Tatsuhiko Watanabe

List of Publications by Year
in descending order

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19	943	840776 11	996975 15
papers	citations	h-index	g-index

19	19	19	1027
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low-loss plasmon-assisted electro-optic modulator. Nature, 2018, 556, 483-486.	27.8	312
2	500 GHz plasmonic Mach-Zehnder modulator enabling sub-THz microwave photonics. APL Photonics, 2019, 4, .	5.7	176
3	Plasmonic IQ modulators with attojoule per bit electrical energy consumption. Nature Communications, 2019, 10, 1694.	12.8	112
4	Perpendicular Grating Coupler Based on a Blazed Antiback-Reflection Structure. Journal of Lightwave Technology, 2017, 35, 4663-4669.	4.6	103
5	Laminated polymer waveguide fan-out device for uncoupled multi-core fibers. Optics Express, 2012, 20, 26317.	3.4	51
6	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
7	2-D Grating Couplers for Vertical Fiber Coupling in Two Polarizations. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	38
8	Ultra-large number of transmission channels in space division multiplexing using few-mode multi-core fiber with optimized air-hole-assisted double-cladding structure. Optics Express, 2014, 22, 8309.	3.4	25
9	Coherent few mode demultiplexer realized as a 2D grating coupler array in silicon. Optics Express, 2020, 28, 36009.	3.4	19
10	What is a mode in few mode fibers?: Proposal of MIMO-free mode division multiplexing using true eigenmodes. IEICE Electronics Express, 2016, 13, 20160394-20160394.	0.8	14
11	Reduced Equalization Needs of 100 GHz Bandwidth Plasmonic Modulators. Journal of Lightwave Technology, 2019, 37, 2050-2057.	4.6	14
12	Driver-Less Sub 1 Vpp Operation of a Plasmonic-Organic Hybrid Modulator at 100 GBd NRZ. , 2018, , .		12
13	Stacked polymer waveguide type fanâ€in/fanâ€out device for dense multiâ€core fibre. IET Optoelectronics, 2015, 9, 158-162.	3.3	6
14	300 GHz Plasmonic Mixer. , 2019, , .		6
15	Accurate Analysis of Crosstalk Between LP$_{11}$ Quasi-Degenerate Modes Due to Offset Connection Using True Eigenmodes. IEEE Photonics Journal, 2018, 10, 1-11.	2.0	4
16	Full-set high-speed mode analysis in few-mode fibers by polarization-split segmented coherent detection method: Proposal and simulation of calculation error. IEICE Electronics Express, 2018, 15, 20171132-20171132.	0.8	4
17	Serial branching mode multi/demultiplexer for homogeneous multi-core fibers. IEICE Electronics Express, 2016, 13, 20150961-20150961.	0.8	2
18	Low-Power Data Center Transponders Enabled by Micrometer-scale Plasmonic Modulators. , 2020, , .		1

#	Article	IF	Citations
19	Laminated polymer waveguide fan-out device for uncoupled multi-core fiber. , 2012, , .		0