

# Seok Ho Song

## List of Publications by Year in descending order

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52  
papers

1,553  
citations

394421

19  
h-index

302126

39  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1724  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic Topological Nodal Phase in Bilayer Resonant Gratings. <i>Physical Review Letters</i> , 2022, 128, 053002.	7.8	6
2	Inverse-cavity structure for low-threshold miniature lasers. <i>Scientific Reports</i> , 2022, 12, .	3.3	1
3	Metasurface-driven OLED displays beyond 10,000 pixels per inch. <i>Science</i> , 2020, 370, 459-463.	12.6	212
4	Direct observation of time-asymmetric breakdown of the standard adiabaticity around an exceptional point. <i>Communications Physics</i> , 2020, 3, .	5.3	6
5	Nanophotonic identification of defects buried in three-dimensional NAND flash memory devices. <i>Nature Electronics</i> , 2018, 1, 60-67.	26.0	6
6	Time-asymmetric loop around an exceptional point over the full optical communications band. <i>Nature</i> , 2018, 562, 86-90.	27.8	139
7	Observation of an anti-PT-symmetric exceptional point and energy-difference conserving dynamics in electrical circuit resonators. <i>Nature Communications</i> , 2018, 9, 2182.	12.8	180
8	Extremely broadband, on-chip optical nonreciprocity enabled by mimicking nonlinear anti-adiabatic quantum jumps near exceptional points. <i>Nature Communications</i> , 2017, 8, 14154.	12.8	83
9	Observation of exceptional points in reconfigurable non-Hermitian vector-field holographic lattices. <i>Nature Communications</i> , 2016, 7, 12201.	12.8	51
10	Active asymmetric plasmonic Bragg gratings. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
11	Unidirectional Bragg Gratings Using Parity-Time Symmetry Breaking in Plasmonic Systems. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 48-59.	2.9	14
12	Plasmonic gain in long-range surface plasmon polariton waveguides bounded symmetrically by dye-doped polymer. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	8
13	Critical field enhancement of asymptotic optical bound states in the continuum. <i>Scientific Reports</i> , 2015, 5, 18301.	3.3	124
14	Unified Theory of Surface-Plasmonic Enhancement and Extinction of Light Transmission through Metallic Nanoslit Arrays. <i>Scientific Reports</i> , 2015, 4, 5683.	3.3	23
15	Parity-time-symmetry breaking in double-slab surface-plasmon-polariton waveguides. <i>Optics Express</i> , 2015, 23, 11783.	3.4	10
16	Single-mode lasers and parity-time symmetry broken gratings based on active dielectric-loaded long-range surface plasmon polariton waveguides. <i>Optics Express</i> , 2015, 23, 19922.	3.4	14
17	Temperature and gain tuning of plasmonic coherent perfect absorbers. <i>Optics Express</i> , 2015, 23, 19837.	3.4	8
18	Gain-assisted critical coupling for high-performance coherent perfect absorbers. <i>Optics Letters</i> , 2015, 40, 2309.	3.3	5

#	ARTICLE	IF	CITATIONS
19	Ultra-high-Q metallic nanocavity resonances with externally-amplified intracavity feedback. Scientific Reports, 2015, 4, 7124.	3.3	3
20	A semiconductor metasurface with multiple functionalities: A polarizing beam splitter with simultaneous focusing ability. Applied Physics Letters, 2014, 104, .	3.3	45
21	Minimal formulation of the resonance properties of metallic nanoslit arrays. , 2012, , .		0
22	Analytic Theory of the Resonance Properties of Metallic Nanoslit Arrays. IEEE Journal of Quantum Electronics, 2012, 48, 852-861.	1.9	32
23	Measurement and Modeling of a Complete Optical Absorption and Scattering by Coherent Surface Plasmon-Polariton Excitation Using a Silver Thin-Film Grating. Physical Review Letters, 2012, 109, 257402.	7.8	67
24	Surface-plasmon mediated total absorption of light into silicon. Optics Express, 2011, 19, 20673.	3.4	14
25	Demonstration of long-range surface plasmon-polariton waveguide sensors with asymmetric double-electrode structures. Applied Physics Letters, 2010, 97, 201105.	3.3	28
26	Critical coupling in dissipative surface-plasmon resonators with multiple ports. Optics Express, 2010, 18, 25702.	3.4	65
27	Long-range surface plasmon-polariton waveguide sensors with a Bragg grating in the asymmetric double-electrode structure. Optics Express, 2009, 17, 10606.	3.4	21
28	Optical bistable devices based on guided-mode resonance in slab waveguide gratings. Optics Express, 2009, 17, 23459.	3.4	42
29	Long-range surface plasmon polaritons on asymmetric double-electrode structures. Applied Physics Letters, 2008, 92, 161103.	3.3	18
30	Flat-top surface plasmon-polariton modes guided by double-electrode structures. Optics Express, 2007, 15, 17151.	3.4	15
31	Metallic nanocluster gratings generated by near-field coupling of localized surface plasmons. Optics Express, 2006, 14, 11814.	3.4	7
32	Vertical coupling of long-range surface plasmon polaritons. Applied Physics Letters, 2006, 88, 011110.	3.3	64
33	Subwavelength Focusing of Light From a Metallic Slit Surrounded by Grooves with Chirped Period. Journal of the Optical Society of Korea, 2005, 9, 162-168.	0.6	4
34	Backpropagating modes of surface polaritons on a cross-negative interface. Optics Express, 2005, 13, 417.	3.4	9
35	Arbitrary structuring of two-dimensional photonic crystals by use of phase-only Fourier gratings. Optics Letters, 2004, 29, 2539.	3.3	23
36	Surface-plasmon photonic band gaps in dielectric gratings on a flat metal surface. Journal of Applied Physics, 2003, 94, 123-129.	2.5	30

#	ARTICLE	IF	CITATIONS
37	Resonant coupling of surface plasmons to radiation modes by use of dielectric gratings. Optics Letters, 2003, 28, 1870.	3.3	85
38	Fabrication of multiple-pitch waveguide gratings by using a single CGH phase mask. , 2002, , .		0
39	<title>Three-dimensional planar-integrated optics: a comparative view with free-space optics</title>. , 2000, , .		1
40	Gradient-index planar optics for optical interconnections. Optics Letters, 1998, 23, 1025.	3.3	21
41	Generation of multiple-pitch gratings in WDM devices by using a single computer-generated phase mask. IEEE Photonics Technology Letters, 1997, 9, 58-60.	2.5	3
42	Parallel detection of WDM packet addresses by using three-dimensional planar integrated optics. IEEE Photonics Technology Letters, 1997, 9, 112-114.	2.5	4
43	Beam-array combination with planar integrated optics for three-dimensional multistage interconnection networks. Applied Optics, 1997, 36, 5728.	2.1	13
44	Planar optical implementation of multichannel fractional Fourier transforms. Optics Communications, 1997, 137, 219-222.	2.1	7
45	Planar optical implementation of fractional correlation. Optics Communications, 1997, 143, 287-293.	2.1	6
46	3-Dimensionally Integrated Planar Optics for 100 Gb/s Optical Packet Address Detection. ETRI Journal, 1995, 17, 1-10.	2.0	15
47	Optical implementation of a quadratic associative memory by using the polarization-encoding process. Optics Letters, 1990, 15, 1389.	3.3	3
48	Properties of holographic associative memory prepared by the polarization encoding process. Applied Optics, 1988, 27, 3149.	2.1	16
49	Experimental and numerical analyses of diffused light holographic associative memory. Applied Optics, 1988, 27, 3590.	2.1	1
50	Planar optical interconnections for 100 Gb/s packet address detection. , 0, , .		0
51	Sulfonation as a new technique of fabricating polymeric gradient-index lenses. , 0, , .		1
52	Multiple-pitch gratings for WDM devices generated by single computer-generated phase mask. , 0, , .		0