Kyoungsik Yu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9527811/publications.pdf

Version: 2024-02-01

67	1,303	430874	345221
papers	citations	18 h-index	36 g-index

70	70	70	2179
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highâ€Bandwidth InGaAs Photodetectors Heterogeneously Integrated on Silicon Waveguides Using Optofluidic Assembly. Laser and Photonics Reviews, 2022, 16, .	8.7	0
2	Chemically-Etched Optical Fiber Tapers for Adiabatic Fundamental Mode Evolution Over O-and C-Bands. Journal of Lightwave Technology, 2022, 40, 4832-4840.	4.6	3
3	Cascaded optical resonator-based programmable photonic integrated circuits. Optics Express, 2021, 29, 4645.	3.4	4
4	Improving the performance of photovoltaic cells based on nanocomposites with contorted polycyclic aromatic hydrocarbon additive in bulk heterojunction. Journal of Materials Chemistry C, 2021, 9, 13081-13089.	5.5	2
5	32 Ã— 32 silicon photonic MEMS switch with gap-adjustable directional couplers fabricated in commercial CMOS foundry. Journal of Optical Microsystems, 2021, 1, .	1.5	9
6	Organic Sub-Bandgap Schottky Barrier Photodetectors with Near-Infrared Coherent Perfect Absorption. ACS Photonics, 2021, 8, 2618-2625.	6.6	10
7	A review of optics-based methods for thickness and surface characterization of two-dimensional materials. Journal Physics D: Applied Physics, 2021, 54, 393001.	2.8	9
8	Gapâ€Mode Plasmonâ€Induced Photovoltaic Effect in a Vertical Multilayer Graphene Homojunction. Advanced Optical Materials, 2020, 8, 1901519.	7.3	6
9	Photoconductivity Switching in MoTe₂/Graphene Heterostructure by Trap-Assisted Photogating. ACS Applied Materials & Interfaces, 2020, 12, 38563-38569.	8.0	30
10	Finesse of Stable Extrinsic Fiber Fabry-PÃ©rot Cavities With Spherical Surfaces. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	0
11	Desolvationâ€Triggered Versatile Transferâ€Printing of Pure BN Films with Thermalâ€“Optical Dual Functionality. Advanced Materials, 2020, 32, 2002099.	21.0	5
12	Tungsten oxide nonvolatile memory devices using photothermal in-situ oxidation method. Materials Letters, 2020, 272, 127805.	2.6	0
13	Rapid and broad-range thickness estimation method of hexagonal boron nitride using Raman spectroscopy and optical microscope. Applied Physics Letters, 2020, 116, .	3.3	9
14	Broadband single-channel coherent perfect absorption with a perfect magnetic mirror. Optics Express, 2020, 28, 35108.	3.4	6
15	Relaxed Adiabatic Evolution of Fundamental HE₁₁ Mode on Etched Optical Fiber Tapers. , 2020, , .		1
16	Ultrahigh omnidirectional, broadband, and polarization-independent optical absorption over the visible wavelengths by effective dispersion engineering. Scientific Reports, 2019, 9, 9866.	3.3	6
17	Siâ€“MoS₂ Vertical Heterojunction for a Photodetector with High Responsivity and Low Noise Equivalent Power. ACS Applied Materials & Interfaces, 2019, 11, 7626-7634.	8.0	58
18	Effective charge separation of inverted polymer solar cells using versatile MoS₂ nanosheets as an electron transport layer. Journal of Materials Chemistry A, 2019, 7, 15356-15363.	10.3	19

#	Article	IF	Citations
19	Bioinspired Polydopamineâ€Based Resistiveâ€Switching Memory on Cotton Fabric for Wearable Neuromorphic Device Applications. Advanced Materials Technologies, 2019, 4, 1900151.	5.8	33
20	Observation of Wavelength-Dependent Quantum Plasmon Tunneling with Varying the Thickness of Graphene Spacer. Scientific Reports, 2019, 9, 1199.	3.3	13
21	Highly omnidirectional planar metamaterial perfect absorbers operating from the visible to near-infrared region. , 2019, , .		0
22	High Performance Polarization Beam Splitter Based on Cascaded Directional Couplers Assisted by Effectively Anisotropic Structures. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	5
23	Thermo-optic control of the longitudinal radiation angle in a silicon-based optical phased array. Optics Letters, 2019, 44, 411.	3.3	40
24	Optical analysis of the refractive index and birefringence of hexagonal boron nitride from the visible to near-infrared. Optics Letters, 2019, 44, 3797.	3.3	59
25	Large-Scale Polarization-Insensitive Silicon Photonic MEMS Switches. Journal of Lightwave Technology, 2018, 36, 1824-1830.	4.6	44
26	High-efficiency broadband light coupling between optical fibers and photonic integrated circuits. Nanophotonics, 2018, 7, 1845-1864.	6.0	108
27	Development of a smartphone-based rapid dual fluorescent diagnostic system for the simultaneous detection of influenza A and H5 subtype in avian influenza A-infected patients. Theranostics, 2018, 8, 6132-6148.	10.0	29
28	High-Performance Silicon MMI Switch Based on Thermo-Optic Control of Interference Modes. IEEE Photonics Technology Letters, 2018, 30, 1427-1430.	2.5	14
29	Coupling performance enhancement using SOI grating coupler design. Optics Communications, 2018, 427, 452-456.	2.1	9
30	Asymmetric Superimposed Optical Vortex Beam Emission at Exceptional Point. IEEE Photonics Technology Letters, 2017, 29, 818-821.	2.5	1
31	Conductive Co3O4/graphene (core/shell) quantum dots as electrode materials for electrochemical pseudocapacitor applications. Composites Part B: Engineering, 2017, 130, 230-235.	12.0	10
32	Flashâ€Induced Selfâ€Limited Plasmonic Welding of Silver Nanowire Network for Transparent Flexible Energy Harvester. Advanced Materials, 2017, 29, 1603473.	21.0	207
33	Tapered Optical Fiber Couplers Fabricated by Droplet-Based Chemical Etching. IEEE Photonics Journal, 2017, 9, 1-8.	2.0	11
34	Metasurface-based ultra-thin circular polarization analyzer integrated with semiconductor photodetectors. , 2017, , .		1
35	Photon-assisted tunneling for sub-bandgap light detection in silicon PN-doped waveguides. Optics Express, 2017, 25, 4284.	3.4	19
36	Asymmetric superimposed optical vortex beam emission at exceptional point. , 2017, , .		0

#	Article	IF	Citations
37	Smartphone-Based Fluorescent Diagnostic System for Highly Pathogenic H5N1 Viruses. Theranostics, 2016, 6, 231-242.	10.0	91
38	Hybrid integration of III-V semiconductor lasers on silicon waveguides using optofluidic microbubble manipulation. Scientific Reports, 2016, 6, 29841.	3.3	13
39	Design of nano-photonic phased-array antennas for wide-angle beam-steering. , 2016, , .		0
40	A facile chemical synthesis of ZnO@multilayer graphene nanoparticles with fast charge separation and enhanced performance for application in solar energy conversion. Nano Energy, 2016, 25, 9-17.	16.0	35
41	Randomly Distributed Fabry-PÃ©rot-type Metal Nanowire Resonators and Their Lasing Action. Scientific Reports, 2016, 6, 24898.	3.3	2
42	Optically pumped subwavelength-scale metallodielectric nanopatch resonators. Scientific Reports, 2016, 6, 31793.	3.3	1
43	Design of nano-photonic phased-array antennas for wide-angle beam-steering. , 2016, , .		0
44	Wavelength division demultiplexer and integrated III-V semiconductor lasers on a silicon photonics platform with microbubble manipulation. , 2015, , .		0
45	Electrically driven surface plasmon polaritons circuits. , 2015, , .		1
46	Near-infrared silicon sub-bandgap photo-detectors for on-chip integrated optical links. , 2015, , .		2
47	Localized Laserâ€Based Photohydrothermal Synthesis of Functionalized Metalâ€Oxides. Advanced Functional Materials, 2015, 25, 2222-2229.	14.9	11
48	Rapid and Quantitative Detection of Zoonotic Influenza A Virus Infection Utilizing Coumarin-derived dendrimer-based Fluorescent Immunochromatographic Strip Test (FICT). Theranostics, 2014, 4, 1239-1249.	10.0	26
49	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
50	Wavelength-Selective Optical Filters Based on Metal-Patch Cavities With Slot Waveguide Interfaces. IEEE Photonics Journal, 2014, 6, 1-10.	2.0	0
51	Direction-selective emission with small angular divergence from a subwavelength aperture using radiative waveguide modes. Physical Review B, 2013, 87, .	3.2	2
52	Etchless optical cavity using metal nanowires on dielectric-metal slab waveguide. , 2013, , .		0
53	Nanopatch cavity with a subwavelength-scale cuboidal semiconductor core. , 2013, , .		0
54	Non-imaging fluorescence detection system with hemispherical dome reflectors. , 2012, , .		2

#	Article	IF	Citations
55	Electrothermally Actuated Lens Scanner and Latching Brake for Free-Space Board-to-Board Optical Interconnects. Journal of Microelectromechanical Systems, 2012, 21, 1107-1116.	2.5	10
56	Nano pillar array laser with a bottom metal plane. , 2012, , .		1
57	Hydrothermal fabrication of patterned ZnO nanorod clusters using laser direct writing. , 2012, , .		0
58	Room-temperature lasing of a circular Bragg cavity laser with a bottom metal plane. , 2012, , .		0
59	Metallodielectric nanopatch cavity with extended metal shields. , 2011, , .		0
60	Platelet Sensing of Microenviornmental Geometry Guides Adhesion and Spreading: A Quantitative Study At the Single-Cell Level. Blood, 2011, 118, 2192-2192.	1.4	0
61	Subwavelength metal-optic semiconductor nanopatch lasers. Optics Express, 2010, 18, 8790.	3.4	224
62	Heterogeneous integration of InGaAsP microdisk laser onÂaÂsilicon platform using optofluidic assembly. Applied Physics A: Materials Science and Processing, 2009, 95, 967-972.	2.3	26
63	Robust free space board-to-board optical interconnect withÂclosed loop MEMS tracking. Applied Physics A: Materials Science and Processing, 2009, 95, 973-982.	2.3	20
64	Vertical Mirror Fabrication Combining KOH Etch and DRIE of (110) Silicon. Journal of Microelectromechanical Systems, 2009, 18, 217-227.	2.5	27
65	Subwavelength plasmonic resonator. , 2008, , .		0
66	Optofluidic assembly of microdisk lasers on a silicon chip. , 2008, , .		0
67	Hybrid microdisk laser on a silicon platform using lateral-field optoelectronic tweezers assembly. , 2008, , .		1