

Jong-Bum You

List of Publications by Year in descending order

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39
papers

449
citations

759233

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39
all docs

39
docs citations

39
times ranked

502
citing authors

#	ARTICLE	IF	CITATIONS
1	125 Gbps optical modulation of silicon racetrack resonator based on carrier-depletion in asymmetric p-n diode. Optics Express, 2008, 16, 18340.	3.4	66
2	32 Gbps Data Transmission With 2D Beam-Steering Using a Silicon Optical Phased Array. IEEE Photonics Technology Letters, 2020, 32, 803-806.	2.5	54
3	Silicon-Based Optical Phased Array Using Electro-Optic Phase Shifters. IEEE Photonics Technology Letters, 2019, 31, 1685-1688.	2.5	53
4	Free-carrier electro-refraction modulation based on a silicon slot waveguide with ITO. Optics Express, 2015, 23, 15863.	3.4	47
5	Thermo-optic control of the longitudinal radiation angle in a silicon-based optical phased array. Optics Letters, 2019, 44, 411.	3.3	40
6	High-modulation efficiency silicon Mach-Zehnder optical modulator based on carrier depletion in a PN Diode. Optics Express, 2009, 17, 15520.	3.4	35
7	Multiband perfect absorbers using metal-dielectric films with optically dense medium for angle and polarization insensitive operation. Optics Express, 2014, 22, 8339.	3.4	26
8	Photon-assisted tunneling for sub-bandgap light detection in silicon PN-doped waveguides. Optics Express, 2017, 25, 4284.	3.4	19
9	Ultracompact bottom-up photonic crystal lasers on silicon-on-insulator. Scientific Reports, 2017, 7, 9543.	3.3	18
10	High-Performance Silicon MMI Switch Based on Thermo-Optic Control of Interference Modes. IEEE Photonics Technology Letters, 2018, 30, 1427-1430.	2.5	14
11	On-chip monitoring of far-field patterns using a planar diffractor in a silicon-based optical phased array. Optics Letters, 2020, 45, 6058.	3.3	14
12	Hybrid integration of III-V semiconductor lasers on silicon waveguides using optofluidic microbubble manipulation. Scientific Reports, 2016, 6, 29841.	3.3	13
13	Ultra-compact silicon waveguide-integrated Schottky photodetectors using perfect absorption from tapered metal nanobrick arrays. Optics Express, 2019, 27, 16413.	3.4	11
14	Direct optical wire bonding through open-to-air polymerization for silicon photonic chips. Optics Letters, 2022, 47, 714.	3.3	10
15	Facile photothermal synthesis of localized vanadium oxide capable of extraordinary phase transition. Optical Materials Express, 2017, 7, 2860.	3.0	8
16	Wide-Angle Beam-Steering Using an Optical Phased Array with Non-Uniform-Width Waveguide Radiators. Photonics, 2020, 7, 56.	2.0	8
17	RF Frequency Doubling Using a Silicon p-i-n Diode-Based Mach-Zehnder Modulator. IEEE Photonics Technology Letters, 2008, 20, 1384-1386.	2.5	3
18	Direction-selective emission with small angular divergence from a subwavelength aperture using radiative waveguide modes. Physical Review B, 2013, 87, .	3.2	2

#	ARTICLE	IF	CITATIONS
19	Near-infrared silicon sub-bandgap photo-detectors for on-chip integrated optical links. , 2015, , .		2
20	High-Speed Data Transmission with Beam-Steering using Silicon Optical Phased Array. , 2019, , .		2
21	Nano pillar array laser with a bottom metal plane. , 2012, , .		1
22	Lasing in hybrid metal-Bragg nanocavities. Optics Letters, 2013, 38, 1694.	3.3	1
23	Electrically driven surface plasmon polaritons circuits. , 2015, , .		1
24	Optically pumped subwavelength-scale metallodielectric nanopatch resonators. Scientific Reports, 2016, 6, 31793.	3.3	1
25	Metallodielectric nanopatch cavity with extended metal shields. , 2011, , .		0
26	Room-temperature lasing of a circular Bragg cavity laser with a bottom metal plane. , 2012, , .		0
27	Nanopatch cavity with a subwavelength-scale cuboidal semiconductor core. , 2013, , .		0
28	Wavelength-Selective Optical Filters Based on Metal-Patch Cavities With Slot Waveguide Interfaces. IEEE Photonics Journal, 2014, 6, 1-10.	2.0	0
29	Design of nano-photonic phased-array antennas for wide-angle beam-steering. , 2016, , .		0
30	Design of nano-photonic phased-array antennas for wide-angle beam-steering. , 2016, , .		0
31	High-Speed Wireless Communication using Beam Steering by Optical Phased Array in Silicon. , 2019, , .		0
32	Optomechanically-coupled Fishbone-shaped Double-beam Nanoresonators. , 2011, , .		0
33	Open Nanopatch Cavity with Annular Bragg Reflector and Bottom Metal Plane. , 2012, , .		0
34	Theoretical and experimental characterization of double-disk whispering-gallery microcavities. , 2012, , 252-266.		0
35	Photothermal in-situ synthesis of localized tungsten oxide nanobeam structures. , 2014, , .		0
36	Laser-induced localized photothermal conversion of vanadium into vanadium oxides. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Erratum to "32 Gbps Data Transmission With 2D Beam-Steering Using a Silicon Optical Phased Array", IEEE Photonics Technology Letters, 2020, 32, 843-843.	2.5	0
38	High-speed data transmission system using silicon-based optical phased array. , 2020, , .		0
39	8K Video Data Transmission through Optical Phased Array Packaged by Direct Optical Wire Bonding. , 2022, , .		0