

# Heeso Noh

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

3,025

citations

26

h-index

55

g-index

87

ext. papers

3,465

ext. citations

5.9

avg, IF

4.74

L-index

#	Paper	IF	Citations
63	Mass Fabrication of 3D Silicon Nano-/Microstructures by Fab-Free Process Using Tip-Based Lithography. <i>Small</i> , <b>2021</b> , 17, e2005036	11	5
62	One-Way Zero Reflection in an Insulator-Metal-Insulator Structure Using the Transfer Matrix Method. <i>Photonics</i> , <b>2021</b> , 8, 8	2.2	
61	Compact, High-resolution Inverse-Designed On-Chip Spectrometer Based on Tailored Disorder Modes. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2000556	8.3	3
60	Unidirectional incident wave for an electromagnetic wave simulation using the finite element method. <i>Journal of the Korean Physical Society</i> , <b>2021</b> , 78, 587-593	0.6	0
59	Linear Fresnel Lens for a Solar Cell with above 85% Focal Efficiency. <i>Journal of the Korean Physical Society</i> , <b>2020</b> , 76, 722-726	0.6	
58	Bio-Photonic Waveguide of a DNA-Hybrid Semiconductor Prismatic Hexagon. <i>Advanced Materials</i> , <b>2020</b> , 32, e2005238	24	3
57	Effect of Wavelength-Scale Cu <sub>2</sub> O Particles on the Performance of Photocathodes for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 24846-24854	3.8	3
56	Fabrication of diffraction gratings by top-down and bottom-up approaches based on scanning probe lithography. <i>Nanoscale</i> , <b>2019</b> , 11, 2326-2334	7.7	8
55	Image Scanning Method for Vascular Pattern Recognition. <i>Journal of the Korean Physical Society</i> , <b>2019</b> , 75, 218-222	0.6	
54	Investigation of a broadband coherent perfect absorber in a multi-layer structure by using the transfer matrix method. <i>Journal of the Korean Physical Society</i> , <b>2018</b> , 72, 66-70	0.6	3
53	Enhanced absorption by coherent control in a photonic crystal resonator coupled with a microfiber. <i>Optics Letters</i> , <b>2018</b> , 43, 5532-5534	3	2
52	Polycrystalline Au Nanomembrane as a Tool for Two-Tone Micro/Nanolithography. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 3863-3872	9.6	5
51	Control of the oscillation threshold with asymmetric gain in operational amplifiers. <i>Journal of the Korean Physical Society</i> , <b>2016</b> , 68, 752-755	0.6	
50	Lasing in an optimized deterministic aperiodic nanobeam cavity. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 241106	0.4	0
49	Investigation of the polarization-dependent optical force in optical tweezers by using generalized Lorenz-Mie theory. <i>Journal of the Korean Physical Society</i> , <b>2015</b> , 67, 2086-2091	0.6	4
48	Position-dependent diffusion of light in disordered waveguides. <i>Physical Review Letters</i> , <b>2014</b> , 112, 023904	0.4	39
47	Artificial selection for structural color on butterfly wings and comparison with natural evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 12109-14	11.5	45

46	Finite-difference time-domain analysis on light extraction in a GaN light-emitting diode by empirically capable dielectric nano-features. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 184302	2.5	1
45	Cryptic iridescence in a fossil weevil generated by single diamond photonic crystals. <i>Journal of the Royal Society Interface</i> , <b>2014</b> , 11, 20140736	4.1	15
44	Bis(4,4'-difluoro-1,1'-biphenyl-2-yl)carboxylato-D-tetra-kis-(methanol-D)calcium methanol tetra-solvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2013</b> , 69, m122-3		
43	The fossil record of insect color illuminated by maturation experiments. <i>Geology</i> , <b>2013</b> , 41, 487-490	5	19
42	Plasmonic Enhancement of Dye-Sensitized Solar Cells Using Core-Shell Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 927-934	3.8	102
41	Frequency-domain acquisition of fourth-order correlation by spectral intensity interferometry. <i>Optics Express</i> , <b>2013</b> , 21, 23206-19	3.3	1
40	Broadband subwavelength focusing of light using a passive sink. <i>Optics Express</i> , <b>2013</b> , 21, 17435-46	3.3	25
39	Lasing in Amorphous Nanophotonic Structures. <i>Nano-optics and Nanophotonics</i> , <b>2013</b> , 227-265	0	2
38	Perfect coupling of light to surface plasmons by coherent absorption. <i>Physical Review Letters</i> , <b>2012</b> , 108, 186805	7.4	128
37	Structure and optical function of amorphous photonic nanostructures from avian feather barbs: a comparative small angle X-ray scattering (SAXS) analysis of 230 bird species. <i>Journal of the Royal Society Interface</i> , <b>2012</b> , 9, 2563-80	4.1	100
36	Geometrical structure, multifractal spectra and localized optical modes of aperiodic Vogel spirals. <i>Optics Express</i> , <b>2012</b> , 20, 3015-33	3.3	39
35	Wavelength-scale microdisks as optical gyroscopes: a finite-difference time-domain simulation study. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 1648	1.7	13
34	The original colours of fossil beetles. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 279, 1114-21	4.4	46
33	Photonic band gaps in three-dimensional network structures with short-range order. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	45
32	Time-reversed lasing and interferometric control of absorption. <i>Science</i> , <b>2011</b> , 331, 889-92	33.3	508
31	Assembly of optical-scale dumbbells into dense photonic crystals. <i>ACS Nano</i> , <b>2011</b> , 5, 6695-700	16.7	149
30	Control of lasing in biomimetic structures with short-range order. <i>Physical Review Letters</i> , <b>2011</b> , 106, 183901	7.4	65
29	Short-range order and near-field effects on optical scattering and structural coloration. <i>Optics Express</i> , <b>2011</b> , 19, 8208-17	3.3	54

28	Localized photonic band edge modes and orbital angular momenta of light in a golden-angle spiral. <i>Optics Express</i> , <b>2011</b> , 19, 23631-42	3.3	28
27	Photonic network laser. <i>Optics Letters</i> , <b>2011</b> , 36, 3560-2	3	11
26	Lasing modes in polycrystalline and amorphous photonic structures. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	8
25	Measurement and autocorrelation analysis of two-dimensional light-scattering patterns from living cells for label-free classification. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2011</b> , 79, 284-92	4.6	23
24	Lasing in Thue-Morse structures with optimized aperiodicity. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 201109	3.4	14
23	Lasing in localized modes of a slow light photonic crystal waveguide. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 241107	3.4	26
22	Fossilized biophotonic nanostructures reveal the original colors of 47-million-year-old moths. <i>PLoS Biology</i> , <b>2011</b> , 9, e1001200	9.7	34
21	Nanoscale Coherent Perfect Absorber of Light <b>2011</b> ,		1
20	Five-fold reduction of lasing threshold near the first $\Pi$ -pseudogap of ZnO inverse opals. <i>Journal of Optics (United Kingdom)</i> , <b>2010</b> , 12, 024007	1.7	4
19	Photonic-band-gap effects in two-dimensional polycrystalline and amorphous structures. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	33
18	Giant resonances near the split band edges of two-dimensional photonic crystals. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	10
17	Contribution of double scattering to structural coloration in quasicrystalline nanostructures of bird feathers. <i>Physical Review E</i> , <b>2010</b> , 81, 051923	2.4	19
16	Structure, function, and self-assembly of single network gyroid (I4132) photonic crystals in butterfly wing scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 11676-81	11.5	353
15	Demonstration of laser action in a pseudorandom medium. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 223101	3.4	18
14	Double scattering of light from Biophotonic Nanostructures with short-range order. <i>Optics Express</i> , <b>2010</b> , 18, 11942-8	3.3	34
13	Biomimetic isotropic nanostructures for structural coloration. <i>Advanced Materials</i> , <b>2010</b> , 22, 2939-44	24	277
12	How noniridescent colors are generated by quasi-ordered structures of bird feathers. <i>Advanced Materials</i> , <b>2010</b> , 22, 2871-80	24	197
11	Structural Color: How Noniridescent Colors Are Generated by Quasi-ordered Structures of Bird Feathers (Adv. Mater. 2607/2010). <i>Advanced Materials</i> , <b>2010</b> , 22, n/a-n/a	24	1

10	Radiative energy transfer in disordered photonic crystals. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 175401	1.8	4
9	Photonic bandgap engineering with inverse opal multistacks of different refractive index contrasts. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 091101	3.4	26
8	Self-assembly of amorphous biophotonic nanostructures by phase separation. <i>Soft Matter</i> , <b>2009</b> , 5, 17923.6	3.6	186
7	Photoluminescence modification by a high-order photonic band with abnormal dispersion in ZnO inverse opal. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	28
6	Coexistence of localized and delocalized surface plasmon modes in percolating metal films. <i>Physical Review Letters</i> , <b>2006</b> , 97, 206103	7.4	66
5	Surface plasmon delocalization by short-range correlations in percolating metal systems. <i>Applied Physics B: Lasers and Optics</i> , <b>2006</b> , 84, 205-210	1.9	4
4	Near-field intensity correlations in semicontinuous metal-dielectric films. <i>Physical Review Letters</i> , <b>2005</b> , 94, 226101	7.4	49
3	Random lasing in closely packed resonant scatterers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2004</b> , 21, 159	1.7	120
2	Measurement of the Zeeman-like ac Stark shift. <i>Physical Review A</i> , <b>2001</b> , 63,	2.6	19
1	2D pseudo-random and deterministic aperiodic lasers130-145		