Juerg Leuthold

List of Publications by Year
in descending order

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		9786	5679
680	29,704	73	162
papers	citations	h-index	g-index

686	686	686	17737
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design and synthesis of chromophores with enhanced electro-optic activities in both bulk and plasmonicâ€“organic hybrid devices. Materials Horizons, 2022, 9, 261-270.	12.2	34
2	Optical Memristive Switches. Kluwer International Series in Electronic Materials: Science and Technology, 2022, , 355-376.	0.5	0
3	Metasurface Colloidal Quantum Dot Photodetectors. ACS Photonics, 2022, 9, 482-492.	6.6	11
4	Transparent Optical-THz-Optical Link at 240/192 Gbit/s Over 5/115 m Enabled by Plasmonics. Journal of Lightwave Technology, 2022, 40, 1690-1697.	4.6	24
5	Waveguide coupled III-V photodiodes monolithically integrated on Si. Nature Communications, 2022, 13, 909.	12.8	35
6	Atomic scale memristive photon source. Light: Science and Applications, 2022, 11, 78.	16.6	9
7	Reducing Training Time of Deep Learning Based Digital Backpropagation by Stacking. IEEE Photonics Technology Letters, 2022, 34, 387-390.	2.5	1
8	Carbon ablators with porosity tailored for aerospace thermal protection during atmospheric re-entry. Carbon, 2022, 195, 80-91.	10.3	20
9	Generation and transmission of 160-Gbaud QPSK Coherent Signals using a Dual-Drive Plasmonic-Organic Hybrid I/Q modulator on Silicon Photonics. , 2022, , .		1
10	Experimental Evaluation of PAM and Polybinary Modulation for Intra-DCI Optical Lanes with up to 300 Gbit/s Net Bitrates. , 2022, , .		1
11	180 GBd Electronic-Plasmonic IC Transmitter. , 2022, , .		3
12	Enhanced Stability of Resonant Racetrack Plasmonic-Organic-Hybrid Modulators. , 2022, , .		3
13	Ultrahigh-Net-Bitrate 363 Gbit/s PAM-8 and 279 Gbit/s Polybinary Optical Transmission Using Plasmonic Mach-Zehnder Modulator. Journal of Lightwave Technology, 2022, 40, 3338-3346.	4.6	21
14	Modeling Hydrodynamic Charge Transport in Graphene. Materials, 2022, 15, 4141.	2.9	1
15	Plasmonics in Future Radio Communications: Potential and Challenges. , 2022, , .		0
16	100-GBd Waveguide Bragg Grating Modulator in Thin-Film Lithium Niobate. IEEE Photonics Technology Letters, 2021, 33, 85-88.	2.5	37
17	Metallic Grating Couplers â€“ Broadband and Efficient. , 2021, , .		0
18	Plasmonic modulators and photodetectors for communications. , 2021, , .		2

#	Article	IF	Citations
19	Deep learning based digital backpropagation enabling SNR gain at low complexity. , 2021, , .		0
20	Plasmonicsâ€"high-speed photonics for co-integration with electronics. Japanese Journal of Applied Physics, 2021, 60, SB0806.	1.5	12
21	Broadband Metallic Fiber-to-Chip Couplers and a Low-Complexity Integrated Plasmonic Platform. Nano Letters, 2021, 21, 4539-4545.	9.1	18
22	Coupled Electromagnetic and Hydrodynamic Modeling for Semiconductors Using DGTD. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	5
23	2x4 Spatial Switch Exploiting On-Chip Beam Steering. , 2021, , .		0
24	High-Speed Graphene Photodetection: 300 GHz is not the Limit. , 2021, , .		7
25	Threshold Switching Enabled Sub-pW-Leakage, Hysteresis-Free Circuits. IEEE Transactions on Electron Devices, 2021, 68, 3112-3118.	3.0	1
26	Î¼W Pumping for MHz Photon Pair Generation Rates Enabled by Ï‡(2) Organic Chromophores. , 2021, , .		0
27	Analog Nanoscale Electro-Optical Synapses for Neuromorphic Computing Applications. ACS Nano, 2021, 15, 14776-14785.	14.6	35
28	Broadband, highly reflective thermal protection systems, exploiting photonic additives. International Journal of Thermal Sciences, 2021, 170, 107146.	4.9	2
29	High-speed CMOS-compatible III-V on Si membrane photodetectors. Optics Express, 2021, 29, 509.	3.4	21
30	Plasmonic Data Center Interconnects (DCIs). , 2021, , .		1
31	Photonic response and temperature evolution of SiO2/TiO2 multilayers. Journal of Materials Science, 2021, 56, 18440-18452.	3.7	2
32	On-demand emission from Tamm plasmons. Nature Materials, 2021, 20, 1595-1596.	27.5	2
33	Transparent Optical-THz-Optical Link Transmission over 5/115 m at 240/190 Gbit/s Enabled by Plasmonics. , 2021, , .		12
34	Butt-Coupled III-V Photodetector Monolithically Integrated on SOI with data reception at 50 Gbps OOK. , 2021, , .		2
35	Plasmonic-MZM-based Short-Reach Transmission up to 10 km Supporting >304 GBd Polybinary or 432 Gbit/s PAM-8 Signaling. , 2021, , .		10
36	Plasmonic Racetrack Modulator Transmitting 220 Gbit/s OOK and 408 Gbit/s 8PAM. , 2021, , .		10

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37	Electrically Tunable Graphene Organic Hybrid Ring Resonators. , 2021, , .		0
38	>150 GHz Hybrid-Plasmonic BaTiO3-On-SOI Modulator for CMOS Foundry Integration. , 2021, , .		2
39	Broadband, High-Temperature Stable Reflector for Aerospace Thermal Radiation Protection. ACS Applied Materials & Interfaces, 2020, 12, 9925-9934.	8.0	18
40	Highâ€Resolution Onâ€Demand Nanostructures. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900688.	1.8	1
41	Design of CMOS-compatible metalâ€“insulatorâ€“metal metasurfaces via extended equivalent-circuit analysis. Scientific Reports, 2020, 10, 17941.	3.3	6
42	Electromagnetic and Semiconductor Modeling of Scanning Microwave Microscopy Setups. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2020, 5, 209-216.	2.2	5
43	Advanced Modelling Techniques for Resonator Based Dielectric and Semiconductor Materials Characterization. Applied Sciences (Switzerland), 2020, 10, 8533.	2.5	1
44	Opto-electronic memristors: Prospects and challenges in neuromorphic computing. Applied Physics Letters, 2020, 117, .	3.3	39
45	A monolithic bipolar CMOS electronicâ€“plasmonic high-speed transmitter. Nature Electronics, 2020, 3, 338-345.	26.0	89
46	Ultra-High-Speed 2:1 Digital Selector and Plasmonic Modulator IM/DD Transmitter Operating at 222ÂGBaud for Intra-Datacenter Applications. Journal of Lightwave Technology, 2020, 38, 2734-2739.	4.6	45
47	Waveguide-integrated van der Waals heterostructure photodetector at telecom wavelengths with high speed and high responsivity. Nature Nanotechnology, 2020, 15, 118-124.	31.5	208
48	Compact Mid-Infrared Gas Sensing Enabled by an All-Metamaterial Design. Nano Letters, 2020, 20, 4169-4176.	9.1	83
49	100 GBd IM/DD transmission over 14â€…km SMF in the C-band enabled by a plasmonic SSB MZM. Optics Express, 2020, 28, 8601.	3.4	13
50	Deep learning based digital backpropagation demonstrating SNR gain at low complexity in a 1200â€…km transmission link. Optics Express, 2020, 28, 29318.	3.4	36
51	Coherent few mode demultiplexer realized as a 2D grating coupler array in silicon. Optics Express, 2020, 28, 36009.	3.4	19
52	High-Speed Plasmonic Modulator for Simultaneous C- and O-Band Modulation with Simplified Fabrication. , 2020, , .		1
53	Deep Learning Based Digital Back Propagation with Polarization State Rotation & Phase Noise Invariance. , 2020, , .		9
54	Electro-optic interface for ultrasensitive intracavity electric field measurements at microwave and terahertz frequencies. Optica, 2020, 7, 498.	9.3	39

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55	Atomic-Scale Photonic Memristive and Nano-Opto-Electro-Mechanical Devices Enabled by Plasmonics. , 2020, , .		0
56	Ultra-steep-slope transistor enabled by an atomic memristive switch. , 2020, , .		1
57	Novel applications of plasmonics and photonics devices to sub-THz wireless. , 2020, , .		2
58	100 Gbit/s NRZ Data Modulation in Plasmonic Racetrack Modulators on the Silicon Photonic Platform. , 2020, , .		3
59	MEMS Plasmonics and Memristive Plasmonics for Optical Communications. , 2020, , .		0
60	Terahertz quantum optics in the time-domain: from field correlation measurements on vacuum field fluctuations in free space towards cavity electro-optics. , 2020, , .		0
61	Low-Power Data Center Transponders Enabled by Micrometer-scale Plasmonic Modulators. , 2020, , .		1
62	Sub-micron Plasmonic Waveguide Resonator. , 2020, , .		0
63	Integrated Plasmonic Terahertz Field Detector. , 2020, , .		0
64	Broadband, Temperature-Stable, Reflective Additives to Enhance Thermal Radiation Protection Systems. , 2020, , .		0
65	Localization of Micro Unmanned Aerial Vehicles using Digital Audio Broadcast Signals. , 2020, , .		2
66	Electro-optic interface for ultrasensitive intra-cavity electric field sensing. , 2020, , .		0
67	2-D Grating Couplers for Vertical Fiber Coupling in Two Polarizations. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	38
68	Nanoâ€“opto-electro-mechanical switches operated at CMOS-level voltages. Science, 2019, 366, 860-864.	12.6	64
69	Large impact of strain on the electro-optic effect in (Ba, Sr)TiO3 thin films: Experiment and theoretical comparison. Applied Physics Letters, 2019, 115, .	3.3	20
70	Radiative transfer in porous carbon-fiber materials for thermal protection systems. International Journal of Heat and Mass Transfer, 2019, 144, 118582.	4.8	17
71	500 GHz plasmonic Mach-Zehnder modulator enabling sub-THz microwave photonics. APL Photonics, 2019, 4, .	5.7	176
72	Plasmonic IQ modulators with attojoule per bit electrical energy consumption. Nature Communications, 2019, 10, 1694.	12.8	112

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73	400G Probabilistic Shaped PDM-64QAM Synchronization in the Frequency Domain. IEEE Photonics Technology Letters, 2019, 31, 697-700.	2.5	3
74	All-Plasmonic IQ Modulator With a 36 Î¼m Fiber-to-Fiber Pitch. Journal of Lightwave Technology, 2019, 37, 1492-1497.	4.6	10
75	Ultra compact electrochemical metallization cells offering reproducible atomic scale memristive switching. Communications Physics, 2019, 2, .	5.3	35
76	Reduced Equalization Needs of 100 GHz Bandwidth Plasmonic Modulators. Journal of Lightwave Technology, 2019, 37, 2050-2057.	4.6	14
77	Ultra-Compact Terabit Plasmonic Modulator Array. Journal of Lightwave Technology, 2019, 37, 1484-1491.	4.6	26
78	Monolithic high-speed transmitter enabled by bicmos-plasmonic platform. , 2019, , .		3
79	222-GBaud on-off keying transmitter using ultra-high-speed 2:1-selector and plasmonic modulator on silicon photonics. , 2019, , .		6
80	Time-domain Coupled Full Maxwell- and Drift-Diffusion-Solver for Simulating Scanning Microwave Microscopy of Semiconductors. , 2019, , .		5
81	Plasmonics for Communications. , 2019, , .		0
82	300 GHz Plasmonic Mixer. , 2019, , .		6
83	Flexible Electromagnetic Modeling of SMM Setups with FE and FDTD Methods. , 2019, , .		3
84	Compact and ultra-efficient broadband plasmonic terahertz field detector. Nature Communications, 2019, 10, 5550.	12.8	77
85	A 325 GHz Analog Photonic Link. , 2019, , .		0
86	Large Pockels effect in micro- and nanostructured barium titanate integrated on silicon. Nature Materials, 2019, 18, 42-47.	27.5	311
87	Plasmonic Ferroelectric Modulators. Journal of Lightwave Technology, 2019, 37, 281-290.	4.6	54
88	Plasmonically Enhanced Graphene Photodetector Featuring 100 Gbit/s Data Reception, High Responsivity, and Compact Size. ACS Photonics, 2019, 6, 154-161.	6.6	169
89	Light Emission from a Waveguide Integrated MOS Tunnel Junction. , 2019, , .		4
90	Sub-V Opto-Electro-Mechanical Switch. , 2019, , .		3

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91	500 GHz Plasmonic Mach-Zehnder Modulator. , 2019, , .		3
92	Ultra-Compact All-Metamaterial NDIR CO2 Sensor. , 2019, , .		1
93	Low-loss hybrid plasmonic coupler. Optics Express, 2019, 27, 11862.	3.4	19
94	120 GBd plasmonic Mach-Zehnder modulator with a novel differential electrode design operated at a peak-to-peak drive voltage of 178 mV. Optics Express, 2019, 27, 16823.	3.4	44
95	Compact, ultra-broadband plasmonic grating couplers. Optics Express, 2019, 27, 29719.	3.4	11
96	Sub-fJ/bit Operation of 100 GBd Plasmonic IQ Modulators. , 2019, , .		1
97	MoTe2 Vertical Heterostructure Waveguide Detector. , 2019, , .		0
98	Dual-Drive Plasmonic Transmitter with Co-Designed Driver Electronics operated at 120 GBd On-Off Keying. , 2019, , .		0
99	All-Plasmonic 100 GBd Optical Communication Link. , 2019, , .		0
100	Integrated photonic and plasmonic technologies for microwave signal processing enabling mm-wave and sub-THz wireless communication systems. , 2019, , .		1
101	Three-Dimensional Phase Modulator at Telecom Wavelength Acting as a Terahertz Detector with an Electro-Optic Bandwidth of 1.25 Terahertz. ACS Photonics, 2018, 5, 1398-1403.	6.6	34
102	Low-loss plasmon-assisted electro-optic modulator. Nature, 2018, 556, 483-486.	27.8	312
103	Method for traceable measurement of LTE signals. Metrologia, 2018, 55, 284-293.	1.2	0
104	Fast MoTe₂ Waveguide Photodetector with High Sensitivity at Telecommunication Wavelengths. ACS Photonics, 2018, 5, 1846-1852.	6.6	83
105	MMP Simulation of Plasmonic Particles on Substrate Under E-Beam Illumination. Springer Series on Atomic, Optical, and Plasma Physics, 2018, , 121-145.	0.2	2
106	Optical Transmitters without Driver Amplifiersâ€"Optimal Operation Conditions. Applied Sciences (Switzerland), 2018, 8, 1652.	2.5	5
107	Scaling Optical Interconnects Beyond 400 Gb/s. , 2018, , .		0
108	Steering and Shaping of Multiple Beams with a Spatial Light Modulator based Beamformer. , 2018, , .		1

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109	Machine Learning for Analysis of Time-Resolved Luminescence Data. ACS Photonics, 2018, 5, 4888-4895.	6.6	29
110	Organics-Based Phase Modulator for Terahertz Detection up to 1.25 THz. , 2018, , .		0
111	Nonlinear Distortions in Plasmonic Mach-Zehnder Modulators. , 2018, , .		1
112	Ultra-Compact 0.8 Tbit/s Plasmonic Modulator Array. , 2018, , .		3
113	All-Plasmonic IQ Modulator with <tex>$36 mumathrm{m}$</tex> Fiber-to-Fiber Pitch. , 2018, , .		0
114	100 GBd Ultra-Compact Plasmonic Graphene Photodetector. , 2018, , .		1
115	What can Plasmonics Bring to Microwave Photonics?. , 2018, , .		0
116	Bypassing Loss in Plasmonic Modulators. , 2018, , .		1
117	Integrated Ferroelectric BaTiO3/Si Plasmonic Modulator for 100 Gbit/s and Beyond. , 2018, , .		7
118	Photonic-Plasmonic Hybrid Waveguide Couplers with a 91% Efficiency. , 2018, , .		1
119	Microwave plasmonic mixer in a transparent fibreâ€“wireless link. Nature Photonics, 2018, 12, 749-753.	31.4	67
120	Low-Complexity Real-Time Receiver for Coherent Nyquist-FDM Signals. Journal of Lightwave Technology, 2018, 36, 5728-5737.	4.6	21
121	Plasmonic Resonators for High-speed Communication. , 2018, , .		0
122	Digital Post-Distortion for Cost-Efficient Driverless Optical Transmitters. , 2018, , .		1
123	Plasmonic Photodetectors. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-13.	2.9	88
124	Time-to-Space Division Multiplexing for Tb/s Mobile Cells. IEEE Transactions on Wireless Communications, 2018, 17, 4806-4818.	9.2	6
125	100 GHz Plasmonic Photodetector. ACS Photonics, 2018, 5, 3291-3297.	6.6	146
126	Atomic Scale Photodetection Enabled by a Memristive Junction. ACS Nano, 2018, 12, 6706-6713.	14.6	37

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127	Correlation between electrical direct current resistivity and plasmonic properties of CMOS compatible titanium nitride thin films. Optics Express, 2018, 26, 9813.	3.4	4
128	Optimization of Plasmonic-Organic Hybrid Electro-Optics. Journal of Lightwave Technology, 2018, 36, 5036-5047.	4.6	41
129	Pockels-Effect Materials for Plasmonic Modulators. , 2018, , .		0
130	Efficient Machine Learning Algorithms to Analyze Time-Resolved Luminescence Data. , 2018, , .		0
131	Plasmonics for Next-Generation Wireless Systems. , 2018, , .		0
132	Exposure measurement platform for electromagnetic field monitoring and epidemiological research. TM Technisches Messen, 2018, 85, 312-320.	0.7	0
133	Survey of Photonic and Plasmonic Interconnect Technologies for Intra-Datacenter and High-Performance Computing Communications. IEEE Communications Surveys and Tutorials, 2018, 20, 2758-2783.	39.4	90
134	100 GBd Plasmonic IQ Modulator. , 2018, , .		7
135	100 Gbit/s Graphene Photodetector. , 2018, , .		2
136	Dielectric Layers in Plasmonic-Organic Hybrid Modulators. , 2018, , .		2
137	Driver-Less Sub 1 Vpp Operation of a Plasmonic-Organic Hybrid Modulator at 100 GBd NRZ. , 2018, , .		12
138	Plasmonics for Communications. , 2018, , .		3
139	Highly Selective All-Metamaterial Optical CO2 Sensor. , 2018, , .		1
140	16 Gb/s Microring-to-Microring Photonic Link in 45 nm Monolithic Zero-Change CMOS. , 2018, , .		2
141	Plasmonics for RF Photonics. , 2018, , .		0
142	Plasmonic-Organic Hybrid Modulators for Optical Interconnects beyond 100G/Î». , 2018, , .		1
143	Ultrafast Beam Steering Enabled by Photonics & Plasmonics. , 2018, , .		1
144	Integrated Electro-optic Bragg Modulators in Lithium Niobate Nanowaveguides. , 2018, , .		0

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145	100 GHz Photoconductive Plasmonic Germanium Detector. , 2018, , .		1
146	Low Complexity Real-Time Carrier Recovery for 64APSK with Polar Coordinates Processing. , 2018, , .		0
147	Multi-scale theory-assisted nano-engineering of plasmonic-organic hybrid electro-optic device performance. , 2018, , .		1
148	Single atom electronics and photonics (Conference Presentation). , 2018, , .		0
149	Reliable and lightningâ€safe monitoring of wind turbine rotor blades using optically powered sensors. Wind Energy, 2017, 20, 345-360.	4.2	22
150	On-Chip Narrowband Thermal Emitter for Mid-IR Optical Gas Sensing. ACS Photonics, 2017, 4, 1371-1380.	6.6	190
151	Optical memristive switches. Journal of Electroceramics, 2017, 39, 239-250.	2.0	40
152	Siliconâ€“Organic and Plasmonicâ€“Organic Hybrid Photonics. ACS Photonics, 2017, 4, 1576-1590.	6.6	123
153	Nanophotonic modulators and photodetectors using silicon photonic and plasmonic device concepts. , 2017, , .		3
154	High-speed plasmonic modulator in a single metal layer. Science, 2017, 358, 630-632.	12.6	236
155	Perpendicular Grating Coupler Based on a Blazed Antiback-Reflection Structure. Journal of Lightwave Technology, 2017, 35, 4663-4669.	4.6	103
156	PIPED: A silicon-plasmonic high-speed photodetector. , 2017, , .		1
157	Optical Interconnect Solution With Plasmonic Modulator and Ge Photodetector Array. IEEE Photonics Technology Letters, 2017, 29, 1760-1763.	2.5	19
158	Effect of Rigid Bridge-Protection Units, Quadrupolar Interactions, and Blending in Organic Electro-Optic Chromophores. Chemistry of Materials, 2017, 29, 6457-6471.	6.7	76
159	Keynote Tu-K: Plasmonics â€" A path to replace photonics by a scalable, ultrafast technology?. , 2017, , .		0
160	Ab-initio modeling of CBRAM cells: From ballistic transport properties to electro-thermal effects. , 2017, , .		7
161	Self-Seeded RSOA Fiber Cavity Laser and the Role of Rayleigh Backscatteringâ€"An Analytical Model. Journal of Lightwave Technology, 2017, 35, 4845-4850.	4.6	2
162	Remote inâ€building motion detection using single frequency technique. Electronics Letters, 2017, 53, 997-1001.	1.0	0

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163	Cascaded all-optical sub-channel add/drop multiplexing from a 1-Tb/s MB-OFDM or N-WDM super-channel with ultra-low guard-bands. , 2017, , .		1
164	PAM-8 108 Gbit/s transmission using an 850nm multi-mode VCSEL. , 2017, , .		2
165	Modified Godard Timing Recovery for Non Integer Oversampling Receivers. Applied Sciences (Switzerland), 2017, 7, 655.	2.5	26
166	Characterization of CMOS metal based dielectric loaded surface plasmon waveguides at telecom wavelengths. Optics Express, 2017, 25, 394.	3.4	26
167	Plasmonic modulator with >170 GHz bandwidth demonstrated at 100 GBd NRZ. Optics Express, 2017, 25, 1762.	3.4	125
168	Nonlinearities of organic electro-optic materials in nanoscale slots and implications for the optimum modulator design. Optics Express, 2017, 25, 2627.	3.4	114
169	Constellation modulation â€“ an approach to increase spectral efficiency. Optics Express, 2017, 25, 16310.	3.4	5
170	Spectral signature of nonlinear effects in semiconductor optical amplifiers. Optics Express, 2017, 25, 29526.	3.4	6
171	Harnessing nonlinearities near material absorption resonances for reducing losses in plasmonic modulators. Optical Materials Express, 2017, 7, 2168.	3.0	51
172	Ultrafast Plasmonics. , 2017, , .		0
173	FPGA-based Real-Time Receivers for Nyquist-FDM. , 2017, , .		3
174	Bit- and Power-Loadingâ€”A Comparative Study on Maximizing the Capacity of RSOA Based Colorless DMT Transmitters. Applied Sciences (Switzerland), 2017, 7, 999.	2.5	4
175	Plasmonic interconnects - a dense and fast interconnect solution. , 2017, , .		0
176	Copper atomic-scale transistors. Beilstein Journal of Nanotechnology, 2017, 8, 530-538.	2.8	9
177	Perfect Vertical Grating Coupler with Directionality of 97% on a Standard SOI Platform. , 2017, , .		1
178	Integrated Ferroelectric Plasmonic Optical Modulator. , 2017, , .		12
179	Broadband Plasmonic Modulator Enabling Single Carrier Operation Beyond 100 Gbit/s. , 2017, , .		3
180	Coherent Reception of NFDM Signals on a Single FPGA-Board Enabled by Low Complexity Algorithms. , 2017, , .		0

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181	High Speed Photoconductive Plasmonic Germanium Detector. , 2017, , .		6
182	Cascaded All-Optical Sub-Channel Add/Drop Multiplexing from a 1-Tb/s MB-OFDM or N-WDM Super-Channel with Ultra-Low Guard-Bands. , 2017, , .		1
183	Plasmonic Modulators for Microwave Photonics Applications. , 2017, , .		1
184	Vertical Metallic Grating Couplers Enabling Direct Access to Plasmonic Devices. , 2017, , .		0
185	Exploiting Material Resonances to Reduce Losses in Plasmonic Modulators. , 2017, , .		0
186	168 Gb/s Line Rate Real-Time PAM Receiver Enabled by Timing Recovery with 8/7 Oversampling in a Single FPGA. , 2017, , .		3
187	FPGA-based Real-Time Receiver for Nyquist-FDM at 112 Gbit/s sampled with 32 GSa/s. , 2017, , .		0
188	Mid-IR Generation by Difference Frequency Generation in a Hybrid Plasmonic Waveguide. , 2017, , .		0
189	Spectrum Splitting in Nanowire-Based Solar Cells. Quantum Matter, 2017, 6, 59-65.	0.2	0
190	Plasmonic Organic Hybrid Bragg Grating Modulator. , 2016, , .		0
191	Plasmonic phased array feeder enabling ultra-fast beam steering at millimeter waves. Optics Express, 2016, 24, 25608.	3.4	32
192	Multi-format carrier recovery for coherent real-time reception with processing in polar coordinates. Optics Express, 2016, 24, 25629.	3.4	12
193	Plasmonics - Ultra-Fast Communications at the Microscale. , 2016, , .		0
194	Pre-equalization technique enabling 70 Gbit/s photonic-wireless link at 60 GHz. Optics Express, 2016, 24, 30350.	3.4	5
195	Silicon-organic hybrid (SOH) integration and photonic multi-chip systems: Technologies for high-speed optical interconnects. , 2016, , .		0
196	Wired and wireless high-speed communications enabled by plasmonics. , 2016, , .		1
197	Integrated optical frequency shifter in silicon-organic hybrid (SOH) technology. Optics Express, 2016, 24, 11694.	3.4	35
198	Silicon-plasmonic internal-photoemission detector for 40â€‰â€‰Gbit/s data reception. Optica, 2016, 3, 741.	9.3	84

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199	Flexible Optical Cross-Connects for High Bit Rate Elastic Photonic Transport Networks [Invited]. Journal of Optical Communications and Networking, 2016, 8, A126.	4.8	15
200	Atomic scale plasmonic devices. , 2016, , .		0
201	Lasing in siliconâ€“organic hybrid waveguides. Nature Communications, 2016, 7, 10864.	12.8	44
202	Plasmonic Organic Hybrid Modulatorsâ€”Scaling Highest Speed Photonics to the Microscale. Proceedings of the IEEE, 2016, 104, 2362-2379.	21.3	76
203	Digital Plasmonic Absorption Modulator Exploiting Epsilon-Near-Zero in Transparent Conducting Oxides. IEEE Photonics Journal, 2016, 8, 1-13.	2.0	54
204	Ultra-Fast Millimeter Wave Beam Steering. IEEE Journal of Quantum Electronics, 2016, 52, 1-8.	1.9	29
205	Comparison of steering angle and bandwidth for various phased array antenna concepts. Optics Communications, 2016, 373, 35-43.	2.1	9
206	Software-Defined Transceivers in Dynamic Access Networks. Journal of Lightwave Technology, 2016, 34, 792-797.	4.6	8
207	Coupled FEM-MMP for Computational Electromagnetics. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	8
208	Evidence for faster etching at the mask-substrate interface: atomistic simulation of complex cavities at the micron-/submicron-scale by the continuous cellular automaton. Journal of Micromechanics and Microengineering, 2016, 26, 045013.	2.6	7
209	Atomic Scale Plasmonic Switch. Nano Letters, 2016, 16, 709-714.	9.1	118
210	Silicon-Organic Hybrid (SOH) and Plasmonic-Organic Hybrid (POH) Integration. Journal of Lightwave Technology, 2016, 34, 256-268.	4.6	119
211	108 Gbit/s Plasmonic Machâ€“Zehnder Modulator with > 70-GHz Electrical Bandwidth. Journal of Lightwave Technology, 2016, 34, 393-400.	4.6	71
212	Demystification of the Self-Seeded WDM Access. Journal of Lightwave Technology, 2016, 34, 776-782.	4.6	17
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