

Soon-Hong Kwon

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

3,237
citations

304602

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143943

57
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78
all docs

78
docs citations

78
times ranked

3036
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in nanocavities and their applications. <i>Chemical Communications</i> , 2021, 57, 4875-4885.	2.2	8
2	Ultralow-threshold laser using super-bound states in the continuum. <i>Nature Communications</i> , 2021, 12, 4135.	5.8	181
3	Epitaxial KNbO ₃ :Yb ³⁺ ,Er ³⁺ nanopattern for enhanced upconversion photoluminescence. <i>Journal of Alloys and Compounds</i> , 2020, 813, 152238.	2.8	3
4	Purcell-Enhanced and Indistinguishable Single-Photon Generation from Quantum Dots Coupled to On-Chip Integrated Ring Resonators. <i>Nano Letters</i> , 2020, 20, 6357-6363.	4.5	35
5	Hydrogen Sensor: Detecting Far-Field Scattering of Nano-Blocks (Mg, Ag, and Pd). <i>Sensors</i> , 2020, 20, 3831.	2.1	3
6	Far-Field Analysis on Reflecting Colors of Dielectric Nanosphere Metasurface. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-8.	1.5	1
7	Metal Slot Color Filter Based on Thin Air Slots on Silver Block Array. <i>Nanomaterials</i> , 2019, 9, 912.	1.9	0
8	Ultrathin Submicrometer Scale Multicolor Detector of Visible Light Based on Metamaterial. <i>Sensors</i> , 2019, 19, 4103.	2.1	1
9	Enhanced Conversion Process in a Sub-wavelength Thin Upconversion Layer by Using Metamaterial Mirror. <i>Plasmonics</i> , 2019, 14, 1227-1232.	1.8	6
10	Improving Upconversion Efficiency Based on Cross-Patterned Upconversion Material Slot Waveguides on a Silicon Layer. <i>Nanomaterials</i> , 2019, 9, 520.	1.9	1
11	Near-Unity Indistinguishability Single Photon Source for Large-Scale Integrated Quantum Optics. <i>Physical Review Letters</i> , 2019, 122, 173602.	2.9	42
12	Achieving full color with a strong Mie resonance using a silicon U-shape nanostructure metasurface. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 055105.	1.0	6
13	Spontaneous Emission Enhancement in Strain-Induced WSe ₂ Monolayer-Based Quantum Light Sources on Metallic Surfaces. <i>ACS Photonics</i> , 2018, 5, 1919-1926.	3.2	78
14	Photonic Crystal Cavity with a Thin Low-Index Layer for Silicon-Compatible Nanolight Source. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1552.	1.3	4
15	Horizontal Plasmonic Ruler Based on the Scattering Far-Field Pattern. <i>Sensors</i> , 2018, 18, 3365.	2.1	2
16	Deterministic coupling of quantum emitters in WSe ₂ monolayers to plasmonic nanocavities. <i>Optics Express</i> , 2018, 26, 25944.	1.7	33
17	Nanometric Plasmonic Rulers Based on Orthogonal Plasmonic Gap Modes in Metal Nanoblocks. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 386.	1.3	1
18	Photon-triggered nanowire transistors. <i>Nature Nanotechnology</i> , 2017, 12, 963-968.	15.6	95

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19	All dielectric reflective metasurface for controlling phase and polarization by using silicon nanoblocks. AIP Conference Proceedings, 2017, , .	0.3	0
20	Broadband Tunable Add/Drop Filters Based on Dielectric Double-Disk Microcavities. IEEE Photonics Journal, 2017, 9, 1-7.	1.0	6
21	Plasmonic Waveguide Coupled Ring Cavity for a Non-Resonant Type Refractive Index Sensor. Sensors, 2017, 17, 2526.	2.1	5
22	Mach-Zehnder Interferometer Refractive Index Sensor Based on a Plasmonic Channel Waveguide. Sensors, 2017, 17, 2584.	2.1	13
23	Wavelength Conversion Enhancement Achieved by Using Resonance in an Array of Nanocylinders. Applied Sciences (Switzerland), 2017, 7, 1246.	1.3	1
24	A Metal-Insulator-Metal Deep Subwavelength Cavity Based on Cutoff Frequency Modulation. Applied Sciences (Switzerland), 2017, 7, 86.	1.3	8
25	Low cross-talk, deep subwavelength plasmonic metal/insulator/metal waveguide intersections with broadband tunability. Photonics Research, 2016, 4, 272.	3.4	9
26	Multi-Functional Transparent Luminescent Configuration for Advanced Photovoltaics. Advanced Energy Materials, 2016, 6, 1502404.	10.2	10
27	Enhancement of wavelength conversion in subwavelength thickness layer based on metamaterial mirror. , 2016, , .		0
28	Printing color using resonant scattering of Si nanoparticle array. , 2016, , .		0
29	A high-resolution strain-gauge nanolaser. Nature Communications, 2016, 7, 11569.	5.8	60
30	Spatially relocatable and spectrally tunable photonic crystal cavity by using a microsphere. Journal of Nanophotonics, 2016, 10, 030501.	0.4	1
31	Dependence of Q Factor on Surface Roughness in a Plasmonic Cavity. Journal of the Optical Society of Korea, 2016, 20, 188-191.	0.6	6
32	Dual-Function Metal-Insulator-Metal Plasmonic Optical Filter. IEEE Photonics Journal, 2015, 7, 1-8.	1.0	9
33	Spectral tuning of an add-drop filter by using double dielectric microdisks. , 2015, , .		0
34	Three-dimensional plasmonic ruler based on silver metal blocks. , 2015, , .		0
35	Spatial mapping of refractive index based on a plasmonic tapered channel waveguide. Optics Express, 2015, 23, 5907.	1.7	4
36	Low-threshold photonic-band-edge laser using iron-nail-shaped rod array. Applied Physics Letters, 2014, 104, 091120.	1.5	12

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37	Nonresonant-Type Refractive Index Sensor Based on an Ultrasmall Plasmonic Cavity. IEEE Photonics Technology Letters, 2014, 26, 621-624.	1.3	1
38	Sensitive Hydrogen Sensors Based on Gold-Palladium Double Nanoblock. IEEE Photonics Technology Letters, 2014, 26, 2232-2235.	1.3	5
39	Design of plasmonic cavities. Nano Convergence, 2014, 1, 8.	6.3	7
40	Sub-Micrometer-Sized Spectrometer by Using Plasmonic Tapered Channel-Waveguide. Journal of the Optical Society of Korea, 2014, 18, 788-792.	0.6	2
41	Low-threshold photonic-band-edge laser using iron-nail-shaped rod array. , 2014, , .		0
42	Plasmonic Ruler With Angstrom Distance Resolution Based on Double Metal Blocks. IEEE Photonics Technology Letters, 2013, 25, 1619-1622.	1.3	12
43	Optimization of a micropillar cavity for an efficient single-photon source. Journal of the Korean Physical Society, 2013, 62, 210-213.	0.3	2
44	Ultrasmall Plasmonic Cavity for Chemical Sensing. Plasmonics, 2013, 8, 963-967.	1.8	8
45	Deep Subwavelength-Scale Metal-Insulator-Metal Plasmonic Disk Cavities for Refractive Index Sensors. IEEE Photonics Journal, 2013, 5, 4800107-4800107.	1.0	22
46	Graphene-contact electrically driven microdisk lasers. , 2013, , .		0
47	Electrically Driven Nanobeam Photonic Crystal Laser. , 2013, , .		0
48	Graphene-contact electrically driven microdisk lasers. Nature Communications, 2012, 3, 1123.	5.8	35
49	Deep subwavelength plasmonic whispering-gallery-mode cavity. Optics Express, 2012, 20, 24918.	1.7	34
50	Subwavelength plasmonic lasers. , 2012, , .		0
51	Photonic Crystal Lasers. Semiconductors and Semimetals, 2012, , 301-333.	0.4	9
52	Fourier Space Analysis of an Elliptical Micropillar Cavity. IEEE Journal of Quantum Electronics, 2012, 48, 419-424.	1.0	1
53	Nonlinear Mixing in Nanowire Subwavelength Waveguides. Nano Letters, 2011, 11, 3022-3025.	4.5	48
54	Design of polarization-selective light emitters using one-dimensional metal grating mirror. Optics Express, 2011, 19, 1609.	1.7	10

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55	Room-temperature high-Q channel-waveguide surface plasmon nanocavity. Optics Express, 2011, 19, 13892.	1.7	19
56	Ultrasmall subwavelength nanorod plasmonic cavity. Optics Letters, 2011, 36, 2011.	1.7	25
57	Surface Plasmonic Nanodisk/Nanoplasmonic Lasers. IEEE Journal of Quantum Electronics, 2011, 47, 1346-1353.	1.0	23
58	Surface-plasmon-induced light absorption on a rough silver surface. Applied Physics Letters, 2011, 98, 011109.	1.5	66
59	High-efficiency vertical GaN slab light-emitting diodes using self-coherent directional emitters. Optics Express, 2010, 18, 11025.	1.7	26
60	Subwavelength Plasmonic Lasing from a Semiconductor Nanodisk with Silver Nanoplasmonic Cavity. Nano Letters, 2010, 10, 3679-3683.	4.5	223
61	Subwavelength plasmonic lasers. , 2010, , .		0
62	Highly Directional Vertical Beaming of Photonic Crystal Coupled Cavities. Applied Physics Express, 2010, 3, 112001.	1.1	5
63	Full Three-Dimensional Subwavelength High-Q Surface-Plasmon-Polariton Cavity. Nano Letters, 2009, 9, 4078-4082.	4.5	60
64	Characteristics of dielectric-band modified single-cell photonic crystal lasers. Optics Express, 2009, 17, 1679.	1.7	8
65	Two-dimensionally relocatable microfiber-coupled photonic crystal resonator. Optics Express, 2009, 17, 13009.	1.7	13
66	Ultra-high-Q photonic crystal cavity created by modulating air hole radius of a waveguide. Optics Express, 2008, 16, 4605.	1.7	39
67	Elimination of cross-talk in waveguide intersections of triangular lattice photonic crystals. Optics Express, 2008, 16, 11399.	1.7	10
68	Optimization of photonic crystal cavity for chemical sensing. Optics Express, 2008, 16, 11709.	1.7	78
69	Lasing in metallic-coated nanocavities. Nature Photonics, 2007, 1, 589-594.	15.6	732
70	Standing metallic nanostripe array structure. , 2006, 6353, 702.		0
71	Photonic Crystal-Based Laser Devices. , 2005, , FThE1.		0
72	Electrically Driven Single-Cell Photonic Crystal Laser. Science, 2004, 305, 1444-1447.	6.0	768

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73	Small, low-loss heterogeneous photonic bandedge laser. Optics Express, 2004, 12, 5356.	1.7	32
74	Single-mode operation of two-dimensional photonic crystal laser with central post. IEEE Photonics Technology Letters, 2003, 15, 1327-1329.	1.3	22
75	Photonic bandedge lasers in two-dimensional square-lattice photonic crystal slabs. Applied Physics Letters, 2003, 83, 3870-3872.	1.5	90
76	Low-threshold Photonic Crystal Lasers from InGaAsP Free-standing Slab Structures. Journal of the Optical Society of Korea, 2002, 6, 59-71.	0.6	9
77	Very-low-threshold photonic band-edge lasers from free-standing triangular photonic crystal slabs. Applied Physics Letters, 2002, 80, 3476-3478.	1.5	149
78	Very low threshold photonic band edge lasers from free-standing triangular photonic crystal slabs. , 0, , .		0