

# 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	Metasurface-driven OLED displays beyond 10,000 pixels per inch. <i>Science</i> , 2020, 370, 459-463.	12.6	212
2	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
3	Time-asymmetric loop around an exceptional point over the full optical communications band. <i>Nature</i> , 2018, 562, 86-90.	27.8	139
4	Critical field enhancement of asymptotic optical bound states in the continuum. <i>Scientific Reports</i> , 2015, 5, 18301.	3.3	124
5	Resonant coupling of surface plasmons to radiation modes by use of dielectric gratings. <i>Optics Letters</i> , 2003, 28, 1870.	3.3	85
6	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
7	Measurement and Modeling of a Complete Optical Absorption and Scattering by Coherent Surface Plasmon-Polariton Excitation Using a Silver Thin-Film Grating. <i>Physical Review Letters</i> , 2012, 109, 257402.	7.8	67
8	Critical coupling in dissipative surface-plasmon resonators with multiple ports. <i>Optics Express</i> , 2010, 18, 25702.	3.4	65
9	Vertical coupling of long-range surface plasmon polaritons. <i>Applied Physics Letters</i> , 2006, 88, 011110.	3.3	64
10	Observation of exceptional points in reconfigurable non-Hermitian vector-field holographic lattices. <i>Nature Communications</i> , 2016, 7, 12201.	12.8	51
11	A semiconductor metasurface with multiple functionalities: A polarizing beam splitter with simultaneous focusing ability. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	45
12	Optical bistable devices based on guided-mode resonance in slab waveguide gratings. <i>Optics Express</i> , 2009, 17, 23459.	3.4	42
13	Analytic Theory of the Resonance Properties of Metallic Nanoslit Arrays. <i>IEEE Journal of Quantum Electronics</i> , 2012, 48, 852-861.	1.9	32
14	Surface-plasmon photonic band gaps in dielectric gratings on a flat metal surface. <i>Journal of Applied Physics</i> , 2003, 94, 123-129.	2.5	30
15	Demonstration of long-range surface plasmon-polariton waveguide sensors with asymmetric double-electrode structures. <i>Applied Physics Letters</i> , 2010, 97, 201105.	3.3	28
16	Arbitrary structuring of two-dimensional photonic crystals by use of phase-only Fourier gratings. <i>Optics Letters</i> , 2004, 29, 2539.	3.3	23
17	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
18	Gradient-index planar optics for optical interconnections. <i>Optics Letters</i> , 1998, 23, 1025.	3.3	21

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19	Long-range surface plasmon-polariton waveguide sensors with a Bragg grating in the asymmetric double-electrode structure. <i>Optics Express</i> , 2009, 17, 10606.	3.4	21
20	Long-range surface plasmon polaritons on asymmetric double-electrode structures. <i>Applied Physics Letters</i> , 2008, 92, 161103.	3.3	18
21	Properties of holographic associative memory prepared by the polarization encoding process. <i>Applied Optics</i> , 1988, 27, 3149.	2.1	16
22	3-Dimensionally Integrated Planar Optics for 100 Gb/s Optical Packet Address Detection. <i>ETRI Journal</i> , 1995, 17, 1-10.	2.0	15
23	Flat-top surface plasmon-polariton modes guided by double-electrode structures. <i>Optics Express</i> , 2007, 15, 17151.	3.4	15
24	Surface-plasmon mediated total absorption of light into silicon. <i>Optics Express</i> , 2011, 19, 20673.	3.4	14
25	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
26	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
27	Beam-array combination with planar integrated optics for three-dimensional multistage interconnection networks. <i>Applied Optics</i> , 1997, 36, 5728.	2.1	13
28	Parity-time-symmetry breaking in double-slab surface-plasmon-polariton waveguides. <i>Optics Express</i> , 2015, 23, 11783.	3.4	10
29	Backpropagating modes of surface polaritons on a cross-negative interface. <i>Optics Express</i> , 2005, 13, 417.	3.4	9
30	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
31	Temperature and gain tuning of plasmonic coherent perfect absorbers. <i>Optics Express</i> , 2015, 23, 19837.	3.4	8
32	Planar optical implementation of multichannel fractional Fourier transforms. <i>Optics Communications</i> , 1997, 137, 219-222.	2.1	7
33	Metallic nanocluster gratings generated by near-field coupling of localized surface plasmons. <i>Optics Express</i> , 2006, 14, 11814.	3.4	7
34	Planar optical implementation of fractional correlation. <i>Optics Communications</i> , 1997, 143, 287-293.	2.1	6
35	Nanophotonic identification of defects buried in three-dimensional NAND flash memory devices. <i>Nature Electronics</i> , 2018, 1, 60-67.	26.0	6
36	Direct observation of time-asymmetric breakdown of the standard adiabaticity around an exceptional point. <i>Communications Physics</i> , 2020, 3, .	5.3	6

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37	Synthetic Topological Nodal Phase in Bilayer Resonant Gratings. Physical Review Letters, 2022, 128, 053002.	7.8	6
38	Gain-assisted critical coupling for high-performance coherent perfect absorbers. Optics Letters, 2015, 40, 2309.	3.3	5
39	Parallel detection of WDM packet addresses by using three-dimensional planar integrated optics. IEEE Photonics Technology Letters, 1997, 9, 112-114.	2.5	4
40	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
41	Optical implementation of a quadratic associative memory by using the polarization-encoding process. Optics Letters, 1990, 15, 1389.	3.3	3
42	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
43	Ultrahigh-Q metallic nanocavity resonances with externally-amplified intracavity feedback. Scientific Reports, 2015, 4, 7124.	3.3	3
44	Experimental and numerical analyses of diffused light holographic associative memory. Applied Optics, 1988, 27, 3590.	2.1	1
45	Sulfonation as a new technique of fabricating polymeric gradient-index lenses. , 0, , .		1
46	<title>Three-dimensional planar-integrated optics: a comparative view with free-space optics</title>. , 2000, , .		1
47	Inverse-cavity structure for low-threshold miniature lasers. Scientific Reports, 2022, 12, .	3.3	1
48	Planar optical interconnections for 100 Gb/s packet address detection. , 0, , .		0
49	Multiple-pitch gratings for WDM devices generated by single computer-generated phase mask. , 0, , .		0
50	Fabrication of multiple-pitch waveguide gratings by using a single CGH phase mask. , 2002, , .		0
51	Minimal formulation of the resonance properties of metallic nanoslit arrays. , 2012, , .		0
52	Active asymmetric plasmonic Bragg gratings. Proceedings of SPIE, 2016, , .	0.8	0