

# Yuki Atsumi

## List of Publications by Year in descending order

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papers

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Polarization-Insensitive Vertically Curved Si Surface Optical Coupler Bent by Ion Implantation. IEEE Photonics Technology Letters, 2020, 32, 1319-1322.	2.5	6
2	Switching dynamics of silicon waveguide optical modulator driven by photothermally induced metal-insulator transition of vanadium dioxide cladding layer. Optics Express, 2020, 28, 37188.	3.4	12
3	Improvement of fabrication accuracy of vertically curved silicon waveguide optical coupler using hard mask shielded ion implantation bending. Japanese Journal of Applied Physics, 2020, 59, 078003.	1.5	3
4	Design of aspherical-lensed Si surface optical coupler for coupling with standard single-mode optical fibers. Japanese Journal of Applied Physics, 2020, 59, 100905.	1.5	1
5	Low-Loss and Broadband Optical Coupler Based on Lensed-Top Vertically Curved Silicon Waveguide. IEEE Photonics Technology Letters, 2019, 31, 603-606.	2.5	5
6	Silicon waveguide optical modulator driven by metal-insulator transition of vanadium dioxide cladding layer. Optics Express, 2019, 27, 4147.	3.4	31
7	Initial alignment control technique using on-chip groove arrays for liquid crystal hybrid silicon optical phase shifters. Optics Express, 2019, 27, 8756.	3.4	16
8	Orbital Angular Momentum Mux/Demux Module Using Vertically Curved Si Waveguides. , 2019, , .		1
9	Si-Photonics-Based Layer-to-Layer Coupler Toward 3D Optical Interconnection. IEICE Transactions on Electronics, 2018, E101.C, 501-508.	0.6	6
10	Broad-band surface optical coupler based on a SiO <sub>2</sub> -capped vertically curved silicon waveguide. Optics Express, 2018, 26, 10400.	3.4	9
11	Vertically-bent silicon waveguide for high-efficiency optical fiber coupling. , 2018, , .		0
12	Design of compact surface optical coupler based on vertically curved silicon waveguide for high-numerical-aperture single-mode optical fiber. Japanese Journal of Applied Physics, 2017, 56, 090307.	1.5	16
13	Controlled initial orientation of liquid crystals in silicon optical switches with a groove array. , 2017, , .		0
14	Compact and low-loss liquid crystal loaded Mach-Zehnder optical switch based on Si wire waveguide. IEICE Electronics Express, 2017, 14, 20170110-20170110.	0.8	1
15	Vertically Curved Si Waveguide Coupler with Low Loss and Flat Wavelength Window. Journal of Lightwave Technology, 2016, 34, 1567-1571.	4.6	23
16	Interlayer Polarization Beam Splitter Based on Asymmetrical Si Wire Directional Coupler. IEEE Photonics Technology Letters, 2016, 28, 1545-1548.	2.5	7
17	In-plane switching mode-based liquid-crystal hybrid Si wired Mach-Zehnder optical switch. Japanese Journal of Applied Physics, 2016, 55, 118003.	1.5	7
18	CMOS-compatible Vertical Si-waveguide Coupler Fabricated by Ion Implantation. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
19	Hydrogenated amorphous silicon photonic devices on synthetic quartz glass substrate. , 2015, , .		0
20	Design of feasible silicon interlayer polarization beam splitter toward 3D optical integrated circuits. , 2015, , .		0
21	Low-threshold-current operation of membrane distributed-feedback laser with surface grating bonded on Si substrate. Japanese Journal of Applied Physics, 2015, 54, 080301.	1.5	2
22	Investigation of Optical Interconnection by using Photonic Wire Bonding. Journal of Laser Micro Nanoengineering, 2015, 10, 148-153.	0.1	3
23	50 Gbps data transmission through amorphous silicon interlayer grating couplers with metal mirrors. Applied Physics Express, 2014, 7, 032202.	2.4	13
24	Amorphous-Silicon Inter-Layer Grating Couplers With Metal Mirrors Toward 3-D Interconnection. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 317-322.	2.9	12
25	Loss reduction of Si optical waveguides by beam step-size fracturing technique in electron beam lithography. Japanese Journal of Applied Physics, 2014, 53, 06JB04.	1.5	1
26	Low-threshold-current operation of lateral current injection membrane distributed-feedback laser bonded on Si. , 2014, , .		3
27	Analysis of higher-order mode suppressed transmission in low-loss silicon multimode waveguides on silicon-on-insulator substrates. Japanese Journal of Applied Physics, 2014, 53, 078002.	1.5	6
28	Ultraviolet-induced wavelength trimming of BCB-buried athermal Si slot wavelength filters. , 2013, , .		1
29	Design of multi-functional GaInAsP/Si hybrid semiconductor optical amplifier array with AlInAs-oxide current confinement layer. , 2013, , .		0
30	Multi-stacked silicon wire waveguides and couplers toward 3D optical interconnects. , 2013, , .		8
31	Inter-layer grating coupler with metal mirrors for 3D optical interconnects. , 2013, , .		1
32	Low Threshold Current Density Operation of a GaInAsP/Si Hybrid Laser Prepared by Low-Temperature N <sub>2</sub> Plasma Activated Bonding. Japanese Journal of Applied Physics, 2013, 52, 060202.	1.5	17
33	Layer-to-Layer Grating Coupler Based on Hydrogenated Amorphous Silicon for Three-Dimensional Optical Circuits. Japanese Journal of Applied Physics, 2012, 51, 120203.	1.5	8
34	Simultaneous retrieval of fluidic refractive index and surface adsorbed molecular film thickness using silicon wire waveguide biosensors. Optics Express, 2012, 20, 26969.	3.4	12
35	Low-Loss GaInAsP Wire Waveguide on Si Substrate with Benzocyclobutene Adhesive Wafer Bonding for Membrane Photonic Circuits. Japanese Journal of Applied Physics, 2012, 51, 042201.	1.5	19
36	GaInAsP/Si hybrid Fabry-Perot laser using N <sub>2</sub> /plasma activated low temperature bonding. , 2012, , .		0

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37	Athermal Wavelength Filters toward Optical Interconnection to LSIs. IEICE Transactions on Electronics, 2012, E95-C, 229-236.	0.6	10
38	Compact InP-based 1&#x00D7;2 MMI splitter on Si substrate with BCB wafer bonding for membrane photonic circuits. , 2012, , .		2
39	Amorphous Silicon grating-type layer-to-layer couplers for intra-chip connection. , 2012, , .		1
40	Low-Loss GaInAsP Wire Waveguide on Si Substrate with Benzocyclobutene Adhesive Wafer Bonding for Membrane Photonic Circuits. Japanese Journal of Applied Physics, 2012, 51, 042201.	1.5	10
41	Layer-to-Layer Grating Coupler Based on Hydrogenated Amorphous Silicon for Three-Dimensional Optical Circuits. Japanese Journal of Applied Physics, 2012, 51, 120203.	1.5	5
42	GaInAsP/InP lateral-current-injection distributed feedback laser with a-Si surface grating. Optics Express, 2011, 19, 1884.	3.4	31
43	Newly Developed Electromagnetic Tracked Flexible Neuroendoscope -Technical Note-. Neurologia Medico-Chirurgica, 2011, 51, 611-616.	2.2	10
44	Lateral-Current-Injection Distributed Feedback Laser With Surface Grating Structure. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1175-1182.	2.9	21
45	Low-Loss Amorphous Silicon Multilayer Waveguides Vertically Stacked on Silicon-on-Insulator Substrate. Japanese Journal of Applied Physics, 2011, 50, 120208.	1.5	20
46	Wide-gap athermal Si-slot Mach-Zhender Interferometer embedded with Benzocyclobutene. , 2011, , .		0
47	Low-Loss Amorphous Silicon Multilayer Waveguides Vertically Stacked on Silicon-on-Insulator Substrate. Japanese Journal of Applied Physics, 2011, 50, 120208.	1.5	19
48	Lateral current injection type GaInAsP/InP DFB laser with a-Si surface grating. , 2010, , .		1
49	Athermal Wavelength Characteristics of Si Slot Ring Resonator Embedded with Benzocyclobutene for Optoelectronic Integrated Circuits. Japanese Journal of Applied Physics, 2010, 49, 050206.	1.5	17
50	Low-loss Si-slot waveguides and ring resonator embedded with Benzocyclobutene. , 2010, , .		0
51	Athermal wavelength property of Si-slot ring resonator embedded with benzocyclobutene. , 2009, , .		0
52	Properties of high index-contrast wired GaInAsP waveguides with benzocyclobutene on Si substrate. , 2009, , .		1
53	Absent Pulmonary Valve with Intact Ventricular Septum Presenting as Cardiorespiratory Failure at Birth. Pediatric Cardiology, 1997, 18, 136-138.	1.3	15
54	Relief of Airway Compression by Enlarged Pulmonary Artery - Modified Palliative Suspension of the Artery after Plication. Thoracic and Cardiovascular Surgeon, 1995, 43, 44-47.	1.0	1

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55	Influence of bypass grafting to the infarct artery on late potentials in coronary operations. <i>Annals of Thoracic Surgery</i> , 1995, 60, 422-425.	1.3	39
56	A Reconsideration of Surgery for Mitral Stenosis Based on the Extent of Valvular Distortion shown by Two-Dimensional Echocardiography Preoperatively*. <i>Thoracic and Cardiovascular Surgeon</i> , 1993, 41, 167-172.	1.0	0
57	Effect of Stabilized Hemoglobin as a Component of Cardioplegia on Warm Ischemic Heart. <i>Biomaterials, Artificial Cells, and Immobilization Biotechnology: Official Journal of the International Society for Artificial Cells and Immobilization Biotechnology</i> , 1992, 20, 703-707.	0.2	0
58	Internal mammary artery-to-pulmonary artery shunt in infants. <i>Annals of Thoracic Surgery</i> , 1990, 50, 857-858.	1.3	4