

Volker J Sorger

List of Publications by Year in descending order

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185
papers

10,374
citations

70961

41
h-index

32761

100
g-index

191
all docs

191
docs citations

191
times ranked

7580
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmon lasers at deep subwavelength scale. <i>Nature</i> , 2009, 461, 629-632.	13.7	2,277
2	A hybrid plasmonic waveguide for subwavelength confinement and long-range propagation. <i>Nature Photonics</i> , 2008, 2, 496-500.	15.6	1,819
3	Room-temperature sub-diffraction-limited plasmon laser by total internal reflection. <i>Nature Materials</i> , 2011, 10, 110-113.	13.3	546
4	High-Q surface-plasmon-polariton whispering-gallery microcavity. <i>Nature</i> , 2009, 457, 455-458.	13.7	422
5	Ultra-compact silicon nanophotonic modulator with broadband response. <i>Nanophotonics</i> , 2012, 1, 17-22.	2.9	372
6	Toward integrated plasmonic circuits. <i>MRS Bulletin</i> , 2012, 37, 728-738.	1.7	269
7	Plasmon lasers: coherent light source at molecular scales. <i>Laser and Photonics Reviews</i> , 2013, 7, 1-21.	4.4	248
8	Experimental demonstration of low-loss optical waveguiding at deep sub-wavelength scales. <i>Nature Communications</i> , 2011, 2, .	5.8	216
9	Indium-Tin-Oxide for High-performance Electro-optic Modulation. <i>Nanophotonics</i> , 2015, 4, 198-213.	2.9	180
10	Review and perspective on ultrafast wavelength-size electro-optic modulators. <i>Laser and Photonics Reviews</i> , 2015, 9, 172-194.	4.4	173
11	Strain-engineered high-responsivity MoTe ₂ photodetector for silicon photonic integrated circuits. <i>Nature Photonics</i> , 2020, 14, 578-584.	15.6	172
12	All-optical nonlinear activation function for photonic neural networks [Invited]. <i>Optical Materials Express</i> , 2018, 8, 3851.	1.6	162
13	Plasmonic Fabry-Pérot Nanocavity. <i>Nano Letters</i> , 2009, 9, 3489-3493.	4.5	148
14	Photonic tensor cores for machine learning. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	126
15	Massively parallel amplitude-only Fourier neural network. <i>Optica</i> , 2020, 7, 1812.	4.8	117
16	Multiplexed and Electrically Modulated Plasmon Laser Circuit. <i>Nano Letters</i> , 2012, 12, 5396-5402.	4.5	106
17	ITO-based electro-absorption modulator for photonic neural activation function. <i>APL Materials</i> , 2019, 7, .	2.2	105
18	Sub-wavelength GHz-fast broadband ITO Mach-Zehnder modulator on silicon photonics. <i>Optica</i> , 2020, 7, 333.	4.8	103

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19	Generation of helical topological exciton-polaritons. <i>Science</i> , 2020, 370, 600-604.	6.0	97
20	Spotlight on Plasmon Lasers. <i>Science</i> , 2011, 333, 709-710.	6.0	95
21	Strongly Enhanced Molecular Fluorescence inside a Nanoscale Waveguide Gap. <i>Nano Letters</i> , 2011, 11, 4907-4911.	4.5	94
22	0.52 V mm ITO-based Mach-Zehnder modulator in silicon photonics. <i>APL Photonics</i> , 2018, 3, 126104.	3.0	87
23	Neuromorphic photonics with electro-absorption modulators. <i>Optics Express</i> , 2019, 27, 5181.	1.7	86
24	A Chirality-Based Quantum Leap. <i>ACS Nano</i> , 2022, 16, 4989-5035.	7.3	74
25	λ -Size ITO and Graphene-Based Electro-Optic Modulators on SOI. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 40-49.	1.9	67
26	Integrated Nanocavity Plasmon Light Sources for On-Chip Optical Interconnects. <i>ACS Photonics</i> , 2016, 3, 233-242.	3.2	67
27	A compact plasmonic MOS-based 2λ -2 electro-optic switch. <i>Nanophotonics</i> , 2015, 4, 261-268.	2.9	66
28	Compact Graphene Plasmonic Slot Photodetector on Silicon-on-Insulator with High Responsivity. <i>ACS Photonics</i> , 2020, 7, 932-940.	3.2	63
29	Waveguide-based electro-absorption modulator performance: comparative analysis. <i>Optics Express</i> , 2018, 26, 15445.	1.7	60
30	Two-Dimensional Material-Based Mode Confinement Engineering in Electro-Optic Modulators. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 81-88.	1.9	59
31	Fundamental Scaling Laws in Nanophotonics. <i>Scientific Reports</i> , 2016, 6, 37419.	1.6	56
32	Active material, optical mode and cavity impact on nanoscale electro-optic modulation performance. <i>Nanophotonics</i> , 2017, 7, 455-472.	2.9	55
33	Prospects and applications of photonic neural networks. <i>Advances in Physics: X</i> , 2022, 7, .	1.5	54
34	Attojoule-efficient graphene optical modulators. <i>Applied Optics</i> , 2018, 57, D130.	0.9	53
35	Towards integrated metatronics: a holistic approach on precise optical and electrical properties of Indium Tin Oxide. <i>Scientific Reports</i> , 2019, 9, 11279.	1.6	53
36	Optimization of Data Center Battery Storage Investments for Microgrid Cost Savings, Emissions Reduction, and Reliability Enhancement. <i>IEEE Transactions on Industry Applications</i> , 2016, 52, 2053-2060.	3.3	45

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37	Scaling vectors of attojoule per bit modulators. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 014012.	1.0	44
38	Heterogeneously integrated ITO plasmonic Mach-Zehnder interferometric modulator on SOI. <i>Scientific Reports</i> , 2021, 11, 1287.	1.6	44
39	Coupling-enhanced dual ITO layer electro-absorption modulator in silicon photonics. <i>Nanophotonics</i> , 2019, 8, 1559-1566.	2.9	43
40	Optical computing. <i>Nanophotonics</i> , 2017, 6, 503-505.	2.9	42
41	Roadmap on material-function mapping for photonic-electronic hybrid neural networks. <i>APL Materials</i> , 2019, 7, .	2.2	42
42	A deterministic guide for material and mode dependence of on-chip electro-optic modulator performance. <i>Solid-State Electronics</i> , 2017, 136, 92-101.	0.8	41
43	Monolithic III-V on Silicon Plasmonic Nanolaser Structure for Optical Interconnects. <i>Scientific Reports</i> , 2015, 5, 14067.	1.6	40
44	Enhanced photon absorption in spiral nanostructured solar cells using layered 2D materials. <i>Nanotechnology</i> , 2015, 26, 344005.	1.3	40
45	A Sub- λ -Size Modulator Beyond the Efficiency-Loss Limit. <i>IEEE Photonics Journal</i> , 2013, 5, 2202411-2202411.	1.0	39
46	PCNNA: A Photonic Convolutional Neural Network Accelerator. , 2018, , .		37
47	Two-dimensional design and analysis of trench-coupler based Silicon Mach-Zehnder thermo-optic switch. <i>Optics Express</i> , 2016, 24, 15845.	1.7	36
48	Biodegradable and Insoluble Cellulose Photonic Crystals and Metasurfaces. <i>ACS Nano</i> , 2020, 14, 9502-9511.	7.3	36
49	Hexagonal transverse-coupled-cavity VCSEL redefining the high-speed lasers. <i>Nanophotonics</i> , 2020, 9, 4743-4748.	2.9	34
50	Emerging devices and packaging strategies for electronic-photonic AI accelerators: opinion. <i>Optical Materials Express</i> , 2022, 12, 1347.	1.6	34
51	An ITO-graphene heterojunction integrated absorption modulator on Si-photonics for neuromorphic nonlinear activation. <i>APL Photonics</i> , 2021, 6, .	3.0	33
52	2D material printer: a deterministic cross contamination-free transfer method for atomically layered materials. <i>2D Materials</i> , 2019, 6, 015006.	2.0	32
53	Loss and coupling tuning via heterogeneous integration of MoS2 layers in silicon photonics [Invited]. <i>Optical Materials Express</i> , 2019, 9, 751.	1.6	32
54	Testbeds for Transition Metal Dichalcogenide Photonics: Efficacy of Light Emission Enhancement in Monomer vs Dimer Nanoscale Antennae. <i>ACS Photonics</i> , 2017, 4, 1713-1721.	3.2	31

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55	Towards lab-on-chip ultrasensitive ethanol detection using photonic crystal waveguide operating in the mid-infrared. <i>Nanophotonics</i> , 2021, 10, 1675-1682.	2.9	29
56	Primer on silicon neuromorphic photonic processors: architecture and compiler. <i>Nanophotonics</i> , 2020, 9, 4055-4073.	2.9	29
57	Programmable chalcogenide-based all-optical deep neural networks. <i>Nanophotonics</i> , 2022, 11, 4073-4088.	2.9	29
58	Low-loss tunable 1D ITO-slot photonic crystal nanobeam cavity. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 054003.	1.0	28
59	Electronic Bottleneck Suppression in Next-Generation Networks with Integrated Photonic Digital-to-Analog Converters. <i>Advanced Photonics Research</i> , 2021, 2, 2000033.	1.7	28
60	MorphoNoC: Exploring the design space of a configurable hybrid NoC using nanophotonics. <i>Microprocessors and Microsystems</i> , 2017, 50, 113-126.	1.8	27
61	A semi-empirical integrated microring cavity approach for 2D material optical index identification at 1.55 μ m. <i>Nanophotonics</i> , 2019, 8, 435-441.	2.9	27
62	Self-driven highly responsive p-n junction InSe heterostructure near-infrared light detector. <i>Photonics Research</i> , 2022, 10, A97.	3.4	27
63	Observation and Active Control of a Collective Polariton Mode and Polaritonic Band Gap in Few-Layer WS ₂ Strongly Coupled with Plasmonic Lattices. <i>Nano Letters</i> , 2020, 20, 790-798.	4.5	25
64	A Winograd-Based Integrated Photonics Accelerator for Convolutional Neural Networks. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-12.	1.9	25
65	Electrically-driven carbon nanotube-based plasmonic laser on silicon. <i>Optical Materials Express</i> , 2015, 5, 1910.	1.6	24
66	Integrated ultra-high-performance graphene optical modulator. <i>Nanophotonics</i> , 2022, 11, 4011-4016.	2.9	24
67	100-ÅGHz micrometer-compact broadband monolithic ITO Mach-Zehnder interferometer modulator enabling 3500 times higher packing density. <i>Nanophotonics</i> , 2022, 11, 4001-4009.	2.9	24
68	A Lateral MOS-Capacitor-Enabled ITO Mach-Zehnder Modulator for Beam Steering. <i>Journal of Lightwave Technology</i> , 2020, 38, 282-290.	2.7	22
69	The Case for Hybrid Photonic Plasmonic Interconnects (HyPPIs): Low-Latency Energy-and-Area-Efficient On-Chip Interconnects. <i>IEEE Photonics Journal</i> , 2015, 7, 1-14.	1.0	21
70	Artificial Synapse with Mnemonic Functionality using GSST-based Photonic Integrated Memory. , 2020, , .		21
71	Integrated photonic FFT for photonic tensor operations towards efficient and high-speed neural networks. <i>Nanophotonics</i> , 2020, 9, 4097-4108.	2.9	17
72	Electrical-Driven Plasmon Source of Silicon Based on Quantum Tunneling. <i>ACS Photonics</i> , 2018, 5, 4928-4936.	3.2	16

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73	Symmetry perception with spiking neural networks. <i>Scientific Reports</i> , 2021, 11, 5776.	1.6	16
74	Approximate analog computing with metatronic circuits. <i>Communications Physics</i> , 2021, 4, .	2.0	16
75	Hybrid Photonic-Plasmonic Nonblocking Broadband 5 Å– 5 Router for Optical Networks. <i>IEEE Photonics Journal</i> , 2018, 10, 1-12.	1.0	15
76	Enhanced interaction strength for a square plasmon resonator embedded in a photonic crystal nanobeam cavity. <i>Journal of Nanophotonics</i> , 2015, 9, 093790.	0.4	14
77	Atto-Joule, high-speed, low-loss plasmonic modulator based on adiabatic coupled waveguides. <i>Nanophotonics</i> , 2018, 7, 859-864.	2.9	13
78	On-chip nanophotonic broadband wavelength detector with 2D-Electron gas. <i>Nanophotonics</i> , 2022, 11, 289-296.	2.9	13
79	Highly accurate, reliable, and non-contaminating two-dimensional material transfer system. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	13
80	Fast and slow light generated by surface plasmon wave and gold grating coupling effects. <i>Indian Journal of Physics</i> , 2018, 92, 789-798.	0.9	11
81	Wideband Multi-Arm Bowtie Antenna for Millimeter Wave Electro-Optic Sensors and Receivers. <i>Journal of Lightwave Technology</i> , 2018, 36, 3418-3426.	2.7	11
82	OE-CAM: A Hybrid Opto-Electronic Content Addressable Memory. <i>IEEE Photonics Journal</i> , 2020, 12, 1-14.	1.0	11
83	Strain-Induced Spatially Resolved Charge Transport in 2H-MoTe ₂ . <i>ACS Applied Electronic Materials</i> , 2021, 3, 3781-3788.	2.0	11
84	Integrated photonics for NASA applications. , 2019, , .		11
85	Roadmap for gain-bandwidth-product enhanced photodetectors: opinion. <i>Optical Materials Express</i> , 2020, 10, 2192.	1.6	11
86	Electrically tunable metasurface by using InAs in a metal–insulator–metal configuration. <i>Nanophotonics</i> , 2022, 11, 1117-1126.	2.9	11
87	MO detector (MOD): a dual-function optical modulator-detector for on-chip communication. <i>Optics Express</i> , 2018, 26, 8252.	1.7	10
88	Residue number system arithmetic based on integrated nanophotonics. <i>Optics Letters</i> , 2018, 43, 2026.	1.7	10
89	Induced homomorphism: Kirchhoff’s law in photonics. <i>Nanophotonics</i> , 2021, 10, 1711-1721.	2.9	10
90	Quantifying Information via Shannon Entropy in Spatially Structured Optical Beams. <i>Research</i> , 2021, 2021, 9780760.	2.8	10

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91	2D materials in electro-optic modulation: energy efficiency, electrostatics, mode overlap, material transfer and integration. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	9
92	Silicon microring resonator waveguide-based graphene photodetector. Microsystem Technologies, 2019, 25, 319-328.	1.2	9
93	Performance Analysis of Integrated Electro-Optic Phase Modulators Based on Emerging Materials. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-11.	1.9	9
94	Broadband Sub-10 GHz ITO Plasmonic Mach-Zehnder Modulator in Silicon Photonics. , 2020, , .		9
95	Complex Exponential Neural Network for Optical System. , 2021, , .		9
96	Two-beam coupling by a hot electron nonlinearity. Optics Letters, 2021, 46, 428.	1.7	8
97	ROC. ACM Transactions on Parallel Computing, 2020, 7, 1-29.	1.2	8
98	Photonic Tensor Core with Photonic Compute-in-Memory. , 2022, , .		8
99	VCSEL with multi-transverse cavities with bandwidth beyond 100 GHz. Nanophotonics, 2021, 10, 3779-3788.	2.9	7
100	A Spectrally Tunable Dielectric Subwavelength Grating based Broadband Planar Light Concentrator. Scientific Reports, 2019, 9, 11723.	1.6	6
101	Million-channel parallelism Fourier-optic convolutional filter and neural network processor. , 2020, , .		6
102	Charge and field driven integrated optical modulators: comparative analysis: opinion. Optical Materials Express, 2022, 12, 1784.	1.6	6
103	Virtualizing a Post-Moore's Law Analog Mesh Processor: The Case of a Photonic PDE Accelerator. Transactions on Embedded Computing Systems, 2023, 22, 1-26.	2.1	6
104	Towards On-Chip Optical FFTs for Convolutional Neural Networks. , 2017, , .		4
105	HyPPI NoC: Bringing Hybrid Plasmonics to an Opto-Electronic Network-on-Chip. , 2017, , .		4
106	Graphene-based solitons for spatial division multiplexed switching. Optics Letters, 2017, 42, 787.	1.7	4
107	Two-pump optical parametric amplification in the S-band using a tellurite microstructured optical fiber. Indian Journal of Physics, 2019, 93, 101-105.	0.9	4
108	Photonic-Plasmonic Hybrid Interconnects: a Low-latency Energy and Footprint Efficient Link. , 2015, , .		4

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109	Silicon nitride grating based planar spectral splitting concentrator for NIR light harvesting. Optics Express, 2020, 28, 21474.	1.7	4
110	Implications of Active Material and Optical Mode on Nanoscale Electro-Optic Modulation. , 2017, , .		4
111	2D Material based Electro-Absorption Modulator in Si Photonics. , 2020, , .		4
112	Optimization of data center battery storage investments for microgrid cost savings, emissions reduction, and reliability enhancement. , 2015, , .		3
113	Channel resolution enhancement through scalability of nano/micro-scale thickness and width of SU-8 polymer based optical channels using UV lithography. Microsystem Technologies, 2018, 24, 1673-1681.	1.2	3
114	Neural Network Activation Functions with Electro-Optic Absorption Modulators. , 2018, , .		3
115	Integrated Photonics Architectures for Residue Number System Computations. , 2019, , .		3
116	CLEAR: A Holistic Figure-of-Merit for Post- and Predicting Electronic and Photonic-based Compute-system Evolution. Scientific Reports, 2020, 10, 6482.	1.6	3
117	Effect of Strain in WS2 Monolayer Integrated Excitonic Photodetector. , 2021, , .		3
118	ITO Mach-Zehnder Modulator on Si. , 2019, , .		3
119	Sub-voltage Graphene-Plasmon Based Electro-absorption Modulator. , 2017, , .		3
120	Multi-level Nonvolatile Photonic Memories Using Broadband Transparent Phase change materials. , 2021, , .		3
121	Efficient MoTe2 Slot-enhanced Photodetector based on Engineering Gain-Bandwidth-Product Scaling Laws. , 2020, , .		3
122	Quantifying Information via Structural Complexity in Optical Beams Using Shannon Entropy. , 2021, , .		3
123	Strong Photon Absorption in 2-D Material-Based Spiral Photovoltaic Cells. MRS Advances, 2016, 1, 3915-3921.	0.5	2
124	Electroluminescence Enhancement via Grating on a Si-based Plasmonic Metal-Insulator-Semiconductor Tunnel Junction. MRS Advances, 2016, 1, 1709-1713.	0.5	2
125	A Design Methodology for Post-Moore's Law Accelerators: The Case of a Photonic Neuromorphic Processor. , 2020, , .		2
126	Identifying mirror symmetry density with delay in spiking neural networks (Conference Presentation). , 2018, , .		2

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127	Strong ITO index Modulation for Switching Devices. , 2014, , .		2
128	Application-Specific Photonic Integrated Circuit. , 2021, , .		2
129	Fundamental Physical Scaling Laws of Nanophotonics. , 2017, , .		1
130	Sub 1-Volt Graphene-based Plasmonic Electroabsorption Modulator on Silicon. , 2017, , .		1
131	2D TMDCs-Based NIR Photodetector on a Silicon Microring Cavity. , 2019, , .		1
132	Silicon Photonic Enabled Residue Number System Adder and Multiplier. , 2019, , .		1
133	Massively-parallel Amplitude-Only Fourier Optical Convolutional Neural Network. , 2021, , .		1
134	Sub-wavelength Plasmonic Graphene-based Slot Electro-optic Modulator. , 2017, , .		1
135	One-to-Three Silicon Photonic Grid Power Splitter for Optical Mesh Solver. , 2019, , .		1
136	CLEAR: A Holistic Figure-of-Merit for Electronic, Photonic, Plasmonic and Hybrid Photonic-Plasmonic Compute System Comparison. , 2017, , .		1
137	Photonic Neural Network Nonlinear Activation Functions by Electrooptic Absorption Modulators. , 2018, , .		1
138	ITO-based Mach Zehnder Modulator. , 2018, , .		1
139	An ITO-based Mach-Zehnder Modulator with Lateral MOS-Capacitor on SOI Platform. , 2019, , .		1
140	A Guide for Material and Design Choices for Electro-Optic Modulators. , 2019, , .		1
141	Optical Phased Arrays based on ITO Phase Shifter Modulator on Silicon Photonics. , 2019, , .		1
142	MoTe2 Based Electro-optic Modulator on Mach-Zehnder Interferometer. , 2019, , .		1
143	Ultrasensitive Phototransistor Based on Multi-layered MoTe2. , 2019, , .		1
144	Multi-level Nonvolatile Photonic Memories Using Broadband Transparent Phase change materials. , 2020, , .		1

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145	GHz Plasmonic Broadband ITO MZI Modulator in Si Photonics. , 2021, , .		1
146	1fj/bit Coupling-based ITO Monolithic Modulator in Integrated Photonics. , 2021, , .		1
147	Integrated hybrid nanophotonics. , 2011, , .		0
148	A compact plasmonic MOS-based electro-optic switch. , 2013, , .		0
149	A performance comparison of ITO and graphene-based electro-optic modulators. , 2014, , .		0
150	Sub-wavelength Si-based plasmonic light emitting tunnel junction. Proceedings of SPIE, 2015, , .	0.8	0
151	High-performance sub-wavelength Si plasmonic modulators. , 2015, , .		0
152	Photonic Neuromorphic Computing with Electrooptic Nonlinear Activation. , 2018, , .		0
153	110 Attojoule-per-bit Graphene Plasmon Modulator on Silicon. , 2018, , .		0
154	Integrated Photonic Residue Number System Arithmetic. , 2018, , .		0
155	Integrated Nanophotonics Enabled Residue Number System (RNS) Arithmetic. , 2019, , .		0
156	Fourier Optics Coprocessor for Image Processing and Convolutional Neural Network. , 2019, , .		0
157	2D Material Printer: A Novel Deterministic Transfer Method for On-Chip Photonic Integration. , 2019, , .		0
158	Silicon-on-Insulator Integrated ITO-Based Mach-Zehnder Modulator. , 2019, , .		0
159	Photonic TPU & Memory for Machine Intelligence. , 2021, , .		0
160	Emerging Materials Based Electro-Optic Phase Modulators. , 2021, , .		0
161	Physical Scaling Laws of Nanophotonics: Case Photon Conversion. , 2016, , .		0
162	Bit Flow Density (BFD): An Effective Performance FOM for Optical On-chip Interconnects. , 2016, , .		0

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163	Purcell Enhancement in 1-D ITO-slot Photonic Crystal Nanobeam Cavity. , 2018, , .		0
164	Silicon Microring Resonator Integrated MoTe2 Photodetector. , 2019, , .		0
165	Nanophotonics Based Residue Number System. , 2019, , .		0
166	Silicon Resonant Cavity Enhanced MoTe2 Schottky Photodetector at 1.55 μ m. , 2019, , .		0
167	10^6 Channel parallelism Fourier-optic convolutional filter and neural network processor. , 2020, , .		0
168	Photonic Tensor Core and Nonvolatile Memory for Machine Intelligence. , 2021, , .		0
169	Photonic Tensor Core and Nonvolatile Memory for Machine Intelligence. , 2021, , .		0
170	Broadband GHz ITO-based Plasmon MZI Modulator on Silicon Photonics. , 2020, , .		0
171	Programmable Plasmonic Interferometer. , 2020, , .		0
172	Fourier Optic Convolutional Neural Network. , 2021, , .		0
173	Fourier Optical Convolutional Neural Network Accelerator. , 2021, , .		0
174	Massive parallelism Fourier-optic convolutional processor. , 2020, , .		0
175	Strain-Engineered MoTe2 Photodetector in Silicon Photonics at 1550 nm. , 2020, , .		0
176	Photonic Neural Activation Function Using An ITO Electro-Absorption Modulator. , 2020, , .		0
177	Intelligent Computing with Photonic Memories. , 2020, , .		0
178	Strain Induced Enhanced Photodetector based on Few-layered MoTe2. , 2020, , .		0
179	μ m-compact ITO Plasmonic Mach-Zehnder Modulator on Si. , 2020, , .		0
180	Coherent parallel binary-weighted digital-to-analog converter in silicon photonics. , 2020, , .		0

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181	Highly Accurate, Reliable and Non-Contaminating Two-Dimensional Material Transfer System. , 2021, , .		0
182	Optimizing Optical Convolution with Nonlinear Absorption. , 2021, , .		0
183	PIC-based Binary-Weighting Parallel Digital-to-Analog Converter. , 2021, , .		0
184	High Throughput Multi-kernel Fourier Optic Classifier. , 2021, , .		0
185	Photonic Machine Intelligence Hardware: From Photonic Memory and Photonic TPU to Optical CNN. , 2021, , .		0