Heeso Noh

List of Publications by Year
in descending order

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Version: 2024-02-01

86 papers	3,783 citations	201385 27 h-index	143772 57 g-index
87 all docs	87 docs citations	87 times ranked	4365 citing authors

#	Article	IF	Citations
1	Time-Reversed Lasing and Interferometric Control of Absorption. Science, 2011, 331, 889-892.	6.0	673
2	Structure, function, and self-assembly of single network gyroid (I 4 ₁ 32) photonic crystals in butterfly wing scales. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11676-11681.	3.3	428
3	Biomimetic Isotropic Nanostructures for Structural Coloration. Advanced Materials, 2010, 22, 2939-2944.	11.1	345
4	How Noniridescent Colors Are Generated by Quasiâ€ordered Structures of Bird Feathers. Advanced Materials, 2010, 22, 2871-2880.	11.1	228
5	Self-assembly of amorphous biophotonic nanostructures by phase separation. Soft Matter, 2009, 5, 1792.	1.2	222
6	Assembly of Optical-Scale Dumbbells into Dense Photonic Crystals. ACS Nano, 2011, 5, 6695-6700.	7.3	182
7	Perfect coupling of light to surface plasmons by coherent absorption. Physical Review Letters, 2012, 108, 186805.	2.9	152
8	Random lasing in closely packed resonant scatterers. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 159.	0.9	146
9	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. Journal of the Royal Society Interface, 2012, 9, 2563-2580.	1.5	127
10	Plasmonic Enhancement of Dye-Sensitized Solar Cells Using Coreâ€“Shellâ€“Shell Nanostructures. Journal of Physical Chemistry C, 2013, 117, 927-934.	1.5	117
11	Coexistence of Localized and Delocalized Surface Plasmon Modes in Percolating Metal Films. Physical Review Letters, 2006, 97, 206103.	2.9	80
12	Control of Lasing in Biomimetic Structures with Short-Range Order. Physical Review Letters, 2011, 106, 183901.	2.9	77
13	Short-range order and near-field effects on optical scattering and structural coloration. Optics Express, 2011, 19, 8208.	1.7	65
14	Artificial selection for structural color on butterfly wings and comparison with natural evolution. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12109-12114.	3.3	61
15	Photonic band gaps in three-dimensional network structures with short-range order. Physical Review A, 2011, 84, .	1.0	57
16	Geometrical structure, multifractal spectra and localized optical modes of aperiodic Vogel spirals. Optics Express, 2012, 20, 3015.	1.7	56
17	The original colours of fossil beetles. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1114-1121.	1.2	54
18	Near-Field Intensity Correlations in Semicontinuous Metal-Dielectric Films. Physical Review Letters, 2005, 94, 226101.	2.9	52

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19	Position-Dependent Diffusion of Light in Disordered Waveguides. Physical Review Letters, 2014, 112, 023904.	2.9	51
20	Fossilized Biophotonic Nanostructures Reveal the Original Colors of 47-Million-Year-Old Moths. PLoS Biology, 2011, 9, e1001200.	2.6	47
21	Photonic-band-gap effects in two-dimensional polycrystalline and amorphous structures. Physical Review A, 2010, 82, .	1.0	43
22	Localized photonic band edge modes and orbital angular momenta of light in a golden-angle spiral. Optics Express, 2011, 19, 23631.	1.7	41
23	Double scattering of light from Biophotonic Nanostructures with short-range order. Optics Express, 2010, 18, 11942.	1.7	39
24	Lasing in localized modes of a slow light photonic crystal waveguide. Applied Physics Letters, 2011, 98, 241107.	1.5	32
25	Photonic bandgap engineering with inverse opal multistacks of different refractive index contrasts. Applied Physics Letters, 2009, 95, 091101.	1.5	31
26	Photoluminescence modification by a high-order photonic band with abnormal dispersion in ZnO inverse opal. Physical Review B, 2008, 77, .	1.1	29
27	Broadband subwavelength focusing of light using a passive sink. Optics Express, 2013, 21, 17435.	1.7	28
28	Measurement and autocorrelation analysis of twoâ€dimensional lightâ€scattering patterns from living cells for labelâ€free classification. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2011, 79A, 284-292.	1.1	26
29	Compact, Highâ€resolution Inverseâ€Designed Onâ€Chip Spectrometer Based on Tailored Disorder Modes. Laser and Photonics Reviews, 2021, 15, 2000556.	4.4	25
30	Measurement of the Zeeman-like ac Stark shift. Physical Review A, 2001, 63, .	1.0	23
31	Contribution of double scattering to structural coloration in quasiordered nanostructures of bird feathers. Physical Review E, 2010, 81, 051923.	0.8	23
32	Demonstration of laser action in a pseudorandom medium. Applied Physics Letters, 2010, 97, .	1.5	23
33	The fossil record of insect color illuminated by maturation experiments. Geology, 2013, 41, 487-490.	2.0	22
34	Lasing in Thueâ€“Morse structures with optimized aperiodicity. Applied Physics Letters, 2011, 98, .	1.5	20
35	Wavelength-scale microdisks as optical gyroscopes: a finite-difference time-domain simulation study. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1648.	0.9	18
36	Cryptic iridescence in a fossil weevil generated by single diamond photonic crystals. Journal of the Royal Society Interface, 2014, 11, 20140736.	1.5	16

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37	Giant resonances near the split band edges of two-dimensional photonic crystals. Physical Review A, 2010, 82, .	1.0	14
38	Photonic network laser. Optics Letters, 2011, 36, 3560.	1.7	13
39	Mass Fabrication of 3D Silicon Nanoâ€/Microstructures by Fabâ€Free Process Using Tipâ€Based Lithography. Small, 2021, 17, e2005036.	5.2	13
40	Lasing modes in polycrystalline and amorphous photonic structures. Physical Review A, 2011, 84, .	1.0	11
41	Bioâ€Photonic Waveguide of a DNAâ€Hybrid Semiconductor Prismatic Hexagon. Advanced Materials, 2020, 32, e2005238.	11.1	11
42	Fabrication of diffraction gratings by top-down and bottom-up approaches based on scanning probe lithography. Nanoscale, 2019, 11, 2326-2334.	2.8	9
43	Polycrystalline Au Nanomembrane as a Tool for Two-Tone Micro/Nanolithography. Chemistry of Materials, 2017, 29, 3863-3872.	3.2	7
44	Five-fold reduction of lasing threshold near the first Î“L-pseudogap of ZnO inverse opals. Journal of Optics (United Kingdom), 2010, 12, 024007.	1.0	6
45	Radiative energy transfer in disordered photonic crystals. Journal of Physics Condensed Matter, 2009, 21, 175401.	0.7	5
46	Investigation of the polarization-dependent optical force in optical tweezers by using generalized Lorenz-Mie theory. Journal of the Korean Physical Society, 2015, 67, 2086-2091.	0.3	5
47	Effect of Wavelength-Scale Cu₂O Particles on the Performance of Photocathodes for Solar Water Splitting. Journal of Physical Chemistry C, 2019, 123, 24846-24854.	1.5	5
48	Surface plasmon delocalization by short-range correlations in percolating metal systems. Applied Physics B: Lasers and Optics, 2006, 84, 205-210.	1.1	4
49	Investigation of a broadband coherent perfect absorber in a multi-layer structure by using the transfer matrix method. Journal of the Korean Physical Society, 2018, 72, 66-70.	0.3	4
50	Enhanced absorption by coherent control in a photonic crystal resonator coupled with a microfiber. Optics Letters, 2018, 43, 5532.	1.7	4
51	Structural Color: How Noniridescent Colors Are Generated by Quasi-ordered Structures of Bird Feathers (Adv. Mater. 26-27/2010). Advanced Materials, 2010, 22, n/a-n/a.	11.1	3
52	Unidirectional incident wave for an electromagnetic wave simulation using the finite element method. Journal of the Korean Physical Society, 2021, 78, 587-593.	0.3	2
53	Lasing in Amorphous Nanophotonic Structures. Nano-optics and Nanophotonics, 2013, , 227-265.	0.2	2
54	Localized photonic band edge modes and orbital angular momenta of light in a golden-angle spiral. , 2012, , .		1

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55	Frequency-domain acquisition of fourth-order correlation by spectral intensity interferometry. Optics Express, 2013, 21, 23206.	1.7	1
56	Finite-difference time-domain analysis on light extraction in a GaN light-emitting diode by empirically capable dielectric nano-features. Journal of Applied Physics, 2014, 116, 184302.	1.1	1
57	Lasing in an optimized deterministic aperiodic nanobeam cavity. Applied Physics Letters, 2016, 109, 241106.	1.5	1
58	Nanoscale Coherent Perfect Absorber of Light. , 2011, , .		1
59	Single-Port Coherent Perfect Loss in a Photonic Crystal Nanobeam Resonator. Nanomaterials, 2021, 11, 3457.	1.9	1
60	Extraordinary localization of collective electronic states in random media. , 2006, 6320, 175.		0
61	Emission spectroscopy of ZnO inverse opal photonic crystals. , 2007, , .		0
62	Demonstration of laser action in a pseudo-random medium. , 2010, , .		0
63	Photonic Band Gap in 3D Network Structures with Short-range Order. , 2011, , .		0
64	Bis(4,4â€²â€²-difluoro-1,1â€²:3â€²,1â€²â€²-terphenyl-2â€²-carboxylato-Î²O)tetrakis(methanol-Î²O)calcium methanol tetrasolvate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, m122-m123.	0.2	0
65	Color Production by Isotropic Nanostructures with Short-range Order in Bird Feather Barbs. , 2013, , .		0
66	Position Dependent Diffusion of Light in Disordered Waveguides. , 2013, , .		0
67	2D pseudo-random and deterministic aperiodic lasers. , 0, , 130-145.		0
68	Control of the oscillation threshold with asymmetric gain in operational amplifiers. Journal of the Korean Physical Society, 2016, 68, 752-755.	0.3	0
69	Image Scanning Method for Vascular Pattern Recognition. Journal of the Korean Physical Society, 2019, 75, 218-222.	0.3	0
70	Linear Fresnel Lens for a Solar Cell with above 85% Focal Efficiency. Journal of the Korean Physical Society, 2020, 76, 722-726.	0.3	0
71	Intense and Directional Emission from Three-Dimensional Photonic Crystal. , 2007, , .		0
72	Intense and Directional Emission from Three-Dimensional Photonic Crystal. , 2007, , .		0

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73	Study of Angle Dependent Reflection From a 3D Quasi-Ordered Photonic Crystal. , 2008, , .		0
74	Observation of Two-Port Coherent Perfect Absorber. , 2010, , .		0
75	Double Scattering of Light from Biophotonic Nanostructures with Short-Range Order. , 2010, , .		0
76	Photonic Band-Gap Evolution from Polycrystalline to Amorphous Photonic Structures. , 2010, , .		0
77	Lasing in Amorphous Photonic Structures. , 2010, , .		0
78	Time-reversed Lasing and Control of Absorption in a Two-channel Coherent Perfect Absorber. , 2011, , .		0
79	Photonic Network Laser. , 2011, , .		0
80	Bio-Inspired Photonic Nanostructures and Lasers. , 2011, , .		0
81	Lasing modes in polycrystalline and amorphous structures. , 2012, , .		0
82	Lasing in Thue-Morse structure with optimal aperiodicity. , 2012, , .		0
83	Ultrasmall Optical Gyroscopes Based on Microdisk Lasers. , 2012, , .		0
84	Artificial Selection for Structural Color on Butterfly Wings and Comparison to Natural Evolution. , 2014, , .		0
85	Investigation of the Highly-Sensitive Critical Mode in the Ulam Spiral Photonic Structure. New Physics: Sae Mulli, 2016, 66, 781-785.	0.0	0
86	One-Way Zero Reflection in an Insulator-Metal-Insulator Structure Using the Transfer Matrix Method. Photonics, 2021, 8, 8.	0.9	0