

Kyoungsik Yu

List of Publications by Year in descending order

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

Version: 2024-02-01

67
papers

1,303
citations

430874

18
h-index

345221

36
g-index

70
all docs

70
docs citations

70
times ranked

2179
citing authors

#	ARTICLE	IF	CITATIONS
1	Subwavelength metal-optic semiconductor nanopatch lasers. <i>Optics Express</i> , 2010, 18, 8790.	3.4	224
2	Flash-Induced Self-Limited Plasmonic Welding of Silver Nanowire Network for Transparent Flexible Energy Harvester. <i>Advanced Materials</i> , 2017, 29, 1603473.	21.0	207
3	High-efficiency broadband light coupling between optical fibers and photonic integrated circuits. <i>Nanophotonics</i> , 2018, 7, 1845-1864.	6.0	108
4	Smartphone-Based Fluorescent Diagnostic System for Highly Pathogenic H5N1 Viruses. <i>Theranostics</i> , 2016, 6, 231-242.	10.0	91
5	Optical analysis of the refractive index and birefringence of hexagonal boron nitride from the visible to near-infrared. <i>Optics Letters</i> , 2019, 44, 3797.	3.3	59
6	Si-MoS ₂ Vertical Heterojunction for a Photodetector with High Responsivity and Low Noise Equivalent Power. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7626-7634.	8.0	58
7	Large-Scale Polarization-Insensitive Silicon Photonic MEMS Switches. <i>Journal of Lightwave Technology</i> , 2018, 36, 1824-1830.	4.6	44
8	Thermo-optic control of the longitudinal radiation angle in a silicon-based optical phased array. <i>Optics Letters</i> , 2019, 44, 411.	3.3	40
9	A facile chemical synthesis of ZnO@multilayer graphene nanoparticles with fast charge separation and enhanced performance for application in solar energy conversion. <i>Nano Energy</i> , 2016, 25, 9-17.	16.0	35
10	Bioinspired Polydopamine-Based Resistive Switching Memory on Cotton Fabric for Wearable Neuromorphic Device Applications. <i>Advanced Materials Technologies</i> , 2019, 4, 1900151.	5.8	33
11	Photoconductivity Switching in MoTe ₂ /Graphene Heterostructure by Trap-Assisted Photogating. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38563-38569.	8.0	30
12	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. <i>Theranostics</i> , 2018, 8, 6132-6148.	10.0	29
13	Vertical Mirror Fabrication Combining KOH Etch and DRIE of (110) Silicon. <i>Journal of Microelectromechanical Systems</i> , 2009, 18, 217-227.	2.5	27
14	Heterogeneous integration of InGaAsP microdisk laser on silicon platform using optofluidic assembly. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 967-972.	2.3	26
15	Rapid and Quantitative Detection of Zoonotic Influenza A Virus Infection Utilizing Coumarin-derived dendrimer-based Fluorescent Immunochromatographic Strip Test (FICT). <i>Theranostics</i> , 2014, 4, 1239-1249.	10.0	26
16	Multiband perfect absorbers using metal-dielectric films with optically dense medium for angle and polarization insensitive operation. <i>Optics Express</i> , 2014, 22, 8339.	3.4	26
17	Robust free space board-to-board optical interconnect with closed loop MEMS tracking. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 973-982.	2.3	20
18	Photon-assisted tunneling for sub-bandgap light detection in silicon PN-doped waveguides. <i>Optics Express</i> , 2017, 25, 4284.	3.4	19

#	ARTICLE	IF	CITATIONS
19	Effective charge separation of inverted polymer solar cells using versatile MoS ₂ nanosheets as an electron transport layer. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15356-15363.	10.3	19
20	High-Performance Silicon MMI Switch Based on Thermo-Optic Control of Interference Modes. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1427-1430.	2.5	14
21	Hybrid integration of III-V semiconductor lasers on silicon waveguides using optofluidic microbubble manipulation. <i>Scientific Reports</i> , 2016, 6, 29841.	3.3	13
22	Observation of Wavelength-Dependent Quantum Plasmon Tunneling with Varying the Thickness of Graphene Spacer. <i>Scientific Reports</i> , 2019, 9, 1199.	3.3	13
23	Localized Laser-Based Photohydrothermal Synthesis of Functionalized Metal Oxides. <i>Advanced Functional Materials</i> , 2015, 25, 2222-2229.	14.9	11
24	Tapered Optical Fiber Couplers Fabricated by Droplet-Based Chemical Etching. <i>IEEE Photonics Journal</i> , 2017, 9, 1-8.	2.0	11
25	Electrothermally Actuated Lens Scanner and Latching Brake for Free-Space Board-to-Board Optical Interconnects. <i>Journal of Microelectromechanical Systems</i> , 2012, 21, 1107-1116.	2.5	10
26	Conductive Co ₃ O ₄ /graphene (core/shell) quantum dots as electrode materials for electrochemical pseudocapacitor applications. <i>Composites Part B: Engineering</i> , 2017, 130, 230-235.	12.0	10
27	Organic Sub-Bandgap Schottky Barrier Photodetectors with Near-Infrared Coherent Perfect Absorption. <i>ACS Photonics</i> , 2021, 8, 2618-2625.	6.6	10
28	Coupling performance enhancement using SOI grating coupler design. <i>Optics Communications</i> , 2018, 427, 452-456.	2.1	9
29	Rapid and broad-range thickness estimation method of hexagonal boron nitride using Raman spectroscopy and optical microscope. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	9
30	32 Å–32 silicon photonic MEMS switch with gap-adjustable directional couplers fabricated in commercial CMOS foundry. <i>Journal of Optical Microsystems</i> , 2021, 1, .	1.5	9
31	A review of optics-based methods for thickness and surface characterization of two-dimensional materials. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 393001.	2.8	9
32	Ultra-high omnidirectional, broadband, and polarization-independent optical absorption over the visible wavelengths by effective dispersion engineering. <i>Scientific Reports</i> , 2019, 9, 9866.	3.3	6
33	Gap-Mode Plasmon-Induced Photovoltaic Effect in a Vertical Multilayer Graphene Homo Junction. <i>Advanced Optical Materials</i> , 2020, 8, 1901519.	7.3	6
34	Broadband single-channel coherent perfect absorption with a perfect magnetic mirror. <i>Optics Express</i> , 2020, 28, 35108.	3.4	6
35	High Performance Polarization Beam Splitter Based on Cascaded Directional Couplers Assisted by Effectively Anisotropic Structures. <i>IEEE Photonics Journal</i> , 2019, 11, 1-9.	2.0	5
36	Desolvation-Triggered Versatile Transfer-Printing of Pure BN Films with Thermal-Optical Dual Functionality. <i>Advanced Materials</i> , 2020, 32, 2002099.	21.0	5

#	ARTICLE	IF	CITATIONS
37	Cascaded optical resonator-based programmable photonic integrated circuits. Optics Express, 2021, 29, 4645.	3.4	4
38	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
39	Non-imaging fluorescence detection system with hemispherical dome reflectors. , 2012, , .		2
40	Direction-selective emission with small angular divergence from a subwavelength aperture using radiative waveguide modes. Physical Review B, 2013, 87, .	3.2	2
41	Near-infrared silicon sub-bandgap photo-detectors for on-chip integrated optical links. , 2015, , .		2
42	Randomly Distributed Fabry-Pérot-type Metal Nanowire Resonators and Their Lasing Action. Scientific Reports, 2016, 6, 24898.	3.3	2
43	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
44	Nano pillar array laser with a bottom metal plane. , 2012, , .		1
45	Electrically driven surface plasmon polaritons circuits. , 2015, , .		1
46	Optically pumped subwavelength-scale metallodielectric nanopatch resonators. Scientific Reports, 2016, 6, 31793.	3.3	1
47	Asymmetric Superimposed Optical Vortex Beam Emission at Exceptional Point. IEEE Photonics Technology Letters, 2017, 29, 818-821.	2.5	1
48	Metasurface-based ultra-thin circular polarization analyzer integrated with semiconductor photodetectors. , 2017, , .		1
49	Hybrid microdisk laser on a silicon platform using lateral-field optoelectronic tweezers assembly. , 2008, , .		1
50	Relaxed Adiabatic Evolution of Fundamental HE_{11} Mode on Etched Optical Fiber Tapers. , 2020, , .		1
51	Subwavelength plasmonic resonator. , 2008, , .		0
52	Optofluidic assembly of microdisk lasers on a silicon chip. , 2008, , .		0
53	Metallodielectric nanopatch cavity with extended metal shields. , 2011, , .		0
54	Hydrothermal fabrication of patterned ZnO nanorod clusters using laser direct writing. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
55	Room-temperature lasing of a circular Bragg cavity laser with a bottom metal plane. , 2012, , .		0
56	Etchless optical cavity using metal nanowires on dielectric-metal slab waveguide. , 2013, , .		0
57	Nanopatch cavity with a subwavelength-scale cuboidal semiconductor core. , 2013, , .		0
58	Wavelength-Selective Optical Filters Based on Metal-Patch Cavities With Slot Waveguide Interfaces. IEEE Photonics Journal, 2014, 6, 1-10.	2.0	0
59	Wavelength division demultiplexer and integrated III-V semiconductor lasers on a silicon photonics platform with microbubble manipulation. , 2015, , .		0
60	Design of nano-photonic phased-array antennas for wide-angle beam-steering. , 2016, , .		0
61	Design of nano-photonic phased-array antennas for wide-angle beam-steering. , 2016, , .		0
62	Asymmetric superimposed optical vortex beam emission at exceptional point. , 2017, , .		0
63	Highly omnidirectional planar metamaterial perfect absorbers operating from the visible to near-infrared region. , 2019, , .		0
64	Finesse of Stable Extrinsic Fiber Fabry-Pérot Cavities With Spherical Surfaces. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	0
65	Tungsten oxide nonvolatile memory devices using photothermal in-situ oxidation method. Materials Letters, 2020, 272, 127805.	2.6	0
66	Platelet Sensing of Microenvironmental Geometry Guides Adhesion and Spreading: A Quantitative Study At the Single-Cell Level. Blood, 2011, 118, 2192-2192.	1.4	0
67	High-Bandwidth InGaAs Photodetectors Heterogeneously Integrated on Silicon Waveguides Using Optofluidic Assembly. Laser and Photonics Reviews, 2022, 16, .	8.7	0