

Sangin Kim

List of Publications by Year in descending order

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49
papers

559
citations

687363

13
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713466

21
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52
all docs

52
docs citations

52
times ranked

593
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable guided-mode resonances in coupled gratings. <i>Optics Express</i> , 2009, 17, 23544.	3.4	52
2	Higher order optical resonant filters based on coupled defect resonators in photonic crystals. <i>Journal of Lightwave Technology</i> , 2005, 23, 1923-1928.	4.6	46
3	Optical bistable devices based on guided-mode resonance in slab waveguide gratings. <i>Optics Express</i> , 2009, 17, 23459.	3.4	42
4	Angle- and position-insensitive electrically tunable absorption in graphene by epsilon-near-zero effect. <i>Optics Express</i> , 2015, 23, 33350.	3.4	26
5	Optical waveguide and cavity effects on whispering-gallery mode resonances in a ZnO nanonail. <i>Applied Physics Letters</i> , 2009, 95, 221105.	3.3	25
6	Optical bistability based on hyperbolic metamaterials. <i>Optics Express</i> , 2018, 26, 11620.	3.4	25
7	Practical Plug-and-Play Measurement-Device-Independent Quantum Key Distribution With Polarization Division Multiplexing. <i>IEEE Access</i> , 2018, 6, 58587-58593.	4.2	24
8	Optical reflection modulation using surface plasmon resonance in a graphene-embedded hybrid plasmonic waveguide at an optical communication wavelength. <i>Optics Letters</i> , 2015, 40, 871.	3.3	22
9	A proposal of a perfect graphene absorber with enhanced design and fabrication tolerance. <i>Scientific Reports</i> , 2017, 7, 4760.	3.3	20
10	Broadband absorption enhancement of monolayer graphene by prism coupling in the visible range. <i>Carbon</i> , 2019, 154, 42-47.	10.3	20
11	High fabrication-tolerant narrowband perfect graphene absorber based on guided-mode resonance in distributed Bragg reflector. <i>Scientific Reports</i> , 2019, 9, 4294.	3.3	19
12	Graphene perfect absorber design based on an approach of mimicking a one-port system in an asymmetric single resonator. <i>Optics Express</i> , 2021, 29, 29631.	3.4	18
13	All-Optical Switches Based on Multiple Cascaded Resonators With Reduced Switching Intensity-Response Time Products. <i>Journal of Lightwave Technology</i> , 2012, 30, 3525-3531.	4.6	14
14	A graphene-assisted all-pass filter for a tunable terahertz transmissive modulator with near-perfect absorption. <i>Scientific Reports</i> , 2019, 9, 12558.	3.3	14
15	Ultra-compact integrated terahertz modulator based on a graphene metasurface. <i>Optics Letters</i> , 2021, 46, 605.	3.3	14
16	Optical Absorption Characteristic in Thin a-Si Film Embedded Between an Ultrathin Metal Grating and a Metal Reflector. <i>IEEE Photonics Journal</i> , 2013, 5, 4800610-4800610.	2.0	13
17	Plasmon-Induced Transparency in Coupled Graphene Gratings. <i>Plasmonics</i> , 2015, 10, 1557-1564.	3.4	13
18	Graphene perfect absorber of ultra-wide bandwidth based on wavelength-insensitive phase matching in prism coupling. <i>Scientific Reports</i> , 2019, 9, 11967.	3.3	12

#	ARTICLE	IF	CITATIONS
19	Tailoring Fano Resonance for Flat-Top Broadband Reflectors Based on Single Guided-Mode Resonance. <i>Journal of Lightwave Technology</i> , 2019, 37, 4244-4250.	4.6	11
20	THz Time-Domain Spectroscopic Imaging of Human Articular Cartilage. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2012, 33, 593-598.	2.2	10
21	Multi-Functional Transparent Luminescent Configuration for Advanced Photovoltaics. <i>Advanced Energy Materials</i> , 2016, 6, 1502404.	19.5	10
22	Proposal for ideal 3-dB splitters/combiners in photonic crystals. <i>Optics Letters</i> , 2005, 30, 257.	3.3	9
23	Tunable Wide-Angle Tunneling in Graphene-Assisted Frustrated Total Internal Reflection. <i>Scientific Reports</i> , 2016, 6, 19975.	3.3	9
24	Graphene perfect absorber with loss adaptive Q-factor control function enabled by quasi-bound states in the continuum. <i>Scientific Reports</i> , 2021, 11, 22819.	3.3	9
25	2 ^N -N twin-field quantum key distribution network configuration based on polarization, wavelength, and time division multiplexing. <i>Npj Quantum Information</i> , 2022, 8, .	6.7	9
26	Design of a wideband continuous-wave photomixer antenna for terahertz wireless communication systems. <i>Journal of Electromagnetic Waves and Applications</i> , 2014, 28, 976-988.	1.6	8
27	Resonator-free optical bistability based on epsilon-near-zero mode. <i>Scientific Reports</i> , 2019, 9, 6552.	3.3	8
28	One to Many QKD Network System Using Polarization-Wavelength Division Multiplexing. <i>IEEE Access</i> , 2020, 8, 194007-194014.	4.2	8
29	Graphene optical modulators using bound states in the continuum. <i>Scientific Reports</i> , 2022, 12, 1445.	3.3	7
30	On-Chip Guiding of Higher-Order Orbital Angular Momentum Modes. <i>Photonics</i> , 2019, 6, 72.	2.0	6
31	Directional coupler design for orbital angular momentum mode-based photonic integrated circuits. <i>Optics Express</i> , 2020, 28, 30085.	3.4	5
32	Stability Condition of Finite-Element Beam Propagation Methods in Lossy Waveguides. <i>IEEE Journal of Quantum Electronics</i> , 2014, 50, 808-814.	1.9	4
33	Practical Perfect Absorption in Monolayer Graphene by Prism Coupling. <i>IEEE Photonics Journal</i> , 2017, 9, 1-10.	2.0	4
34	Model for cross-plane thermal conductivity of layered quantum semiconductor structures and application for thermal modeling of GaInAs/AlInAs-based quantum cascade lasers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 392-396.	1.8	3
35	Mirror-Less Unidirectional Radiation in an Asymmetric Single Resonator. <i>Journal of Lightwave Technology</i> , 2022, 40, 5163-5170.	4.6	3
36	Analysis of Bending-Induced Degradation of Orbital Angular Momentum Modes in Optical Fibers. <i>Photonics</i> , 2019, 6, 97.	2.0	2

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37	Low-loss Electrically Controllable Vertical Directional Couplers. <i>Current Optics and Photonics</i> , 2017, 1, 65-72.	0.7	2
38	Al _X Ga _{1-X} N Cladding Effect on Intraband Absorption of InGaN Disk Embedded in GaN Nanowire. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 3279-3284.	0.9	2
39	Experimental Demonstration of an Efficient Mach-Zehnder Modulator Bias Control for Quantum Key Distribution Systems. <i>Electronics (Switzerland)</i> , 2022, 11, 2207.	3.1	2
40	Design of negative index metamaterials in optical communication range. , 2007, , .		1
41	Ultracompact Si slot waveguide-based polarization rotators. <i>Microwave and Optical Technology Letters</i> , 2015, 57, 779-785.	1.4	1
42	Single-step metal-organic vapor-phase diffusion for low-dark-current planar-type avalanche photodiodes. <i>Journal of the Korean Physical Society</i> , 2016, 69, 1341-1346.	0.7	1
43	Generation of Decoy Signals Using Optical Amplifiers for a Plug-and-Play Quantum Key Distribution System. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6491.	2.5	1
44	Vertically asymmetric curved long-range plasmonic waveguide. , 2009, , .		0
45	Hetero-metal stripe as curved long-range SPP waveguide. , 2009, , .		0
46	Nanotechnology commercialization: World and Korean trends and their perspectives. , 2010, , .		0
47	Novel Tapers for Slow-Light Coupling in Photonic Crystal Waveguides. , 2012, , .		0
48	An even-symmetry optical guided mode in a graphene. , 2013, , .		0
49	Loss effect analysis in optical delay lines based on two coupled resonators. <i>Microwave and Optical Technology Letters</i> , 2014, 56, 2986-2987.	1.4	0