3.3	10
207	High-Speed Silicon-Organic Hybrid (SOH) Modulator with 1.6 fJ/bit and 180 pm/V In-Device Nonlinearity 2013 ,		10
206	Regenerative properties of interferometricall-optical DPSK wavelength converters. <i>Optics Express</i> , 2009 , 17, 22639-58	3.3	10
205	FDTD-Modelling of Dispersive Nonlinear Ring Resonators: Accuracy Studies and Experiments. <i>IEEE Journal of Quantum Electronics</i> , 2006 , 42, 1215-1223	2	10
204	Performance of chip-scale optical frequency comb generators in coherent WDM communications. <i>Optics Express</i> , 2020 , 28, 12897-12910	3.3	10
203	3D-Printed Scanning-Probe Microscopes with Integrated Optical Actuation and Read-Out. <i>Small</i> , 2020 , 16, e1904695	11	10
202	Multiscale dispersion-state characterization of nanocomposites using optical coherence tomography. <i>Scientific Reports</i> , 2016 , 6, 31733	4.9	9
201	A Surface Plasmon Polariton Absorption Modulator 2010 ,		9
200	Optical grooming switch with regenerative functionality for transparent interconnection of networks. <i>Optics Express</i> , 2009 , 17, 15173-85	3.3	9
199	Silicon-on-insulator modulators for next-generation 100 Gbit/s-Ethernet 2007 , 056		9
198	Record-High In-Device Electro-Optic Coefficient of 359 pm/V in a Silicon-Organic Hybrid (SOH) Modulator 2017 ,		9
197	252 Gbit/s Real-Time Nyquist Pulse Generation by Reducing the Oversampling Factor to 1.33 2013 ,		9
196	100 Gbit/s OOK using a silicon-organic hybrid (SOH) modulator 2015 ,		8
195	A self-coherent receiver for detection of PoMUX coherent signals. <i>Optics Express</i> , 2012 , 20, 21413-33	3.3	8
194	Single Source Optical OFDM Transmitter and Optical FFT Receiver Demonstrated at Line Rates of 5.4 and 10.8 Tbit/s 2010 ,		8
193	All-optical DPSK wavelength converter based on MZI with integrated SOAs and phase shifters 2006 ,		8
192	Microwave-Frequency Experiments Validate Optical Simulation Tools and Demonstrate Novel Dispersion-Tailored Photonic Crystal Waveguides. <i>Journal of Lightwave Technology</i> , 2007 , 25, 2502-2510 ⁴		8
191	. <i>Journal of Lightwave Technology</i> , 1995 , 13, 24-32	4	8

190	Impact of alfa-factor on SOA Dynamic Range for 20 GBd BPSK, QPSK and 16-QAM Signals 2011 ,		8
189	101.5 Gbit/s Real-Time OFDM Transmitter with 16QAM Modulated Subcarriers 2011 ,		8
188	Hybrid electro-optic modulator combining silicon photonic slot waveguides with high-k radio-frequency slotlines. <i>Optica</i> , 2021 , 8, 511	8.6	8
187	Stacked modulation formats enabling highest-sensitivity optical free-space links. <i>Optics Express</i> , 2015 , 23, 21942-57	3.3	7
186	Simultaneous Phase Noise Reduction of 30 Comb Lines from a Quantum-Dash Mode-Locked Laser Diode Enabling Coherent Tbit/s Data Transmission 2015 ,		7
185	Real-time Nyquist signaling with dynamic precision and flexible non-integer oversampling. <i>Optics Express</i> , 2014 , 22, 193-209	3.3	7
184	Single- and multi-carrier techniques to build up Tb/s per channel transmission systems 2010 ,		7
183	Generation and transmission of 85.4 Gb/s real-time 16QAM coherent optical OFDM signals over 400 km SSMF with preamble-less reception. <i>Optics Express</i> , 2012 , 20, 21612-7	3.3	7
182	Numerical prediction of minimum sub-diffraction-limit image generated by silver surface plasmon lenses. <i>Optics Express</i> , 2008 , 16, 21039-52	3.3	7
181	Computer-generated holograms with error compensation. <i>Applied Optics</i> , 1988 , 27, 138-46	1.7	7
180	Terahertz-to-Optical Conversion Using a Plasmonic Modulator 2018 ,		7
179	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, 23594-23608	3.3	7
178	8-channel 448 Gbit/s Silicon Photonic Transmitter Enabled by Photonic Wire Bonding 2017 ,		7
177	Measurement of Length and Position with Frequency Combs. <i>Journal of Physics: Conference Series</i> , 2015 , 605, 012030	0.3	6
176	Full C and L-Band Transmission at 20 Tbit/s Using Cavity-Soliton Kerr Frequency Combs 2015 ,		6
175	3D-Printed Ultra-Broadband Highly Efficient Out-of-Plane Coupler for Photonic Integrated Circuits 2018 ,		6
174	In-Service Monitoring of PON Access Networks With Powerline Independent Devices. <i>Journal of Optical Communications and Networking</i> , 2014 , 6, 1018	4.1	6
173	Silicon high-speed electro-optic modulator 2010 ,		6

172	Single and multiple channel operation dynamics of linear quantum-dot semiconductor optical amplifier 2008 ,		6
171	Refractive-index profile determination of single-mode fibres by far-field power measurements at 1300 nm. <i>Electronics Letters</i> , 1986 , 22, 945	1.1	6
170	Far-field profiling of multimode optical fibres. <i>Electronics Letters</i> , 1981 , 17, 385	1.1	6
169	100 Gbit/s Wireless Link with mm-Wave Photonics 2013 ,		6
168	Electrically packaged silicon-organic hybrid (SOH) I/Q-modulator for 64 GBd operation. <i>Optics Express</i> , 2018 , 26, 34580-34591	3.3	6
167	Lasing in SiN-organic hybrid (SiNOH) waveguides. <i>Optics Express</i> , 2020 , 28, 5085-5104	3.3	6
166	Silicon-Organic Hybrid (SOH) IQ Modulator for 100 GBd 16QAM Operation 2017 ,		6
165	Fast high-precision distance metrology using a pair of modulator-generated dual-color frequency combs. <i>Optics Express</i> , 2018 , 26, 34305-34335	3.3	6
164	Synthetic-wavelength interferometry improved with frequency calibration and unambiguity range extension. <i>Applied Optics</i> , 2015 , 54, 6334-43	0.2	5
163	Wireless multi-subcarrier THz communications using mixing in a photoconductor for coherent reception 2017 ,		5
162	Coherent Terabit Communications Using a Quantum-Dash Mode-Locked Laser and Self-Homodyne Detection 2015 ,		5
161	Ultra-Dense, Single-Wavelength DFT-Spread OFDMA PON With Laserless 1.2 Gb/s ONU Ready for Silicon Photonics Integration. <i>Journal of Lightwave Technology</i> , 2015 , 33, 1650-1659	4	5
160	An All-Optical Grooming Switch for Interconnecting Access and Metro Ring Networks [Invited]. <i>Journal of Optical Communications and Networking</i> , 2011 , 3, 206	4.1	5
159	Linear and Nonlinear Semiconductor Optical Amplifiers 2010 ,		5
158	Real-Time Nyquist Pulse Modulation Transmitter Generating Rectangular Shaped Spectra of 112 Gbit/s 16QAM Signals 2011 ,		5
157	Nyquist Frequency Division Multiplexing for Optical Communications 2012 ,		5
156	Real-Time Digital Nyquist-WDM and OFDM Signal Generation: Spectral Efficiency Versus DSP Complexity 2012 ,		5
155	Stark-enhanced diode-laser spectroscopy of formaldehyde using a modified Herriott-type multipass cell. <i>Applied Physics B: Lasers and Optics</i> , 2007 , 88, 117-123	1.9	5

154	Capacitively Coupled Silicon-Organic Hybrid Modulator for 200 Gbit/s PAM-4 Signaling 2019 ,	5
153	8.32 Tbit/s Coherent Transmission Using a Quantum-Dash Mode-Locked Laser Diode 2016 ,	5
152	Verified equivalent-circuit model for slot-waveguide modulators. <i>Optics Express</i> , 2020 , 28, 12951-12976 3.3	5
151	3D-printed optical probes for wafer-level testing of photonic integrated circuits. <i>Optics Express</i> , 2020 , 28, 37996-38007	3.3 5
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149	100 Gbit/s Serial Transmission Using a Silicon-Organic Hybrid (SOH) Modulator and a Duobinary Driver IC 2017 ,	5
148	Biophotonic sensors with integrated SiN-organic hybrid (SiNOH) lasers for point-of-care diagnostics. <i>Light: Science and Applications</i> , 2021 , 10, 64	16.7 5
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144	High-Speed Silicon-Organic Hybrid (SOH) Modulators with 230 pm/V Electro-Optic Coefficient Using Advanced Materials 2014 ,	4
143	Doping Geometries for 40G Carrier-Depletion-Based Silicon Optical Modulators 2012 ,	4
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141	A novel system on chip for software-defined, high-speed OFDM signal processing 2013 ,	4
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131	1.3 / 1.5 μm QD-SOAs for WDM/TDM GPON with Extended Reach and Large Upstream / Downstream Dynamic Range 2009 ,		4
130	Microresonator-Based Optical Frequency Combs for High-Bitrate WDM Data Transmission 2012 ,		4
129	Colorless Coherent Passive Optical Network Using a Frequency Comb Local Oscillator 2019 ,		4
128	Optical Arbitrary Waveform Measurement (OAWM) on the Silicon Photonic Platform 2021 ,		4
127	Connecting silicon photonic circuits to multi-core fibers by photonic wire bonding 2014 ,		3
126	High-speed, low-power optical modulators in silicon 2013 ,		3
125	Spectral signature of nonlinear effects in semiconductor optical amplifiers. <i>Optics Express</i> , 2017 , 25, 29536-29539	3.6	3
124	Plasmonic Internal Photoemission Detectors with Responsivities above 0.12 A/W 2015 ,		3
123	Multi-Chip Integration of Lasers and Silicon Photonics by Photonic Wire Bonding 2015 ,		3
122	High-speed and low-power silicon-organic hybrid modulators for advanced modulation formats 2015 ,		3
121	Terabit/s data transmission using optical frequency combs 2013 ,		3
120	First Monolithic GaAs IQ Electro-optic Modulator, Demonstrated at 150 Gbit/s with 64-QAM 2013 ,		3
119	40 Gbit/s silicon-organic hybrid (SOH) phase modulator 2010 ,		3

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114	Performance Evaluation of Wavelength Conversion at 160 Gbit/s using XGM in Quantum-Dot Semiconductor Optical Amplifiers in MZI configuration 2007 ,		3
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106	Bi-directional Ultra-dense Polarization-diverse OFDM/WDM PON with Laserless Colorless 1Gb/s ONUs Based on Si PICs and 2013 ,		3
105	Multi-Chip Integration by Photonic Wire Bonding: Connecting Surface and Edge Emitting Lasers to Silicon Chips 2016 ,		3
104	Software-Defined Multi-Format Transmitter with Real-Time Signal Processing for up to 160 Gbit/s 2010 ,		3
103	Field Trial of WDM-OTDM Transmultiplexing employing Photonic Switch Fabric-based Buffer-less Bit-interleaved Data Grooming and All-Optical Regeneration 2009 ,		3
102	Remote Heterodyne Reception of OFDM-QPSK as Downlink-Solution for Future Access Networks 2012 ,		3
101	First Silicon-Organic Hybrid Laser at Telecommunication Wavelengths 2012 ,		3

100	Flexible WDM-PON with Nyquist-FDM and 31.25 Gbit/s per Wavelength Channel Using Colorless, Low-Speed ONUs 2013 ,		3
99	Wireless Transmission at 0.3 THz Using Direct THz-to-Optical Conversion at the Receiver 2018 ,		3
98	Femtojoule modulation and frequency comb generation in silicon-organic hybrid (SOH) devices 2014 ,		2
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96	Mach-Zehnder interferometer readout for instantaneous sensor calibration and extraction of endlessly unwrapped phase 2017 ,		2
95	Ultra-dense, single-wavelength DFT-spread OFDM PON with laserless 1 Gb/s ONU at only 300 MBd per spectral group 2014 ,		2
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93	10 GBd SOH modulator directly driven by an FPGA without electrical amplification 2014 ,		2
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26	Digital Pulse-Shaping for Spectrally Efficient and Flexible Coherent Optical Networks 2014 ,		1
25	First Monolithic GaAs IQ Electro-optic Modulator, Demonstrated at 150 Gbit/s with 64-QAM 2013 ,		1
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