Youichi Sakakibara

List of Publications by Year
in descending order

90 papers	1,868 citations	279798 23 h-index	265206 42 g-index
90 all docs	90 docs citations	90 times ranked	1617 citing authors

#	Article	IF	Citations
1	Dispersion-managed, high-power, Tm-doped ultrashort pulse fiber laser using single-wall-carbon-nanotube polyimide film. OSA Continuum, 2021, 4, 137.	1.8	5
2	Polarization-Insensitive Vertically Curved Si Surface Optical Coupler Bent by Ion Implantation. IEEE Photonics Technology Letters, 2020, 32, 1319-1322.	2.5	6
3	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
4	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
5	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
6	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
7	Silicon waveguide optical modulator driven by metalâ€“insulator transition of vanadium dioxide cladding layer. Optics Express, 2019, 27, 4147.	3.4	31
8	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
9	Orbital Angular Momentum Mux/Demux Module Using Vertically Curved Si Waveguides. , 2019, , .		1
10	Broad-band surface optical coupler based on a SiO2-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	Mirror-based polarization-insensitive broadband vertical optical coupling for Si waveguide. Japanese Journal of Applied Physics, 2017, 56, 090302.	1.5	7
14	Controlled initial orientation of liquid crystals in silicon optical switches with a groove array. , 2017, , .		0
15	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
16	Mirror-based surface optical input/output technology with precise and arbitrary coupling angle for silicon photonic application. Japanese Journal of Applied Physics, 2017, 56, 04CH04.	1.5	0
17	Midinfrared optical frequency comb based on difference frequency generation using high repetition rate Er-doped fiber laser with single wall carbon nanotube film. Photonics Research, 2016, 4, 313.	7.0	14
18	Characteristics and improvement of wideband wavelength-tunable narrow-linewidth source by spectral compression in quasi-dispersion-increasing comb-profile fiber. Optics Express, 2016, 24, 23403.	3.4	12

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19	Low-Loss Characteristics of a Multimode Polymer Optical Waveguide at 1.3 um Wavelength on an Electrical Hybrid LSI Package Substrate. , 2016, , .		5
20	Vertically Curved Si Waveguide Coupler with Low Loss and Flat Wavelength Window. Journal of Lightwave Technology, 2016, 34, 1567-1571.	4.6	23
21	Interlayer Polarization Beam Splitter Based on Asymmetrical Si Wire Directional Coupler. IEEE Photonics Technology Letters, 2016, 28, 1545-1548.	2.5	7
22	In-plane switching mode-based liquid-crystal hybrid Si wired Machâ€“Zehnder optical switch. Japanese Journal of Applied Physics, 2016, 55, 118003.	1.5	7
23	25-Gb/s Operation of a Polymer Optical Waveguide on an Electrical Hybrid LSI Package Substrate With Optical Card Edge Connector. Journal of Lightwave Technology, 2016, 34, 3006-3011.	4.6	10
24	CMOS-compatible Vertical Si-waveguide Coupler Fabricated by Ion Implantation. , 2016, , .		1
25	Hydrogenated amorphous silicon photonic devices on synthetic quartz glass substrate. , 2015, , .		0
26	Dynamics of a Dispersion-Managed Passively Mode-Locked Er-Doped Fiber Laser Using Single Wall Carbon Nanotubes. Photonics, 2015, 2, 808-824.	2.0	15
27	Vertical silicon waveguide coupler bent by ion implantation. Optics Express, 2015, 23, 29449.	3.4	33
28	Design of feasible silicon interlayer polarization beam splitter toward 3D optical integrated circuits. , 2015, , .		0
29	Experimental analysis of coherent supercontinuum generation and ultrashort pulse generation using cross-correlation frequency resolved optical gating (X-FROG). Journal of the Optical Society of America B: Optical Physics, 2015, 32, 400.	2.1	8
30	Low-loss and low wavelength-dependence vertical interlayer transition for 3D silicon photonics. Optics Express, 2015, 23, 18602.	3.4	23
31	Spot-size converter with a SiO_2 spacer layer between tapered Si and SiON waveguides for fiber-to-chip coupling. Optics Express, 2015, 23, 21287.	3.4	25
32	Supercontinuum generation for ultrahigh-resolution optical coherence tomography at wavelength of 0.8 Âµm using carbon nanotube fiber laser and similariton amplifier. Applied Physics Express, 2014, 7, 122703.	2.4	9
33	Carrier injection refractive index changes in low-temperature grown silicon waveguide. , 2014, , .		2
34	Silicon knife-edge taper fiber coupler using CMOS backend compatible process. , 2014, , .		1
35	Optical-Time-Division Demultiplexing of 172 Gb/s to 43 Gb/s in a-Si:H Waveguides. IEEE Photonics Technology Letters, 2014, 26, 426-429.	2.5	4
36	Development of a high power supercontinuum source in the 17 Î¼m wavelength region for highly penetrative ultrahigh-resolution optical coherence tomography. Biomedical Optics Express, 2014, 5, 932.	2.9	86

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37	Sub-1 dB/cm submicrometer-scale amorphous silicon waveguide for backend on-chip optical interconnect. Optics Express, 2014, 22, 4779.	3.4	39
38	Real-Time Spectroscopy of Single-Walled Carbon Nanotubes for Negative Time Delays by Using a Few-Cycle Pulse Laser. Journal of Physical Chemistry C, 2014, 118, 3285-3294.	3.1	8
39	Highly transpearent submicrometer-sclae amorphous silicon waveguide for backend optical interconnect. , 2014, , .		0
40	Octave spanning coherent supercontinuum generation by 46 fs pedestal free ultrashort pulse using similariton amplifier and Er-doped fiber laser with carbon nanotube. , 2014, , .		0
41	Generation of high-quality supercontinuum using ultrashort pulse fiber laser system with carbon nanotube. , 2013, , .		0
42	Optical frequency comb using dispersion managed Er-doped ultrashort pulse fiber laser using carbon nanotube polyimide film. , 2013, , .		1
43	Coherent phonon generation in semiconducting single-walled carbon nanotubes using a few-cycle pulse laser. Journal of Luminescence, 2013, 133, 157-161.	3.1	0
44	Electronic relaxation and coherent phonon dynamics in semiconducting single-walled carbon nanotubes with several chiralities. Physical Review B, 2013, 88, .	3.2	17
45	Observation of spontaneous Raman scattering in hydrogenated amorphous silicon wire waveguide at 1.55 Âµm. Electronics Letters, 2013, 49, 610-612.	1.0	0
46	Silicon knife-edge taper waveguide for ultralow-loss spot-size converter fabricated by photolithography. Applied Physics Letters, 2013, 102, .	3.3	44
47	285 mW High Power, Dissipative-Soliton Mode-Locked, Er-doped Fiber Laser using Carbon Nanotube. , 2013, , .		0
48	Power scaling of dispersion-managed Er-doped ultrashort pulse fiber laser with single wall carbon nanotubes. Optics Letters, 2012, 37, 5079.	3.3	25
49	Pattern-effect-free all-optical wavelength conversion using a hydrogenated amorphous silicon waveguide with ultra-fast carrier decay. Optics Letters, 2012, 37, 1382.	3.3	37
50	Basic Study of Coupling on Three-Dimensional Crossing of Si Photonic Wire Waveguide for Optical Interconnection on Inter or Inner Chip. Japanese Journal of Applied Physics, 2012, 51, 04DG12.	1.5	4
51	Nanometer-scale thickness control of amorphous silicon using isotropic wet-etching and low loss wire waveguide fabrication with the etched material. Applied Physics Letters, 2012, 100, 251108.	3.3	23
52	Ultranarrow Silicon Inverse Taper Waveguide Fabricated with Double-Patterning Photolithography for Low-Loss Spot-Size Converter. Applied Physics Express, 2012, 5, 052202.	2.4	22
53	Plasma deposited µc-Si:H wire waveguide. , 2012, , .		0
54	Analysis of vertical coupling between a 2D photonic crystal cavity and a hydrogenated-amorphous-silicon-wire waveguide. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 287-295.	2.0	3

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55	Transmission Characteristics of Hydrogenated Microcrystalline Silicon Wire Waveguide at a Wavelength of 1.55 mum. Applied Physics Express, 2012, 5, 082501.	2.4	4
56	Basic Study of Coupling on Three-Dimensional Crossing of Si Photonic Wire Waveguide for Optical Interconnection on Inter or Inner Chip. Japanese Journal of Applied Physics, 2012, 51, 04DG12.	1.5	2
57	Fine thickness control of amorphous silicon by wet-etching for low loss wire waveguide. , 2011, , .		1
58	Dispersion-managed, high-power, Er-doped ultrashort-pulse fiber laser using carbon-nanotube polyimide film. Optics Express, 2011, 19, 21874.	3.4	56
59	Optical Frequency Comb Using Polarization Maintaining Er-doped Ultrashort Pulse Fiber Laser with Carbon-Nanotube Polyimide Film. , 2011, , .		2
60	Embedding carbon nanotubeâ€“epoxy resin complex into porous alumina for efficiently heat-sinked saturable absorbers. Microelectronic Engineering, 2011, 88, 2304-2307.	2.4	1
61	Embedding of single-wall carbon nanotubes into nanopores of porous alumina by electrophoresis. Microelectronic Engineering, 2010, 87, 1516-1518.	2.4	3
62	Hydrogenated Amorphous Silicon Carbide Optical Waveguide for Telecommunication Wavelength Applications. Applied Physics Express, 2010, 3, 122201.	2.4	20
63	Four-wave mixing in hydrogenated amorphous silicon waveguides at 1.55 µm. , 2010, , .		0
64	Ultrafast nonlinear effects in hydrogenated amorphous silicon wire waveguide. Optics Express, 2010, 18, 5668.	3.4	99
65	Ultralow-repetition-rate, high-energy, polarization-maintaining, Er-doped, ultrashort-pulse fiber laser using single-wall-carbon-nanotube saturable absorber. Optics Express, 2010, 18, 20673.	3.4	40
66	Mode-locking nanoporous alumina membrane embedded with carbon nanotube saturable absorber. Applied Physics Letters, 2009, 94, .	3.3	20
67	Polarization-maintaining, high-energy, wavelength-tunable, Er-doped ultrashort pulse fiber laser using carbon-nanotube polyimide film. Optics Express, 2009, 17, 20233.	3.4	54
68	All-polarization-maintaining Er-doped ultrashort-pulse fiber laser using carbon nanotube saturable absorber. Optics Express, 2008, 16, 9429.	3.4	144
69	Laser-mode Dynamics Measurement and Control of Mode-locked Er-fiber Lasers. , 2007, , .		0
70	Sub-200-fs pulsed erbium-doped fiber laser using a carbon nanotube-polyvinylalcohol mode locker. Applied Physics Letters, 2006, 88, 051118.	3.3	133
71	Anisotropic saturable absorption of single-wall carbon nanotubes aligned in polyvinyl alcohol. Chemical Physics Letters, 2005, 405, 288-293.	2.6	62
72	Concentration quenching of a red emitting electroluminescent dye tetraphenylporphyrin: A time-resolved photoluminescence study. Journal of Materials Science: Materials in Electronics, 2005, 16, 549-552.	2.2	7

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73	Time-resolved photoluminescence study on concentration quenching of a red emitting tetraphenylchlorin dye for organic electroluminescent devices. Synthetic Metals, 2005, 150, 9-13.	3.9	11
74	Carbon Nanotube-Poly(vinylalcohol) Nanocomposite Film Devices: Applications for Femtosecond Fiber Laser Mode Lockers and Optical Amplifier Noise Suppressors. Japanese Journal of Applied Physics, 2005, 44, 1621-1625.	1.5	90
75	Ultrashort pulse-generation by saturable absorber mirrors based on polymer-embedded carbon nanotubes. Optics Express, 2005, 13, 8025.	3.4	192
76	Anisotropic saturable absorption of single wall carbon nanotubes aligned in polyvinyl alcohol. Materials Research Society Symposia Proceedings, 2004, 858, 28.	0.1	1
77	Near-infrared nonlinear optical properties of single-wall carbon nanotubes embedded in polymer film. Thin Solid Films, 2004, 464-465, 368-372.	1.8	46
78	Near-Infrared Saturable Absorption of Single-Wall Carbon Nanotubes Prepared by Laser Ablation Method. Japanese Journal of Applied Physics, 2003, 42, L494-L496.	1.5	77
79	Time-Resolved Photoluminescence Study on Energy Transfer from Alq3 (tris(8-hydroxyquinoline)aluminum) to Red-Emissive Tetraphenylchlorin. Japanese Journal of Applied Physics, 2003, 42, 7379-7380.	1.5	13
80	Enhancement of Red Electroluminescence from Device with Tetraphenylchlorin Doped into Hole-Transporting Material by Improving Electron Transporting Property. Japanese Journal of Applied Physics, 2002, 41, L1010-L1012.	1.5	3
81	Red-Emitting Organic Electroluminescent Devices with Tetraphenylchlorin Doped into a Hole-Transporting Material. Japanese Journal of Applied Physics, 2002, 41, L391-L393.	1.5	9
82	Photoluminescence Properties of Magnesium, Chloroaluminum, Bromoaluminum, and Metal-Free Phthalocyanine Solid Films. Journal of Physical Chemistry B, 2001, 105, 1547-1553.	2.6	58
83	Near-field observation of luminescence of silicon phthalocyanine dye aggregates at low temperature. Journal of Luminescence, 2000, 87-89, 957-959.	3.1	2
84	Red electroluminescence and photoluminescence properties of a reduced porphyrin compound, tetraphenylchlorin. Thin Solid Films, 2000, 363, 29-32.	1.8	17
85	Electroluminescence Properties of Three-Layered Organic Light-Emitting Diodes with a Layer of Tetraphenylchlorin or Tetraphenylporphine. Japanese Journal of Applied Physics, 1999, 38, L1472-L1474.	1.5	6
86	Simulation of Phthalocyanine Dimer Spectra by Extended Dipole Model. Japanese Journal of Applied Physics, 1998, 37, 695-699.	1.5	19
87	Solid Phthalocyanine with High Fluorescence Efficiency. Molecular Crystals and Liquid Crystals, 1998, 314, 71-76.	0.3	5
88	Surface Plasmon-Enhanced Photocurrent in Organic Photoelectric Cells. Japanese Journal of Applied Physics, 1997, 36, 155-158.	1.5	32
89	Preparation of Phthalocyanine-Dispersed Polymer Thin Film by Solvent-Free Process with Vapor Deposition Polymerization. Japanese Journal of Applied Physics, 1993, 32, L332-L334.	1.5	9
90	Thermally-Induced Transformation of Phthalocyanine Microcrystals into Monomers in Polyamic Acid Film Prepared by Vapor Deposition Polymerization. Japanese Journal of Applied Physics, 1993, 32, L1688-L1691.	1.5	9