

Soon-Hong Kwon

List of Publications by Year in descending order

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78
papers

3,237
citations

304368

22
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143772

57
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78
all docs

78
docs citations

78
times ranked

3036
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically Driven Single-Cell Photonic Crystal Laser. <i>Science</i> , 2004, 305, 1444-1447.	6.0	768
2	Lasing in metallic-coated nanocavities. <i>Nature Photonics</i> , 2007, 1, 589-594.	15.6	732
3	Subwavelength Plasmonic Lasing from a Semiconductor Nanodisk with Silver Nanoparticle Cavity. <i>Nano Letters</i> , 2010, 10, 3679-3683.	4.5	223
4	Ultralow-threshold laser using super-bound states in the continuum. <i>Nature Communications</i> , 2021, 12, 4135.	5.8	181
5	Very-low-threshold photonic band-edge lasers from free-standing triangular photonic crystal slabs. <i>Applied Physics Letters</i> , 2002, 80, 3476-3478.	1.5	149
6	Photon-triggered nanowire transistors. <i>Nature Nanotechnology</i> , 2017, 12, 963-968.	15.6	95
7	Photonic band-edge lasers in two-dimensional square-lattice photonic crystal slabs. <i>Applied Physics Letters</i> , 2003, 83, 3870-3872.	1.5	90
8	Optimization of photonic crystal cavity for chemical sensing. <i>Optics Express</i> , 2008, 16, 11709.	1.7	78
9	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
10	Surface-plasmon-induced light absorption on a rough silver surface. <i>Applied Physics Letters</i> , 2011, 98, 011109.	1.5	66
11	Full Three-Dimensional Subwavelength High-Q Surface-Plasmon-Polariton Cavity. <i>Nano Letters</i> , 2009, 9, 4078-4082.	4.5	60
12	A high-resolution strain-gauge nanolaser. <i>Nature Communications</i> , 2016, 7, 11569.	5.8	60
13	Nonlinear Mixing in Nanowire Subwavelength Waveguides. <i>Nano Letters</i> , 2011, 11, 3022-3025.	4.5	48
14	Near-Unity Indistinguishability Single Photon Source for Large-Scale Integrated Quantum Optics. <i>Physical Review Letters</i> , 2019, 122, 173602.	2.9	42
15	Ultrahigh-Q photonic crystal cavity created by modulating air hole radius of a waveguide. <i>Optics Express</i> , 2008, 16, 4605.	1.7	39
16	Graphene-contact electrically driven microdisk lasers. <i>Nature Communications</i> , 2012, 3, 1123.	5.8	35
17	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
18	Deep subwavelength plasmonic whispering-gallery-mode cavity. <i>Optics Express</i> , 2012, 20, 24918.	1.7	34

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19	Deterministic coupling of quantum emitters in WSe_2 monolayers to plasmonic nanocavities. Optics Express, 2018, 26, 25944.	1.7	33
20	Small, low-loss heterogeneous photonic bandedge laser. Optics Express, 2004, 12, 5356.	1.7	32
21	High-efficiency vertical GaN slab light-emitting diodes using self-coherent directional emitters. Optics Express, 2010, 18, 11025.	1.7	26
22	Ultrasmall subwavelength nanorod plasmonic cavity. Optics Letters, 2011, 36, 2011.	1.7	25
23	Surface Plasmonic Nanodisk/Nanoplasmon Lasers. IEEE Journal of Quantum Electronics, 2011, 47, 1346-1353.	1.0	23
24	Single-mode operation of two-dimensional photonic crystal laser with central post. IEEE Photonics Technology Letters, 2003, 15, 1327-1329.	1.3	22
25	Deep Subwavelength-Scale Metal-Insulator-Metal Plasmonic Disk Cavities for Refractive Index Sensors. IEEE Photonics Journal, 2013, 5, 4800107-4800107.	1.0	22
26	Room-temperature high-Q channel-waveguide surface plasmon nanocavity. Optics Express, 2011, 19, 13892.	1.7	19
27	Two-dimensionally relocatable microfiber-coupled photonic crystal resonator. Optics Express, 2009, 17, 13009.	1.7	13
28	Mach-Zehnder Interferometer Refractive Index Sensor Based on a Plasmonic Channel Waveguide. Sensors, 2017, 17, 2584.	2.1	13
29	Plasmonic Ruler With Angstrom Distance Resolution Based on Double Metal Blocks. IEEE Photonics Technology Letters, 2013, 25, 1619-1622.	1.3	12
30	Low-threshold photonic-band-edge laser using iron-nail-shaped rod array. Applied Physics Letters, 2014, 104, 091120.	1.5	12
31	Elimination of cross-talk in waveguide intersections of triangular lattice photonic crystals. Optics Express, 2008, 16, 11399.	1.7	10
32	Design of polarization-selective light emitters using one-dimensional metal grating mirror. Optics Express, 2011, 19, 1609.	1.7	10
33	Multi-Functional Transparent Luminescent Configuration for Advanced Photovoltaics. Advanced Energy Materials, 2016, 6, 1502404.	10.2	10
34	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
35	Photonic Crystal Lasers. Semiconductors and Semimetals, 2012, , 301-333.	0.4	9
36	Dual-Function Metal-Insulator-Metal Plasmonic Optical Filter. IEEE Photonics Journal, 2015, 7, 1-8.	1.0	9

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37	Low cross-talk, deep subwavelength plasmonic metal/insulator/metal waveguide intersections with broadband tunability. <i>Photonics Research</i> , 2016, 4, 272.	3.4	9
38	Characteristics of dielectric-band modified single-cell photonic crystal lasers. <i>Optics Express</i> , 2009, 17, 1679.	1.7	8
39	Ultrasmall Plasmonic Cavity for Chemical Sensing. <i>Plasmonics</i> , 2013, 8, 963-967.	1.8	8
40	A Metal-Insulator-Metal Deep Subwavelength Cavity Based on Cutoff Frequency Modulation. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 86.	1.3	8
41	Recent advances in nanocavities and their applications. <i>Chemical Communications</i> , 2021, 57, 4875-4885.	2.2	8
42	Design of plasmonic cavities. <i>Nano Convergence</i> , 2014, 1, 8.	6.3	7
43	Broadband Tunable Add/Drop Filters Based on Dielectric Double-Disk Microcavities. <i>IEEE Photonics Journal</i> , 2017, 9, 1-7.	1.0	6
44	Enhanced Conversion Process in a Sub-wavelength Thin Upconversion Layer by Using Metamaterial Mirror. <i>Plasmonics</i> , 2019, 14, 1227-1232.	1.8	6
45	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
46	Dependence of Q Factor on Surface Roughness in a Plasmonic Cavity. <i>Journal of the Optical Society of Korea</i> , 2016, 20, 188-191.	0.6	6
47	Sensitive Hydrogen Sensors Based on Gold-Palladium Double Nanoblock. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 2232-2235.	1.3	5
48	Plasmonic Waveguide Coupled Ring Cavity for a Non-Resonant Type Refractive Index Sensor. <i>Sensors</i> , 2017, 17, 2526.	2.1	5
49	Highly Directional Vertical Beaming of Photonic Crystal Coupled Cavities. <i>Applied Physics Express</i> , 2010, 3, 112001.	1.1	5
50	Spatial mapping of refractive index based on a plasmonic tapered channel waveguide. <i>Optics Express</i> , 2015, 23, 5907.	1.7	4
51	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
52	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
53	Hydrogen Sensor: Detecting Far-Field Scattering of Nano-Blocks (Mg, Ag, and Pd). <i>Sensors</i> , 2020, 20, 3831.	2.1	3
54	Optimization of a micropillar cavity for an efficient single-photon source. <i>Journal of the Korean Physical Society</i> , 2013, 62, 210-213.	0.3	2

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55	Horizontal Plasmonic Ruler Based on the Scattering Far-Field Pattern. <i>Sensors</i> , 2018, 18, 3365.	2.1	2
56	Sub-Micrometer-Sized Spectrometer by Using Plasmonic Tapered Channel-Waveguide. <i>Journal of the Optical Society of Korea</i> , 2014, 18, 788-792.	0.6	2
57	Fourier Space Analysis of an Elliptical Micropillar Cavity. <i>IEEE Journal of Quantum Electronics</i> , 2012, 48, 419-424.	1.0	1
58	Nonresonant-Type Refractive Index Sensor Based on an Ultrasmall Plasmonic Cavity. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 621-624.	1.3	1
59	Spatially relocatable and spectrally tunable photonic crystal cavity by using a microsphere. <i>Journal of Nanophotonics</i> , 2016, 10, 030501.	0.4	1
60	Wavelength Conversion Enhancement Achieved by Using Resonance in an Array of Nanocylinders. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1246.	1.3	1
61	Nanometric Plasmonic Rulers Based on Orthogonal Plasmonic Gap Modes in Metal Nanoblocks. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 386.	1.3	1
62	Far-Field Analysis on Reflecting Colors of Dielectric Nanosphere Metasurface. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-8.	1.5	1
63	Ultrathin Submicrometer Scale Multicolor Detector of Visible Light Based on Metamaterial. <i>Sensors</i> , 2019, 19, 4103.	2.1	1
64	Improving Upconversion Efficiency Based on Cross-Patterned Upconversion Material Slot Waveguides on a Silicon Layer. <i>Nanomaterials</i> , 2019, 9, 520.	1.9	1
65	Very low threshold photonic band edge lasers from free-standing triangular photonic crystal slabs. , 0, , .		0
66	Photonic Crystal-Based Laser Devices. , 2005, , FThE1.		0
67	Standing metallic nanostripe array structure. , 2006, 6353, 702.		0
68	Subwavelength plasmonic lasers. , 2010, , .		0
69	Subwavelength plasmonic lasers. , 2012, , .		0
70	Spectral tuning of an add-drop filter by using double dielectric microdisks. , 2015, , .		0
71	Three-dimensional plasmonic ruler based on silver metal blocks. , 2015, , .		0
72	Enhancement of wavelength conversion in subwavelength thickness layer based on metamaterial mirror. , 2016, , .		0

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73	Printing color using resonant scattering of Si nanoparticle array. , 2016, , .		0
74	All dielectric reflective metasurface for controlling phase and polarization by using silicon nanoblocks. AIP Conference Proceedings, 2017, , .	0.3	0
75	Metal Slot Color Filter Based on Thin Air Slots on Silver Block Array. Nanomaterials, 2019, 9, 912.	1.9	0
76	Graphene-contact electrically driven microdisk lasers. , 2013, , .		0
77	Electrically Driven Nanobeam Photonic Crystal Laser. , 2013, , .		0
78	Low-threshold photonic-band-edge laser using iron-nail-shaped rod array. , 2014, , .		0