

Keijiro Suzuki

List of Publications by Year in descending order

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90
papers

1,445
citations

361413

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h-index

345221

36
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90
all docs

90
docs citations

90
times ranked

904
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-compact 32 Å— 32 strictly-non-blocking Si-wire optical switch with fan-out LGA interposer. Optics Express, 2015, 23, 17599.	3.4	161
2	Ultra-compact 8 Å— 8 strictly-non-blocking Si-wire PILOSS switch. Optics Express, 2014, 22, 3887.	3.4	105
3	Low-Insertion-Loss and Power-Efficient 32 Å— 32 Silicon Photonics Switch With Extremely High- $\hat{\nu}$ Silica PLC Connector. Journal of Lightwave Technology, 2019, 37, 116-122.	4.6	102
4	Ultra-high-extinction-ratio 2 Å— 2 silicon optical switch with variable splitter. Optics Express, 2015, 23, 9086.	3.4	92
5	Nonlinear enhancement in photonic crystal slow light waveguides fabricated using CMOS-compatible process. Optics Express, 2011, 19, 22208.	3.4	89
6	Fabrication and characterization of chalcogenide glass photonic crystal waveguides. Optics Express, 2009, 17, 22393.	3.4	67
7	Broadband silicon photonics 8 Å— 8 switch based on double-Mach-Zehnder element switches. Optics Express, 2017, 25, 7538.	3.4	62
8	Hybrid-Integration of SOA on Silicon Photonics Platform Based on Flip-Chip Bonding. Journal of Lightwave Technology, 2019, 37, 307-313.	4.6	54
9	Slow-light-based variable symbol-rate silicon photonics DQPSK receiver. Optics Express, 2012, 20, 4796.	3.4	45
10	Nonlinear light propagation in chalcogenide photonic crystal slow light waveguides. Optics Express, 2010, 18, 26675.	3.4	39
11	Low-Loss, Low-Crosstalk, and Large-Scale Optical Switch Based on Silicon Photonics. Journal of Lightwave Technology, 2020, 38, 233-239.	4.6	37
12	Nonduplicate Polarization-Diversity 32 Å— 32 Silicon Photonics Switch Based on a SiN/Si Double-Layer Platform. Journal of Lightwave Technology, 2020, 38, 226-232.	4.6	36
13	Reconfigurable all-optical on-chip MIMO three-mode demultiplexing based on multi-plane light conversion. Optics Letters, 2018, 43, 1798.	3.3	32
14	Non-duplicate polarization-diversity 8 Å— 8 Si-wire PILOSS switch integrated with polarization splitter-rotators. Optics Express, 2017, 25, 10885.	3.4	31
15	Single-mode Ag-As ₂ Se ₃ strip-loaded waveguides for applications to all-optical devices. Optics Express, 2005, 13, 8634.	3.4	23
16	SOA-Integrated Silicon Photonics Switch and Its Lossless Multistage Transmission of High-Capacity WDM Signals. Journal of Lightwave Technology, 2019, 37, 123-130.	4.6	23
17	Large-scale silicon photonics switch based on 45-nm CMOS technology. Optics Communications, 2020, 466, 125677.	2.1	22
18	SiN/Si double-layer platform for ultralow-crosstalk multiport optical switches. Optics Express, 2019, 27, 21130.	3.4	22

#	ARTICLE	IF	CITATIONS
19	Simple and fully CMOS-compatible low-loss fiber coupling structure for a silicon photonics platform. Optics Letters, 2020, 45, 2095.	3.3	22
20	Compact 2 Å– 2 polarization-diversity Si-wire switch. Optics Express, 2014, 22, 29818.	3.4	21
21	Accelerating Switching Speed of Thermo-optic MZI Silicon-Photonic Switches with “Turbo Pulse” in PWM Control. , 2017, , .		21
22	Ultra-compact silicon photonics switch with high-density thermo-optic heaters. Optics Express, 2019, 27, 10332.	3.4	18
23	Simple and accurate measurement of the absorption coefficient of an absorbing plate by use of the Brewster angle. Optics Letters, 2006, 31, 909.	3.3	17
24	Off-Chip Polarization-Diversity 4 Å– 4 Si-Wire Optical Switch With Digital DGD Compensation. IEEE Photonics Technology Letters, 2016, 28, 457-460.	2.5	17
25	32 Å– 32 Strictly Non-Blocking Si-Wire Optical Switch on Ultra-Small Die of 11 Å– 25 mm ² . , 2015, , .		17
26	Novel polarization diversity without switch duplication of a Si-wire PILOSS optical switch. Optics Express, 2016, 24, 6861.	3.4	15
27	Integrated silicon photonic wavelength-selective switch using wavefront control waveguides. Optics Express, 2018, 26, 13573.	3.4	15
28	Wavelength-Division Demultiplexing Enhanced by Silicon-Photonic Tunable Filters in Ultra-Wideband Optical-Path Networks. Journal of Lightwave Technology, 2020, 38, 1002-1009.	4.6	13
29	Low Insertion Loss and Power Efficient 32 Å– 32 Silicon Photonics Switch with Extremely-High-Î” PLC Connector. , 2018, , .		12
30	2.5-dB loss, 100-nm Operating Bandwidth, and Low Power Consumption Strictly-Non-Blocking 8 Å– 8 Si Switch. , 2017, , .		11
31	A Large-Scale Optical Circuit Switch Using Fast Wavelength-Tunable and Bandwidth-Variable Filters. IEEE Photonics Technology Letters, 2018, 30, 1439-1442.	2.5	11
32	High-Capacity Multi-Stage Operation of Polarization-Diversity Silicon Photonics 8 Å– 8 Optical Switch. Journal of Lightwave Technology, 2019, 37, 131-137.	4.6	11
33	Scalable and Fast Optical Circuit Switch Based on Colorless Coherent Detection: Design Principle and Experimental Demonstration. Journal of Lightwave Technology, 2021, 39, 2263-2274.	4.6	11
34	Inter-layer light transition in hybrid III-V/Si waveguides integrated by Åµ-transfer printing. Optics Express, 2020, 28, 19772.	3.4	11
35	2 Å– 2 16-ch silicon photonics wavelength-selective switch based on waveguide gratings. Optics Express, 2020, 28, 26861.	3.4	10
36	Photonic crystal slow light devices fabricated by CMOS-compatible process. IEICE Electronics Express, 2013, 10, 20132002-20132002.	0.8	9

#	ARTICLE	IF	CITATIONS
37	Silicon Photonics Wavelength Selective Switch With Unlimited Free Spectral Range. Journal of Lightwave Technology, 2020, 38, 3268-3272.	4.6	9
38	Fast Frequency Tuning of Silicon-Photonic Thermo-optic MZI Filters using "Turbo Pulse" Method. , 2018, , .		9
39	32-Port 5.5% ¹ Silica-Based Connecting Device for Low-Loss Coupling between SMFs and Silicon Waveguides. , 2018, , .		9
40	Fast and Accurate Automatic Calibration of a 32 \times 32 Silicon Photonic Strictly-Non-Blocking Switch. , 2017, , .		9
41	Design and verification of a LO bank enabled by fixed-wavelength lasers and fast tunable silicon ring filters for creating large scale optical switches. Optics Express, 2021, 29, 39930.	3.4	8
42	Silicon photonics based 1 \times 2 wavelength selective switch using fold-back arrayed-waveguide gratings. IEICE Electronics Express, 2018, 15, 20180532-20180532.	0.8	6
43	Gain-Integrated 8 \times 8 Silicon Photonics Multicast Switch With On-Chip 2 \times 4-ch. SOAs. Journal of Lightwave Technology, 2020, 38, 2930-2937.	4.6	6
44	Strictly Non-Blocking 8 \times 8 Silicon Photonics Switch Operating in the O-Band. Journal of Lightwave Technology, 2021, 39, 1096-1101.	4.6	6
45	Ultralow-crosstalk and broadband multi-port optical switch using SiN/Si double-layer platform. , 2017, , .		5
46	Silicon Based 1 \times \times Wavelength Selective Switch Using Arrayed Waveguide Gratings With Fold-Back Waveguides. Journal of Lightwave Technology, 2021, 39, 2413-2420.	4.6	5
47	Multiport optical switches integrated on Si photonics platform. IEICE Electronics Express, 2014, 11, 20142011-20142011.	0.8	4
48	Fully-Loaded Operation of 0.29-pJ/bit Wall-plug Efficiency, 81.9-Tb/s Throughput 32 \times 32 Silicon Photonics Switch. , 2021, , .		4
49	1 \times 2 Silicon Wavelength Selective Switch Using Fold Back Arrayed-Waveguide Gratings. , 2017, , .		4
50	Polarization-Diversity 32 x 32 Si Photonics Switch with Non-Duplicate Diversity Circuit in Double-Layer Platform. , 2019, , .		4
51	Path-Independent Insertion-Loss (PILOSS) 8 \times 8 Silicon Photonics Switch with \approx 8 nsec Switching Time. , 2022, , .		4
52	Evaluation of the phase error in Si-wire arrayed-waveguide gratings fabricated by ArF-immersion photolithography. IEICE Electronics Express, 2015, 12, 20150019-20150019.	0.8	3
53	Silicon photonics C-band tunable filter for large-scale optical circuit switches. , 2017, , .		3
54	Recent Advances in Large-scale Optical Switches Based on Silicon Photonics. , 2022, , .		3

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55	4Å—4 Si-wire optical path switch with off-chip polarization diversity. , 2015, , .		2
56	Silicon photonics based switching technology for telecom, datacom and computercom. , 2015, , .		2
57	Low-Crosstalk Bandwidth Expansion in \$32imes 32\$ Silicon Optical Switch with Port-Exchanged Mach-Zehnder Switch. , 2019, , .		2
58	Port-Alternated Switch-and-Select Optical Switches. Journal of Lightwave Technology, 2021, 39, 1102-1107.	4.6	2
59	Large-Scale Optical Switches Based on Silicon Photonics. , 2021, , .		2
60	Fully-Loaded and Cascaded Operation of Polarization-Diversity 8 Å— 8 Silicon Photonics Optical Switch with 11-ch Å— 32/44-Gbaud DP-16QAM WDM Transmission. , 2018, , .		2
61	Wavelength (DE)MUX-and-Switch Based on 5.5%-Î”-Silica PLC/Silicon Photonics Hybrid Platform. Journal of Lightwave Technology, 2022, 40, 1810-1814.	4.6	2
62	Fast Optical Switch Utilizing Coherent Detection Enabled by Cooperative Filtering of Transmission Signal and Local Oscillator (LO) Wavelength Sourced from an LO Bank. , 2021, , .		2
63	5.5%-Î”-PLC/Silicon Photonics Hybrid Wavelength MUX/DEMUX-and-Switch Device. , 2021, , .		2
64	Ultra-Compact 8 Å— 8 Strictly Non-Blocking PILOSS Switch Based on Si-Wire. , 2014, , .		2
65	Reconfigurable 3-Channel All-Optical MIMO Circuit on Silicon Based on Multi-Plane Light Conversion. , 2018, , .		2
66	Next-Generation ROADM Employing Bandwidth-Adaptive Silicon-Photonic Filters for Flexible Drop Operation. , 2018, , .		2
67	Low-Loss, Low-Crosstalk, and Large-Scale Silicon Photonics Switch. , 2019, , .		2
68	Scalable and Fast Optical Circuit Switch Created with Silicon-Photonic Tunable-Filter-based Local Oscillator Bank and Colorless Coherent Detection. , 2020, , .		2
69	Silicon photonic bandwidth-tunable filter based on 16-tap finite impulse response. , 2017, , .		1
70	Fast Optical Circuit Switch Using Monolithically Integrated Silicon-Photonic Space Switch and Wavelength-Tuneable Filter. , 2018, , .		1
71	Ultra-Compact Silicon Photonics Switch with Ultra-Dense Thermo-Optic MZI Matrix and Multi-Layer Wiring. , 2018, , .		1
72	Silicon-Photonics Polarization-Insensitive Broadband Strictly-Non-Blocking 8 Å— 8 Blade Switch. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
73	Multi-port Optical Switch Based on Silicon Photonics. , 2016, , .		1
74	Strictly Non-Blocking Silicon Photonics Switches. , 2016, , .		1
75	Fully Integrated Non-Duplicate Polarization-Diversity 8 Å— 8 Si-Wire PILOSS Switch. , 2017, , .		1
76	CMOS-Compatible Silicon Nitride Waveguide on Silicon Photonics Platform. , 2021, , .		1
77	5.7-dB Fiber-to-Fiber Loss 8 Å— 8 Silicon Photonics Switch with Port-Alternated Switch-and-Select Architecture. , 2020, , .		1
78	O-Band Strictly Non-Blocking 8 Å— 8 Silicon-Photonics Switch. , 2020, , .		1
79	Strictly Non-Blocking Silicon Photonics Switches. IEICE Transactions on Electronics, 2020, E103.C, 627-634.	0.6	1
80	Scalable and Fast Optical Circuit Switch Exploiting Colorless Coherent Detection. , 2022, , .		1
81	Novel PILOSS Port Assignment for Compact Polarization-Diversity Si-Wire Optical Switch. , 2016, , .		0
82	Silicon optical switch monolithically integrated with driver electronics and its power efficient driving. , 2016, , .		0
83	Polarization diversity circuit based on silica waveguides and photonic crystal waveplates for a 4Å—4 silicon optical switch. IEICE Electronics Express, 2017, 14, 20170252-20170252.	0.8	0
84	Switching Devices and Systems Based on Advanced Silicon Photonics. , 2018, , .		0
85	Silicon Photonic Multiport Optical Switch and Its Control Electronics. , 2018, , .		0
86	A 300-mm-wafer silicon photonics technology for advanced information systems. , 2019, , .		0
87	Characteristics of 1Å—2 Silicon Wavelength Selective Switch Using Arrayed - Waveguide Gratings with Fold-Back Waveguides. , 2019, , .		0
88	Nonlinearity Enhancement with Low-Dispersion Slow-Light in Chalcogenide Glass Photonic Crystal Waveguide. , 2010, , .		0
89	Ultra-compact 32 Å— 32 strictly-non-blocking Si-wire PILOSS switch. , 2016, , .		0
90	Polarization-Insensitive Local-Oscillator-Carrier Loopback Modulation for Cost-effective and High-port-count Wavelength Routing Optical Switch. Optics Letters, 0, , .	3.3	0