Inki Kim

List of Publications by Year
in descending order

65	2,943	136885	168321
papers	citations	32 h-index	53 g-index

68	68	68	1576
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanophotonics for light detection and ranging technology. Nature Nanotechnology, 2021, 16, 508-524.	15.6	213
2	Pixelated bifunctional metasurface-driven dynamic vectorial holographic color prints for photonic security platform. Nature Communications, 2021, 12, 3614.	5.8	176
3	Dielectric Meta-Holograms Enabled with Dual Magnetic Resonances in Visible Light. ACS Nano, 2017, 11, 9382-9389.	7.3	157
4	Holographic metasurface gas sensors for instantaneous visual alarms. Science Advances, 2021, 7, .	4.7	149
5	Outfitting Next Generation Displays with Optical Metasurfaces. ACS Photonics, 2018, 5, 3876-3895.	3.2	118
6	Stimuliâ€Responsive Dynamic Metaholographic Displays with Designer Liquid Crystal Modulators. Advanced Materials, 2020, 32, e2004664.	11.1	116
7	Full-space Cloud of Random Points with a Scrambling Metasurface. Light: Science and Applications, 2018, 7, 63.	7.7	112
8	Polarisation insensitive multifunctional metasurfaces based on all-dielectric nanowaveguides. Nanoscale, 2018, 10, 18323-18330.	2.8	98
9	Tungsten-based Ultrathin Absorber for Visible Regime. Scientific Reports, 2018, 8, 2443.	1.6	96
10	A Spinâ€Encoded Allâ€Dielectric Metahologram for Visible Light. Laser and Photonics Reviews, 2019, 13, 1900065.	4.4	95
11	Electrically Tunable Bifocal Metalens with Diffractionâ€Limited Focusing and Imaging at Visible Wavelengths. Advanced Science, 2021, 8, e2102646.	5.6	89
12	Thermally robust ring-shaped chromium perfect absorber of visible light. Nanophotonics, 2018, 7, 1827-1833.	2.9	88
13	Optical spin-symmetry breaking for high-efficiency directional helicity-multiplexed metaholograms. Microsystems and Nanoengineering, 2021, 7, 5.	3.4	81
14	Liquid crystal-powered Mie resonators for electrically tunable photorealistic color gradients and dark blacks. Light: Science and Applications, 2022, 11, 118.	7.7	73
15	Giant chiro-optical responses in multipolar-resonances-based single-layer dielectric metasurfaces. Photonics Research, 2021, 9, 1667.	3.4	71
16	Nanostructured chromium-based broadband absorbers and emitters to realize thermally stable solar thermophotovoltaic systems. Nanoscale, 2022, 14, 6425-6436.	2.8	69
17	Engineering spin and antiferromagnetic resonances to realize an efficient direction-multiplexed visible meta-hologram. Nanoscale Horizons, 2020, 5, 57-64.	4.1	68
18	Challenges in fabrication towards realization of practical metamaterials. Microelectronic Engineering, 2016, 163, 7-20.	1.1	66

#	Article	IF	Citations
19	Novel Spinâ€Decoupling Strategy in Liquid Crystalâ€Integrated Metasurfaces for Interactive Metadisplays. Advanced Optical Materials, 2022, 10, .	3.6	65
20	Fabrication of three-dimensional suspended, interlayered and hierarchical nanostructures by accuracy-improved electron beam lithography overlay. Scientific Reports, 2017, 7, 6668.	1.6	61
21	Twisted non-diffracting beams through all dielectric meta-axicons. Nanoscale, 2019, 11, 20571-20578.	2.8	57
22	Biomimetic ultra-broadband perfect absorbers optimised with reinforcement learning. Physical Chemistry Chemical Physics, 2020, 22, 2337-2342.	1.3	56
23	Geometric and physical configurations of metaâ€atoms for advanced metasurface holography. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 739-754.	8.5	56
24	A Broadband Optical Diode for Linearly Polarized Light Using Symmetryâ€Breaking Metamaterials. Advanced Optical Materials, 2017, 5, 1700600.	3.6	52
25	Single-Step Fabricable Flexible Metadisplays for Sensitive Chemical/Biomedical Packaging Security and Beyond. ACS Applied Materials & Interfaces, 2022, 14, 31194-31202.	4.0	52
26	Structural color switching with a doped indium-gallium-zinc-oxide semiconductor. Photonics Research, 2020, 8, 1409.	3.4	46
27	Active Color Control in a Metasurface by Polarization Rotation. Applied Sciences (Switzerland), 2018, 8, 982.	1.3	42
28	Moth-eye shaped on-demand broadband and switchable perfect absorbers based on vanadium dioxide. Scientific Reports, 2020, 10, 4522.	1.6	40
29	Dualâ€Band Operating Metaholograms with Heterogeneous Metaâ€Atoms in the Visible and Nearâ€Infrared. Advanced Optical Materials, 2021, 9, 2100609.	3.6	40
30	Chiroptical Metasurfaces: Principles, Classification, and Applications. Sensors, 2021, 21, 4381.	2.1	40
31	Manifesting Simultaneous Optical Spin Conservation and Spin Isolation in Diatomic Metasurfaces. Advanced Optical Materials, 2021, 9, 2002002.	3.6	39
32	Planar Achiral Metasurfaces-Induced Anomalous Chiroptical Effect of Optical Spin Isolation. ACS Applied Materials & Interfaces, 2020, 12, 48899-48909.	4.0	35
33	Capillary-force-induced collapse lithography for controlled plasmonic nanogap structures. Microsystems and Nanoengineering, 2020, 6, 65.	3.4	34
34	Top-down nanofabrication approaches toward single-digit-nanometer scale structures. Journal of Mechanical Science and Technology, 2021, 35, 837-859.	0.7	33
35	Cascade domino lithography for extreme photon squeezing. Materials Today, 2020, 39, 89-97.	8.3	29
36	Emerging advanced metasurfaces: Alternatives to conventional bulk optical devices. Microelectronic Engineering, 2020, 220, 111146.	1.1	28

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37	Reconfigurable all-dielectric Fano metasurfaces for strong full-space intensity modulation of visible light. Nanoscale Horizons, 2020, 5, 1088-1095.	4.1	27
38	Photonic spin Hall effect by the spin-orbit interaction in a metasurface with elliptical nano-structures. Applied Physics Letters, 2017, 110, .	1.5	23
39	Inducing and Probing Localized Excitons in Atomically Thin Semiconductors via Tipâ€Enhanced Cavityâ€Spectroscopy. Advanced Functional Materials, 2021, 31, 2102893.	7.8	22
40	Experimental verification of asymmetric transmission in continuous omega-shaped metamaterials. RSC Advances, 2018, 8, 38556-38561.	1.7	21
41	Nanocatalosomes as Plasmonic Bilayer Shells with Interlayer Catalytic Nanospaces for Solarâ€Lightâ€Induced Reactions. Angewandte Chemie - International Edition, 2020, 59, 9460-9469.	7.2	14
42	Nanophotonic modal dichroism: mode-multiplexed modulators. Optics Letters, 2016, 41, 4394.	1.7	13
43	Highly Efficient Visible Hologram through Dielectric Metasurface. Journal of Physics: Conference Series, 2018, 1092, 012003.	0.3	9
44	A Pragmatic Metasurface with Asymmetric Spin Interactions. , 2020, , .		9
45	Demonstration of a Hyperlens-integrated Microscope and Super-resolution Imaging. Journal of Visualized Experiments, 2017, , .	0.2	8
46	Plasmonic metasurface cavity for simultaneous enhancement of optical electric and magnetic fields in deep subwavelength volume. Optics Express, 2018, 26, 13340.	1.7	8
47	High Refractive Index Ti 3 O 5 Films for Dielectric Metasurfaces. Chinese Physics Letters, 2017, 34, 088102.	1.3	7
48	Optical characterizations and thermal analyses of HfO₂/SiO₂ multilayered diffraction gratings for high-power continuous wave laser. JPhys Photonics, 2020, 2, 025004.	2.2	7
49	Micron-scale light structuring via flat nanodevices. , 2018, , .		5
50	Realizing Spin-Conserved and Spin-Encrypted Hologram using Multipolar-modulated Meta-platform. Journal of Physics: Conference Series, 2021, 2015, 012060.	0.3	5
51	Metaâ€Holographic Displays: Stimuliâ€Responsive Dynamic Metaholographic Displays with Designer Liquid Crystal Modulators (Adv. Mater. 50/2020). Advanced Materials, 2020, 32, 2070378.	11.1	4
52	Helicity-Multiplexed Hologram via All-dielectric Metasurface in the Visible Domain. , 2019, , .		4
53	The role of current loop in harmonic generation from magnetic metamaterials in two polarizations. Optics Communications, 2017, 401, 66-70.	1.0	3
54	A Single-Layer Dielectric Metasurface Enabling Wave Incidence Direction Control. , 2019, , .		3

#	Article	IF	Citations
55	Light Manipulation at Compact Scale via allâ€“Dielectric Metasurfaces. , 2018, , .		2
56	Ultra-Broadband Tungsten Absorber. , 2018, , .		1
57	Nanocatalosomes as Plasmonic Bilayer Shells with Interlayer Catalytic Nanospaces for Solarâ€Lightâ€Induced Reactions. Angewandte Chemie, 2020, 132, 9547-9556.	1.6	1
58	Realization of Artificial Chirality in Micro-/Nano-Scale Three-Dimensional Plasmonic Structures. Topics in Applied Physics, 2021, , 241-263.	0.4	1
59	Inducing and Probing Localized Excitons in Atomically Thin Semiconductors via Tipâ€Enhanced Cavityâ€Spectroscopy (Adv. Funct. Mater. 33/2021). Advanced Functional Materials, 2021, 31, 2170243.	7.8	1
60	Demonstration of Spin-Multiplexed and Direction-Multiplexed All-Dielectric Visible Metaholograms. Journal of Visualized Experiments, 2020, , .	0.2	1
61	Towards 3D metamaterials at optical frequencies. , 2016, , .		0
62	Titelbild: Nanocatalosomes as Plasmonic Bilayer Shells with Interlayer Catalytic Nanospaces for Solarâ€Lightâ€Induced Reactions (Angew. Chem. 24/2020). Angewandte Chemie, 2020, 132, 9281-9281.	1.6	0
63	Dualâ€Band Operating Metaholograms with Heterogeneous Metaâ€Atoms in the Visible and Nearâ€Infrared (Advanced Optical Materials 19/2021). Advanced Optical Materials, 2021, 9, 2170075.	3.6	0
64	Dynamic Flat Optical Devices Realized by Doped Semiconductors and Functional Liquid Crystals. , 2021, , .		0
65	Nanofabrication of Plasmonic Structures. , 2022, , 85-134.		0