

# Sangin Kim

## List of Publications by Year in descending order

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49  
papers

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citations

687363

13  
h-index

713466

21  
g-index

52  
all docs

52  
docs citations

52  
times ranked

593  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene optical modulators using bound states in the continuum. <i>Scientific Reports</i> , 2022, 12, 1445.	3.3	7
2	Mirror-Less Unidirectional Radiation in an Asymmetric Single Resonator. <i>Journal of Lightwave Technology</i> , 2022, 40, 5163-5170.	4.6	3
3	2 $\Lambda$ -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
4	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
5	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
6	Ultra-compact integrated terahertz modulator based on a graphene metasurface. <i>Optics Letters</i> , 2021, 46, 605.	3.3	14
7	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
8	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
9	One to Many QKD Network System Using Polarization-Wavelength Division Multiplexing. <i>IEEE Access</i> , 2020, 8, 194007-194014.	4.2	8
10	Directional coupler design for orbital angular momentum mode-based photonic integrated circuits. <i>Optics Express</i> , 2020, 28, 30085.	3.4	5
11	On-Chip Guiding of Higher-Order Orbital Angular Momentum Modes. <i>Photonics</i> , 2019, 6, 72.	2.0	6
12	Broadband absorption enhancement of monolayer graphene by prism coupling in the visible range. <i>Carbon</i> , 2019, 154, 42-47.	10.3	20
13	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
14	Analysis of Bending-Induced Degradation of Orbital Angular Momentum Modes in Optical Fibers. <i>Photonics</i> , 2019, 6, 97.	2.0	2
15	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
16	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
17	Resonator-free optical bistability based on epsilon-near-zero mode. <i>Scientific Reports</i> , 2019, 9, 6552.	3.3	8
18	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

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19	Practical Plug-and-Play Measurement-Device-Independent Quantum Key Distribution With Polarization Division Multiplexing. IEEE Access, 2018, 6, 58587-58593.	4.2	24
20	Optical bistability based on hyperbolic metamaterials. Optics Express, 2018, 26, 11620.	3.4	25
21	A proposal of a perfect graphene absorber with enhanced design and fabrication tolerance. Scientific Reports, 2017, 7, 4760.	3.3	20
22	Practical Perfect Absorption in Monolayer Graphene by Prism Coupling. IEEE Photonics Journal, 2017, 9, 1-10.	2.0	4
23	Low-loss Electrically Controllable Vertical Directional Couplers. Current Optics and Photonics, 2017, 1, 65-72.	0.7	2
24	Al <sub>X</sub> Ga <sub>1-X</sub> N Cladding Effect on Intraband Absorption of InGaN Disk Embedded in GaN Nanowire. Journal of Nanoscience and Nanotechnology, 2017, 17, 3279-3284.	0.9	2
25	Multi-Functional Transparent Luminescent Configuration for Advanced Photovoltaics. Advanced Energy Materials, 2016, 6, 1502404.	19.5	10
26	Tunable Wide-Angle Tunneling in Graphene-Assisted Frustrated Total Internal Reflection. Scientific Reports, 2016, 6, 19975.	3.3	9
27	Single-step metal-organic vapor-phase diffusion for low-dark-current planar-type avalanche photodiodes. Journal of the Korean Physical Society, 2016, 69, 1341-1346.	0.7	1
28	Ultracompact Si slot waveguide-based polarization rotators. Microwave and Optical Technology Letters, 2015, 57, 779-785.	1.4	1
29	Plasmon-Induced Transparency in Coupled Graphene Gratings. Plasmonics, 2015, 10, 1557-1564.	3.4	13
30	Angle- and position-insensitive electrically tunable absorption in graphene by epsilon-near-zero effect. Optics Express, 2015, 23, 33350.	3.4	26
31	Optical reflection modulation using surface plasmon resonance in a graphene-embedded hybrid plasmonic waveguide at an optical communication wavelength. Optics Letters, 2015, 40, 871.	3.3	22
32	Loss effect analysis in optical delay lines based on two coupled resonators. Microwave and Optical Technology Letters, 2014, 56, 2986-2987.	1.4	0
33	Stability Condition of Finite-Element Beam Propagation Methods in Lossy Waveguides. IEEE Journal of Quantum Electronics, 2014, 50, 808-814.	1.9	4
34	Design of a wideband continuous-wave photomixer antenna for terahertz wireless communication systems. Journal of Electromagnetic Waves and Applications, 2014, 28, 976-988.	1.6	8
35	An even-symmetry optical guided mode in a graphene. , 2013, , .		0
36	Optical Absorption Characteristic in Thin a-Si Film Embedded Between an Ultrathin Metal Grating and a Metal Reflector. IEEE Photonics Journal, 2013, 5, 4800610-4800610.	2.0	13

#	ARTICLE	IF	CITATIONS
37	Novel Tapers for Slow-Light Coupling in Photonic Crystal Waveguides. , 2012, , .		0
38	All-Optical Switches Based on Multiple Cascaded Resonators With Reduced Switching Intensity-Response Time Products. Journal of Lightwave Technology, 2012, 30, 3525-3531.	4.6	14
39	THz Time-Domain Spectroscopic Imaging of Human Articular Cartilage. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 593-598.	2.2	10
40	Nanotechnology commercialization: World and Korean trends and their perspectives. , 2010, , .		0
41	Vertically asymmetric curved long-range plasmonic waveguide. , 2009, , .		0
42	Optical bistable devices based on guided-mode resonance in slab waveguide gratings. Optics Express, 2009, 17, 23459.	3.4	42
43	Tunable guided-mode resonances in coupled gratings. Optics Express, 2009, 17, 23544.	3.4	52
44	Hetero-metal stripe as curved long-range SPP waveguide. , 2009, , .		0
45	Optical waveguide and cavity effects on whispering-gallery mode resonances in a ZnO nanonail. Applied Physics Letters, 2009, 95, 221105.	3.3	25
46	Model for cross-plane thermal conductivity of layered quantum semiconductor structures and application for thermal modeling of GaInAs/AlInAs-based quantum cascade lasers. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 392-396.	1.8	3
47	Design of negative index metamaterials in optical communication range. , 2007, , .		1
48	Higher order optical resonant filters based on coupled defect resonators in photonic crystals. Journal of Lightwave Technology, 2005, 23, 1923-1928.	4.6	46
49	Proposal for ideal 3-dB splitters-combiners in photonic crystals. Optics Letters, 2005, 30, 257.	3.3	9