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	Ultrashort pulse-generation by saturable absorber mirrors based on polymer-embedded carbon nanotubes. Optics Express, 2005, 13, 8025.	3.4	192
2	All-polarization-maintaining Er-doped ultrashort-pulse fiber laser using carbon nanotube saturable absorber. Optics Express, 2008, 16, 9429.	3.4	144
3	Sub-200-fs pulsed erbium-doped fiber laser using a carbon nanotube-polyvinylalcohol mode locker. Applied Physics Letters, 2006, 88, 051118.	3.3	133
4	Ultrafast nonlinear effects in hydrogenated amorphous silicon wire waveguide. Optics Express, 2010, 18, 5668.	3.4	99
5	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
6	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
7	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
8	Anisotropic saturable absorption of single-wall carbon nanotubes aligned in polyvinyl alcohol. Chemical Physics Letters, 2005, 405, 288-293.	2.6	62
9	Photoluminescence Properties of Magnesium, Chloroaluminum, Bromoaluminum, and Metal-Free Phthalocyanine Solid Films. Journal of Physical Chemistry B, 2001, 105, 1547-1553.	2.6	58
10	Dispersion-managed, high-power, Er-doped ultrashort-pulse fiber laser using carbon-nanotube polyimide film. Optics Express, 2011, 19, 21874.	3.4	56
11	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
12	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
13	Silicon knife-edge taper waveguide for ultralow-loss spot-size converter fabricated by photolithography. Applied Physics Letters, 2013, 102, .	3.3	44
14	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
15	Sub-1 dB/cm submicrometer-scale amorphous silicon waveguide for backend on-chip optical interconnect. Optics Express, 2014, 22, 4779.	3.4	39
16	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
17	Vertical silicon waveguide coupler bent by ion implantation. Optics Express, 2015, 23, 29449.	3.4	33
18	Surface Plasmon-Enhanced Photocurrent in Organic Photoelectric Cells. Japanese Journal of Applied Physics, 1997, 36, 155-158.	1.5	32

#	Article	IF	Citations
19	Silicon waveguide optical modulator driven by metalâ€“insulator transition of vanadium dioxide cladding layer. Optics Express, 2019, 27, 4147.	3.4	31
20	Power scaling of dispersion-managed Er-doped ultrashort pulse fiber laser with single wall carbon nanotubes. Optics Letters, 2012, 37, 5079.	3.3	25
21	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
22	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
23	Low-loss and low wavelength-dependence vertical interlayer transition for 3D silicon photonics. Optics Express, 2015, 23, 18602.	3.4	23
24	Vertically Curved Si Waveguide Coupler with Low Loss and Flat Wavelength Window. Journal of Lightwave Technology, 2016, 34, 1567-1571.	4.6	23
25	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
26	Mode-locking nanoporous alumina membrane embedded with carbon nanotube saturable absorber. Applied Physics Letters, 2009, 94, .	3.3	20
27	Hydrogenated Amorphous Silicon Carbide Optical Waveguide for Telecommunication Wavelength Applications. Applied Physics Express, 2010, 3, 122201.	2.4	20
28	Simulation of Phthalocyanine Dimer Spectra by Extended Dipole Model. Japanese Journal of Applied Physics, 1998, 37, 695-699.	1.5	19
29	Red electroluminescence and photoluminescence properties of a reduced porphyrin compound, tetraphenylchlorin. Thin Solid Films, 2000, 363, 29-32.	1.8	17
30	Electronic relaxation and coherent phonon dynamics in semiconducting single-walled carbon nanotubes with several chiralities. Physical Review B, 2013, 88, .	3.2	17
31	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
32	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
33	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
34	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
35	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
36	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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37	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
38	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
39	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
40	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
41	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
42	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
43	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
44	Broad-band surface optical coupler based on a SiO2-capped vertically curved silicon waveguide. Optics Express, 2018, 26, 10400.	3.4	9
45	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
46	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
47	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
48	Interlayer Polarization Beam Splitter Based on Asymmetrical Si Wire Directional Coupler. IEEE Photonics Technology Letters, 2016, 28, 1545-1548.	2.5	7
49	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
50	Mirror-based polarization-insensitive broadband vertical optical coupling for Si waveguide. Japanese Journal of Applied Physics, 2017, 56, 090302.	1.5	7
51	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
52	Polarization-Insensitive Vertically Curved Si Surface Optical Coupler Bent by Ion Implantation. IEEE Photonics Technology Letters, 2020, 32, 1319-1322.	2.5	6
53	Solid Phthalocyanine with High Fluorescence Efficiency. Molecular Crystals and Liquid Crystals, 1998, 314, 71-76.	0.3	5
54	Low-Loss Characteristics of a Multimode Polymer Optical Waveguide at 1.3 um Wavelength on an Electrical Hybrid LSI Package Substrate. , 2016, , .		5

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55	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
56	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
57	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
58	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
59	Transmission Characteristics of Hydrogenated Microcrystalline Silicon Wire Waveguide at a Wavelength of 1.55 mum. Applied Physics Express, 2012, 5, 082501.	2.4	4
60	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
61	Embedding of single-wall carbon nanotubes into nanopores of porous alumina by electrophoresis. Microelectronic Engineering, 2010, 87, 1516-1518.	2.4	3
62	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
63	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
64	Near-field observation of luminescence of silicon phthalocyanine dye aggregates at low temperature. Journal of Luminescence, 2000, 87-89, 957-959.	3.1	2
65	Optical Frequency Comb Using Polarization Maintaining Er-doped Ultrashort Pulse Fiber Laser with Carbon-Nanotube Polyimide Film. , 2011, , .		2
66	Carrier injection refractive index changes in low-temperature grown silicon waveguide. , 2014, , .		2
67	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
68	Anisotropic saturable absorption of single wall carbon nanotubes aligned in polyvinyl alcohol. Materials Research Society Symposia Proceedings, 2004, 858, 28.	0.1	1
69	Fine thickness control of amorphous silicon by wet-etching for low loss wire waveguide. , 2011, , .		1
70	Embedding carbon nanotubeâ€“epoxy resin complex into porous alumina for efficiently heat-sinked saturable absorbers. Microelectronic Engineering, 2011, 88, 2304-2307.	2.4	1
71	Optical frequency comb using dispersion managed Er-doped ultrashort pulse fiber laser using carbon nanotube polyimide film. , 2013, , .		1
72	Silicon knife-edge taper fiber coupler using CMOS backend compatible process. , 2014, , .		1

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73	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
74	CMOS-compatible Vertical Si-waveguide Coupler Fabricated by Ion Implantation. , 2016, , .		1
75	Orbital Angular Momentum Mux/Demux Module Using Vertically Curved Si Waveguides. , 2019, , .		1
76	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
77	Laser-mode Dynamics Measurement and Control of Mode-locked Er-fiber Lasers. , 2007, , .		0
78	Four-wave mixing in hydrogenated amorphous silicon waveguides at 1.55 µm. , 2010, , .		0
79	Plasma deposited µc-Si:H wire waveguide. , 2012, , .		0
80	Generation of high-quality supercontinuum using ultrashort pulse fiber laser system with carbon nanotube. , 2013, , .		0
81	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
82	Observation of spontaneous Raman scattering in hydrogenated amorphous silicon wire waveguide at 1.55 Âμm. Electronics Letters, 2013, 49, 610-612.	1.0	0
83	Highly transpearent submicrometer-sclae amorphous silicon waveguide for backend optical interconnect. , 2014, , .		0
84	Hydrogenated amorphous silicon photonic devices on synthetic quartz glass substrate. , 2015, , .		0
85	Design of feasible silicon interlayer polarization beam splitter toward 3D optical integrated circuits. , 2015, , .		0
86	Controlled initial orientation of liquid crystals in silicon optical switches with a groove array. , 2017, , .		0
87	285 mW High Power, Dissipative-Soliton Mode-Locked, Er-doped Fiber Laser using Carbon Nanotube. , 2013, , .		0
88	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
89	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
90	Vertically-bent silicon waveguide for high-efficiency optical fiber coupling. , 2018, , .		0