

Christian Koos

List of Publications by Year in Descending Order

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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.

289 papers	10,223 citations	47 h-index	96 g-index
386 ext. papers	13,365 ext. citations	6.6 avg, IF	5.91 L-index

#	Paper	IF	Citations
289	Ultra-fast optical ranging using quantum-dash mode-locked laser diodes.. <i>Scientific Reports</i> , 2022 , 12, 1076	4.9	1
288	PIXAPP Photonics Packaging Pilot Line development of a silicon photonic optical transceiver with pluggable fiber connectivity. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022 , 1-1	3.8	1
287	Colorless Coherent TDM-PON Based on a Frequency-Comb Laser. <i>Journal of Lightwave Technology</i> , 2022 , 1-1	4	1
286	Wireless THz Transmission Using a Kramers-Kronig Receiver. <i>Springer Series in Optical Sciences</i> , 2022 , 481-485	0.5	
285	320 GHz Analog-to-Digital Converter Exploiting Kerr Soliton Combs and Photonic-Electronic Spectral Stitching 2021 ,		1
284	Optical Arbitrary Waveform Measurement Using Silicon Photonic Slicing Filters. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	0
283	Optical Arbitrary Waveform Measurement (OAWM) on the Silicon Photonic Platform 2021 ,		4
282	Optically Enabled ADCs and Application to Optical Communications. <i>IEEE Open Journal of the Solid-State Circuits Society</i> , 2021 , 1-1		3
281	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
280	Hybrid electro-optic modulator combining silicon photonic slot waveguides with high-k radio-frequency slotlines. <i>Optica</i> , 2021 , 8, 511	8.6	8
279	Field-effect silicon-plasmonic photodetector for coherent T-wave reception. <i>Optics Express</i> , 2021 , 29, 21586-21602	3.3	
278	3D-M3: high-spatial-resolution spectroscopy with extreme AO and 3D-printed micro-lenslets. <i>Applied Optics</i> , 2021 , 60, D108-D121	1.7	2
277	Analysis of Kerr comb generation in silicon microresonators under the influence of two-photon absorption and fast free-carrier dynamics. <i>Physical Review A</i> , 2021 , 103,	2.6	2
276	Superconducting nanowire single-photon detector with 3D-printed free-form microlenses. <i>Optics Express</i> , 2021 , 29, 27708-27731	3.3	0
275	On-sky results for the integrated microlens ring tip-tilt sensor. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, 2517	1.7	
274	Hybrid external-cavity lasers (ECL) using photonic wire bonds as coupling elements. <i>Scientific Reports</i> , 2021 , 11, 16426	4.9	2
273	Integrated phase-sensitive photonic sensors: a system design tutorial. <i>Advances in Optics and Photonics</i> , 2021 , 13, 584	16.7	0

272	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
271	Diffraction-limited integral-field spectroscopy for extreme adaptive optics systems with the multicore fiber-fed integral-field unit. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2020 , 6,	1.1	4
270	An innovative integral field unit upgrade with 3D-printed micro-lenses for the RHEA at Subaru 2020 ,		2
269	Horizontal-Slot Plasmonic-Organic Hybrid (POH) Modulator 2020 ,		1
268	Performance of chip-scale optical frequency comb generators in coherent WDM communications. <i>Optics Express</i> , 2020 , 28, 12897-12910	3.3	10
267	Lasing in SiN-organic hybrid (SiNOH) waveguides. <i>Optics Express</i> , 2020 , 28, 5085-5104	3.3	6
266	Fundamental limitations of spectrally-sliced optically enabled data converters arising from MLL timing jitter. <i>Optics Express</i> , 2020 , 28, 18790-18813	3.3	7
265	Verified equivalent-circuit model for slot-waveguide modulators. <i>Optics Express</i> , 2020 , 28, 12951-12976	3.3	5
264	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
263	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
262	3D-printed optical probes for wafer-level testing of photonic integrated circuits. <i>Optics Express</i> , 2020 , 28, 37996-38007	3.3	5
261	InP/Silicon Hybrid External-Cavity Lasers (ECL) Using Photonic Wirebonds as Coupling Elements 2020 ,		2
260	SOH Mach-Zehnder Modulators for 100 GBd PAM4 Signaling With Sub-1 dB Phase-Shifter Loss 2020 ,		5
259	Multi-core fibre-fed integral-field unit (MCIFU): overview and first-light 2020 ,		2
258	Chip-based frequency combs for wavelength-division multiplexing applications 2020 , 51-102		
257	3D-Printed Scanning-Probe Microscopes with Integrated Optical Actuation and Read-Out. <i>Small</i> , 2020 , 16, e1904695	11	10
256	Generalized Kramers-Kronig receiver for coherent terahertz communications. <i>Nature Photonics</i> , 2020 , 14, 601-606	33.9	46
255	Complexity Analysis of the Kramers-Kronig Receiver. <i>Journal of Lightwave Technology</i> , 2019 , 37, 4295-4307		23

254	Bandwidth and conversion efficiency analysis of dissipative Kerr soliton frequency combs based on bifurcation theory. <i>Physical Review A</i> , 2019 , 100,	2.6	4
253	THz-to-optical conversion in wireless communications using an ultra-broadband plasmonic modulator. <i>Nature Photonics</i> , 2019 , 13, 519-524	33.9	81
252	Capacitively Coupled Silicon-Organic Hybrid Modulator for 200 Gbit/s PAM-4 Signaling 2019 ,		5
251	Photonic-integrated circuits with non-planar topologies realized by 3D-printed waveguide overpasses. <i>Optics Express</i> , 2019 , 27, 17402-17425	3.3	13
250	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
249	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
248	Wireless THz link with optoelectronic transmitter and receiver. <i>Optica</i> , 2019 , 6, 1063	8.6	31
247	Colorless Coherent Passive Optical Network Using a Frequency Comb Local Oscillator 2019 ,		4
246	Generalized Kramers-Kronig Receiver for 16QAM Wireless THZ Transmission AT 110 Gbit/s 2019 ,		2
245	Coherent ePIC Receiver for 64 GBaud QPSK in 0.25 μm Photonic BiCMOS Technology. <i>Journal of Lightwave Technology</i> , 2019 , 37, 103-109	4	17
244	Ultrafast optical ranging using microresonator soliton frequency combs. <i>Science</i> , 2018 , 359, 887-891	33.3	274
243	Silicon-Organic Hybrid (SOH) Mach-Zehnder Modulators for 100 Gbit/s on-off Keying. <i>Scientific Reports</i> , 2018 , 8, 2598	4.9	50
242	In situ 3D nanoprinting of free-form coupling elements for hybrid photonic integration. <i>Nature Photonics</i> , 2018 , 12, 241-247	33.9	150
241	100 GBd Intensity Modulation and Direct Detection With an InP-Based Monolithic DFB Laser Mach-Zehnder Modulator. <i>Journal of Lightwave Technology</i> , 2018 , 36, 97-102	4	56
240	Surface sensing with integrated optical waveguides: a design guideline. <i>Optics Express</i> , 2018 , 26, 19885-19906	3.3	21
239	Coherent modulation up to 100 GBd 16QAM using silicon-organic hybrid (SOH) devices. <i>Optics Express</i> , 2018 , 26, 220-232	3.3	38
238	Robust label-free biosensing using microdisk laser arrays with on-chip references. <i>Optics Express</i> , 2018 , 26, 3161-3173	3.3	24
237	Ultra-high electro-optic activity demonstrated in a silicon-organic hybrid modulator. <i>Optica</i> , 2018 , 5, 7398.6		78

236	Fast and reliable method to estimate losses of single-mode waveguides with an arbitrary 2D trajectory. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018 , 35, 1063-1073 ^{1.8}	2	1073
235	3D-Printed Ultra-Broadband Highly Efficient Out-of-Plane Coupler for Photonic Integrated Circuits 2018 ,		6
234	Hybrid integration of silicon photonics circuits and InP lasers by photonic wire bonding. <i>Optica</i> , 2018 , 5, 876	8.6	74
233	Micro-lens arrays as tip-tilt sensor for single mode fiber coupling 2018 ,		6
232	Lasing in Si3N4-Organic Hybrid (SiNOH) Spiral Resonators 2018 ,		1
231	Terahertz-to-Optical Conversion Using a Plasmonic Modulator 2018 ,		7
230	Demonstration of long-term thermally stable silicon-organic hybrid modulators at 85 °C. <i>Optics Express</i> , 2018 , 26, 27955-27964	3.3	14
229	Electrically packaged silicon-organic hybrid (SOH) I/Q-modulator for 64 GBd operation. <i>Optics Express</i> , 2018 , 26, 34580-34591	3.3	6
228	Transmission of 80-GBd 16-QAM over 300 km and Kramers-Kronig Reception Using a Low-Complexity FIR Hilbert Filter Approximation 2018 ,		14
227	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
226	3D-Printed Optics for Wafer-Scale Probing 2018 ,		2
225	110-m THz Wireless Transmission at 100 Gbit/s Using a Kramers-Kronig Schottky Barrier Diode Receiver 2018 ,		11
224	Optical Filter Requirements for DWDM Transmission Systems with Kramers-Kronig Receivers 2018 ,		1
223	Wireless Transmission at 0.3 THz Using Direct THz-to-Optical Conversion at the Receiver 2018 ,		3
222	Silicon-plasmonic integrated circuits for terahertz signal generation and coherent detection. <i>Nature Photonics</i> , 2018 , 12, 625-633	33.9	38
221	Heterogeneous Integration on Silicon Photonics. <i>Proceedings of the IEEE</i> , 2018 , 106, 2258-2269	14.3	21
220	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
219	Microresonator-based solitons for massively parallel coherent optical communications. <i>Nature</i> , 2017 , 546, 274-279	50.4	427

218	Photonic molecules with a tunable inter-cavity gap. <i>Light: Science and Applications</i> , 2017 , 6, e16224	16.7	30
217	Silicon-Organic and Plasmonic-Organic Hybrid Photonics. <i>ACS Photonics</i> , 2017 , 4, 1576-1590	6.3	85
216	Nanophotonic modulators and photodetectors using silicon photonic and plasmonic device concepts 2017 ,		1
215	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
214	On the determination of Γ in thin films: a comparison of one-beam second-harmonic generation measurement methodologies. <i>Scientific Reports</i> , 2017 , 7, 44581	4.9	15
213	Wireless multi-subcarrier THz communications using mixing in a photoconductor for coherent reception 2017 ,		5
212	Four-Channel 784 Gbit/s Transmitter Module Enabled by Photonic Wire Bonding and Silicon-Organic Hybrid Modulators 2017 ,		1
211	Mach-Zehnder interferometer readout for instantaneous sensor calibration and extraction of endlessly unwrapped phase 2017 ,		2
210	Size-optimized polymeric whispering gallery mode lasers with enhanced sensing performance. <i>Optics Express</i> , 2017 , 25, 7884-7894	3.3	16
209	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
208	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
207	Spectral signature of nonlinear effects in semiconductor optical amplifiers. <i>Optics Express</i> , 2017 , 25, 29536-29559	3.3	39
206	Silicon photonic integrated circuit for fast and precise dual-comb distance metrology. <i>Optics Express</i> , 2017 , 25, 30091-30104	3.3	11
205	Custom-Designed Glassy Carbon Tips for Atomic Force Microscopy. <i>Micromachines</i> , 2017 , 8,	3.3	23
204	Record-High In-Device Electro-Optic Coefficient of 359 pm/V in a Silicon-Organic Hybrid (SOH) Modulator 2017 ,		9
203	WDM Transmission Using Quantum-Dash Mode-Locked Laser Diodes as Multi-Wavelength Source and Local Oscillator 2017 ,		11
202	32QAM WDM Transmission Using a Quantum-Dash Passively Mode-Locked Laser with Resonant Feedback 2017 ,		15
201	100 GBd Intensity Modulation and Direct Detection with an InP-based Monolithic DFB Laser Mach-Zehnder Modulator 2017 ,		10

200	8-channel 448 Gbit/s Silicon Photonic Transmitter Enabled by Photonic Wire Bonding 2017 ,		7
199	Silicon-Organic Hybrid (SOH) IQ Modulator for 100 GBd 16QAM Operation 2017 ,		6
198	CMOS-Compatible ALD Zinc Oxide Coating for On-Chip Second-Order Nonlinear Optical Functionalities 2017 ,		1
197	Ultrafast Dual-Comb Distance Metrology Using Dissipative Kerr Solitons 2017 ,		1
196	Wireless THz Communications Using Optoelectronic Techniques for Signal Generation and Coherent Reception 2017 ,		2
195	100 Gbit/s Serial Transmission Using a Silicon-Organic Hybrid (SOH) Modulator and a Duobinary Driver IC 2017 ,		5
194	Multiscale dispersion-state characterization of nanocomposites using optical coherence tomography. <i>Scientific Reports</i> , 2016 , 6, 31733	4.9	9
193	Lasing in silicon-organic hybrid waveguides. <i>Nature Communications</i> , 2016 , 7, 10864	17.4	24
192	Optical coherence tomography system mass-producible on a silicon photonic chip. <i>Optics Express</i> , 2016 , 24, 1573-86	3.3	33
191	The Effects of Oil Production and Ethnic Representation on Violent Conflict in Nigeria: A Mixed-Methods Approach. <i>Terrorism and Political Violence</i> , 2016 , 28, 888-911	1.2	9
190	Does violence pay? The effect of ethnic rebellion on overcoming political deprivation. <i>Conflict Management and Peace Science</i> , 2016 , 33, 3-24	0.9	5
189	Silicon-Organic Hybrid (SOH) and Plasmonic-Organic Hybrid (POH) Integration. <i>Journal of Lightwave Technology</i> , 2016 , 34, 256-268	4	89
188	Second-harmonic generation from ZnO/Al ₂ O ₃ laminate optical metamaterials grown by atomic-layer deposition 2016 ,		1
187	Lenses for Low-Loss Chip-to-Fiber and Fiber-to-Fiber Coupling Fabricated by 3D Direct-Write Lithography 2016 ,		4
186	Silicon-Plasmonic Photomixer for Generation and Homodyne Reception of Continuous-Wave THz Radiation 2016 ,		2
185	8.32 Tbit/s Coherent Transmission Using a Quantum-Dash Mode-Locked Laser Diode 2016 ,		5
184	50 Tbit/s Massively Parallel WDM Transmission in C and L Band Using Interleaved Cavity-Soliton Kerr Combs 2016 ,		2
183	Multi-Chip Integration by Photonic Wire Bonding: Connecting Surface and Edge Emitting Lasers to Silicon Chips 2016 ,		3

182	An Energy-Efficient 252 Gbit/s Silicon-Based IQ-Modulator 2016 ,		2
181	Multi-wavelength coherent transmission using an optical frequency comb as a local oscillator. <i>Optics Express</i> , 2016 , 24, 25432-25445	3.3	27
180	Second-Harmonic Generation from ZnO/Al ₂ O ₃ Nanolaminate Optical Metamaterials Grown by Atomic-Layer Deposition. <i>Advanced Optical Materials</i> , 2016 , 4, 1203-1208	8.1	18
179	Tailored probes for atomic force microscopy fabricated by two-photon polymerization. <i>Applied Physics Letters</i> , 2016 , 109, 063101	3.4	23
178	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
177	NLO: ELECTRO-OPTIC APPLICATIONS. <i>Materials and Energy</i> , 2016 , 369-396		1
176	Integrated optical frequency shifter in silicon-organic hybrid (SOH) technology. <i>Optics Express</i> , 2016 , 24, 11694-707	3.3	21
175	Silicon-plasmonic internal-photoemission detector for 40 Gbit/s data reception. <i>Optica</i> , 2016 , 3, 741	8.6	54
174	Connecting Silicon Photonic Circuits to Multicore Fibers by Photonic Wire Bonding. <i>Journal of Lightwave Technology</i> , 2015 , 33, 755-760	4	60
173	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
172	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
171	Digitally Controlled Phase Shifter Using an SOI Slot Waveguide With Liquid Crystal Infiltration. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1269-1272	2.2	29
170	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
169	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
168	Flexible terabit/s Nyquist-WDM super-channels using a gain-switched comb source. <i>Optics Express</i> , 2015 , 23, 724-38	3.3	38
167	Efficient free-space read-out of WGM lasers using circular micromirrors. <i>Optics Express</i> , 2015 , 23, 1025-34	3.3	13
166	Synthetic-wavelength interferometry improved with frequency calibration and unambiguity range extension. <i>Applied Optics</i> , 2015 , 54, 6334-43	0.2	5
165	Stacked modulation formats enabling highest-sensitivity optical free-space links. <i>Optics Express</i> , 2015 , 23, 21942-57	3.3	7

164	Measurement of Length and Position with Frequency Combs. <i>Journal of Physics: Conference Series</i> , 2015 , 605, 012030	0.3	6
163	Phase-noise compensated carriers from an optical frequency comb allowing terabit transmission 2015 ,		4
162	Terabit/s communications using chip-scale frequency comb sources 2015 ,		1
161	Full C and L-Band Transmission at 20 Tbit/s Using Cavity-Soliton Kerr Frequency Combs 2015 ,		6
160	64 GBd Operation of a Silicon-Organic Hybrid Modulator at Elevated Temperature 2015 ,		1
159	Simultaneous Phase Noise Reduction of 30 Comb Lines from a Quantum-Dash Mode-Locked Laser Diode Enabling Coherent Tbit/s Data Transmission 2015 ,		7
158	All-polymer photonic sensing platform based on whispering-gallery mode microgoblet lasers. <i>Lab on A Chip</i> , 2015 , 15, 3800-6	7.2	46
157	When Do Religious Leaders Support Faith-Based Violence? Evidence from a Survey Poll in South Sudan. <i>Political Research Quarterly</i> , 2015 , 68, 760-772	1.5	9
156	Densely Packed Microgoblet Laser Pairs for Cross-Referenced Biomolecular Detection. <i>Advanced Science</i> , 2015 , 2, 1500066	13.6	19
155	Biosensing: Densely Packed Microgoblet Laser Pairs for Cross-Referenced Biomolecular Detection (Adv. Sci. 10/2015). <i>Advanced Science</i> , 2015 , 2,	13.6	78
154	Optical loss by surface transfer doping in silicon waveguides. <i>Applied Physics Letters</i> , 2015 , 107, 031107	3.4	6
153	Second-order nonlinear optical metamaterials: ABC-type nanolaminates. <i>Applied Physics Letters</i> , 2015 , 107, 121903	3.4	33
152	Plasmonic Internal Photoemission Detectors with Responsivities above 0.12 A/W 2015 ,		3
151	Silicon-Organic Hybrid (SOH) and Plasmonic-Organic Hybrid (POH) Integration 2015 ,		4
150	Coherent Terabit Communications Using a Quantum-Dash Mode-Locked Laser and Self-Homodyne Detection 2015 ,		5
149	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
148	Ultra-Broadband Bidirectional Dual-Band Quantum-Dot Semiconductor Optical Amplifier 2015 ,		5
147	Multi-Chip Integration of Lasers and Silicon Photonics by Photonic Wire Bonding 2015 ,		3

146	Femtojoule electro-optic modulation using a silicon-organic hybrid device. <i>Light: Science and Applications</i> , 2015 , 4, e255-e255	16.7	136
145	100 Gbit/s OOK using a silicon-organic hybrid (SOH) modulator 2015 ,		8
144	High-speed and low-power silicon-organic hybrid modulators for advanced modulation formats 2015 ,		3
143	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
142	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
141	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
140	High-speed plasmonic phase modulators. <i>Nature Photonics</i> , 2014 , 8, 229-233	33.9	376
139	Large-scale parallel surface functionalization of goblet-type whispering gallery mode microcavity arrays for biosensing applications. <i>Small</i> , 2014 , 10, 3863-8	11	31
138	Connecting silicon photonic circuits to multi-core fibers by photonic wire bonding 2014 ,		3
137	100 Millionen Telefongespräche über einen Frequenzkamm. <i>Physik in Unserer Zeit</i> , 2014 , 45, 163-165	0.1	
136	. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-9	1.8	15
135	Femtojoule modulation and frequency comb generation in silicon-organic hybrid (SOH) devices 2014 ,		2
134	Coherent terabit communications with microresonator Kerr frequency combs. <i>Nature Photonics</i> , 2014 , 8, 375-380	33.9	358
133	Photonic-to-plasmonic mode converter. <i>Optics Letters</i> , 2014 , 39, 3488-91	3	18
132	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
131	Silicon Photonic Optical Coherence Tomography System 2014 ,		1
130	Integrated Silicon-Organic Hybrid (SOH) Frequency Shifter 2014 ,		4
129	Ultra-dense, single-wavelength DFT-spread OFDM PON with laserless 1 Gb/s ONU at only 300 MBd per spectral group 2014 ,		2

128	Organic semiconductor distributed feedback laser pixels for lab-on-a-chip applications fabricated by laser-assisted replication. <i>Faraday Discussions</i> , 2014 , 174, 153-64	3.6	11
127	100 GHz silicon-organic hybrid modulator. <i>Light: Science and Applications</i> , 2014 , 3, e173-e173	16.7	198
126	Why and How Civil Defense Militias Emerge: The Case of the Arrow Boys in South Sudan. <i>Studies in Conflict and Terrorism</i> , 2014 , 37, 1039-1057	0.9	12
125	Organic semiconductor distributed feedback laser as excitation source in Raman spectroscopy using free-beam and fibre coupling 2014 ,		2
124	Direct digital control of an efficient silicon+liquid crystal phase shifter 2014 ,		2
123	Ultra-short silicon-organic hybrid (SOH) modulator for bidirectional polarization-independent operation 2014 ,		2
122	Absolutely referenced distance measurement by combination of time-of-flight and digital holographic methods 2014 ,		1
121	10 GBd SOH modulator directly driven by an FPGA without electrical amplification 2014 ,		2
120	Terabit/s optical transmission using chip-scale frequency comb sources 2014 ,		2
119	High-Speed Silicon-Organic Hybrid (SOH) Modulators with 230 pm/V Electro-Optic Coefficient Using Advanced Materials 2014 ,		4
118	Flexible real-time transmitter at 10 Gbit/s for SCFDMA PONs focusing on low-cost ONUs 2014 ,		2
117	Silicon-organic hybrid (SOH) frequency comb sources for terabit/s data transmission. <i>Optics Express</i> , 2014 , 22, 3629-37	3.3	72
116	Timing, carrier frequency and phase recovery for OFDM and Nyquist signals using a mean modulus algorithm. <i>Optics Express</i> , 2014 , 22, 9344-59	3.3	
115	Full flex-grid asynchronous multiplexing demonstrated with Nyquist pulse-shaping. <i>Optics Express</i> , 2014 , 22, 10923-37	3.3	10
114	Amplification of advanced modulation formats with a semiconductor optical amplifier cascade. <i>Optics Express</i> , 2014 , 22, 17854-71	3.3	16
113	Low-power silicon-organic hybrid (SOH) modulators for advanced modulation formats. <i>Optics Express</i> , 2014 , 22, 29927-36	3.3	49
112	Real-time Nyquist signaling with dynamic precision and flexible non-integer oversampling. <i>Optics Express</i> , 2014 , 22, 193-209	3.3	7
111	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

110	Biosensors: Large-Scale Parallel Surface Functionalization of Goblet-type Whispering Gallery Mode Microcavity Arrays for Biosensing Applications (Small 19/2014). <i>Small</i> , 2014 , 10, 4032-4032	11	
109	From silicon-organic hybrid to plasmonic modulation 2014 ,		1
108	Wireless sub-THz communication system with high data rate enabled by RF photonics and active MMIC technology 2014 ,		11
107	Transmission of a 1.44 Tbit/s Data Stream using a Feedback-Stabilized SiN Kerr Frequency Comb Source 2014 ,		1
106	Blind Polarization Demultiplexing With Low Computational Complexity. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 1230-1233	2.2	10
105	Pulse-Shaping With Digital, Electrical, and Optical FiltersA Comparison. <i>Journal of Lightwave Technology</i> , 2013 , 31, 2570-2577	4	39
104	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
103	. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 701-704	2.2	44
102	Wireless sub-THz communication system with high data rate. <i>Nature Photonics</i> , 2013 , 7, 977-981	33.9	726
101	EVM as new quality metric for optical modulation analysis 2013 ,		2
100	High-speed, low-power optical modulators in silicon 2013 ,		3
99	Silicon-organic hybrid devices 2013 ,		2
98	Plasmonic Communications: Light on a Wire. <i>Optics and Photonics News</i> , 2013 , 24, 28	1.9	62
97	Low-Loss Silicon Strip-to-Slot Mode Converters. <i>IEEE Photonics Journal</i> , 2013 , 5, 2200409-2200409	1.8	60
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94	Photonic wire bonding: connecting nanophotonic circuits across chip boundaries 2013 ,		2
93	Silicon-Organic Hybrid (SOH) Modulator Generating up to 84 Gbit/s BPSK and M-ASK Signals 2013 ,		2

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