

Inki Kim

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,943
citations

136885

32
h-index

168321

53
g-index

68
all docs

68
docs citations

68
times ranked

1576
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured chromium-based broadband absorbers and emitters to realize thermally stable solar thermophotovoltaic systems. <i>Nanoscale</i> , 2022, 14, 6425-6436.	2.8	69
2	Nanofabrication of Plasmonic Structures. , 2022, , 85-134.		0
3	Liquid crystal-powered Mie resonators for electrically tunable photorealistic color gradients and dark blacks. <i>Light: Science and Applications</i> , 2022, 11, 118.	7.7	73
4	Novel Spinâ€Decoupling Strategy in Liquid Crystalâ€Integrated Metasurfaces for Interactive Metadisplays. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	65
5	Single-Step Fabricable Flexible Metadisplays for Sensitive Chemical/Biomedical Packaging Security and Beyond. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 31194-31202.	4.0	52
6	Realization of Artificial Chirality in Micro-/Nano-Scale Three-Dimensional Plasmonic Structures. <i>Topics in Applied Physics</i> , 2021, , 241-263.	0.4	1
7	Manifesting Simultaneous Optical Spin Conservation and Spin Isolation in Diatomic Metasurfaces. <i>Advanced Optical Materials</i> , 2021, 9, 2002002.	3.6	39
8	Top-down nanofabrication approaches toward single-digit-nanometer scale structures. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 837-859.	0.7	33
9	Optical spin-symmetry breaking for high-efficiency directional helicity-multiplexed metaholograms. <i>Microsystems and Nanoengineering</i> , 2021, 7, 5.	3.4	81
10	Holographic metasurface gas sensors for instantaneous visual alarms. <i>Science Advances</i> , 2021, 7, .	4.7	149
11	Nanophotonics for light detection and ranging technology. <i>Nature Nanotechnology</i> , 2021, 16, 508-524.	15.6	213
12	Geometric and physical configurations of metaâ€atoms for advanced metasurface holography. <i>InformaÃnÃ-MateriÃly</i> , 2021, 3, 739-754.	8.5	56
13	Inducing and Probing Localized Excitons in Atomically Thin Semiconductors via Tipâ€Enhanced Cavityâ€Spectroscopy. <i>Advanced Functional Materials</i> , 2021, 31, 2102893.	7.8	22
14	Dualâ€Band Operating Metaholograms with Heterogeneous Metaâ€Atoms in the Visible and Nearâ€Infrared. <i>Advanced Optical Materials</i> , 2021, 9, 2100609.	3.6	40
15	Pixelated bifunctional metasurface-driven dynamic vectorial holographic color prints for photonic security platform. <i>Nature Communications</i> , 2021, 12, 3614.	5.8	176
16	Chiroptical Metasurfaces: Principles, Classification, and Applications. <i>Sensors</i> , 2021, 21, 4381.	2.1	40
17	Giant chiro-optical responses in multipolar-resonances-based single-layer dielectric metasurfaces. <i>Photonics Research</i> , 2021, 9, 1667.	3.4	71
18	Inducing and Probing Localized Excitons in Atomically Thin Semiconductors via Tipâ€Enhanced Cavityâ€Spectroscopy (Adv. Funct. Mater. 33/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170243.	7.8	1

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19	Electrically Tunable Bifocal Metalens with Diffraction-Limited Focusing and Imaging at Visible Wavelengths. <i>Advanced Science</i> , 2021, 8, e2102646.	5.6	89
20	Dual-Band Operating Metaholograms with Heterogeneous Meta-Atoms in the Visible and Near-Infrared (Advanced Optical Materials 19/2021). <i>Advanced Optical Materials</i> , 2021, 9, 2170075.	3.6	0
21	Realizing Spin-Conserved and Spin-Encrypted Hologram using Multipolar-modulated Meta-platform. <i>Journal of Physics: Conference Series</i> , 2021, 2015, 012060.	0.3	5
22	Dynamic Flat Optical Devices Realized by Doped Semiconductors and Functional Liquid Crystals. , 2021, , .		0
23	Engineering spin and antiferromagnetic resonances to realize an efficient direction-multiplexed visible meta-hologram. <i>Nanoscale Horizons</i> , 2020, 5, 57-64.	4.1	68
24	Emerging advanced metasurfaces: Alternatives to conventional bulk optical devices. <i>Microelectronic Engineering</i> , 2020, 220, 111146.	1.1	28
25	Biomimetic ultra-broadband perfect absorbers optimised with reinforcement learning. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2337-2342.	1.3	56
26	Capillary-force-induced collapse lithography for controlled plasmonic nanogap structures. <i>Microsystems and Nanoengineering</i> , 2020, 6, 65.	3.4	34
27	Cascade domino lithography for extreme photon squeezing. <i>Materials Today</i> , 2020, 39, 89-97.	8.3	29
28	Meta-Holographic Displays: Stimuli-Responsive Dynamic Metaholographic Displays with Designer Liquid Crystal Modulators (<i>Adv. Mater.</i> 50/2020). <i>Advanced Materials</i> , 2020, 32, 2070378.	11.1	4
29	Stimuli-Responsive Dynamic Metaholographic Displays with Designer Liquid Crystal Modulators. <i>Advanced Materials</i> , 2020, 32, e2004664.	11.1	116
30	Titelbild: Nanocatalosomes as Plasmonic Bilayer Shells with Interlayer Catalytic Nanospaces for Solar-Light-Induced Reactions (<i>Angew. Chem.</i> 24/2020). <i>Angewandte Chemie</i> , 2020, 132, 9281-9281.	1.6	0
31	Moth-eye shaped on-demand broadband and switchable perfect absorbers based on vanadium dioxide. <i>Scientific Reports</i> , 2020, 10, 4522.	1.6	40
32	Reconfigurable all-dielectric Fano metasurfaces for strong full-space intensity modulation of visible light. <i>Nanoscale Horizons</i> , 2020, 5, 1088-1095.	4.1	27
33	Optical characterizations and thermal analyses of HfO ₂ /SiO ₂ multilayered diffraction gratings for high-power continuous wave laser. <i>JPhys Photonics</i> , 2020, 2, 025004.	2.2	7
34	Nanocatalosomes as Plasmonic Bilayer Shells with Interlayer Catalytic Nanospaces for Solar-Light-Induced Reactions. <i>Angewandte Chemie</i> , 2020, 132, 9547-9556.	1.6	1
35	Nanocatalosomes as Plasmonic Bilayer Shells with Interlayer Catalytic Nanospaces for Solar-Light-Induced Reactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9460-9469.	7.2	14
36	Planar Achiral Metasurfaces-Induced Anomalous Chiroptical Effect of Optical Spin Isolation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48899-48909.	4.0	35

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37	Structural color switching with a doped indium-gallium-zinc-oxide semiconductor. Photonics Research, 2020, 8, 1409.	3.4	46
38	A Pragmatic Metasurface with Asymmetric Spin Interactions. , 2020, , .		9
39	Demonstration of Spin-Multiplexed and Direction-Multiplexed All-Dielectric Visible Metaholograms. Journal of Visualized Experiments, 2020, , .	0.2	1
40	A Spin-Encoded All-Dielectric Metahologram for Visible Light. Laser and Photonics Reviews, 2019, 13, 1900065.	4.4	95
41	Twisted non-diffracting beams through all dielectric meta-axicons. Nanoscale, 2019, 11, 20571-20578.	2.8	57
42	A Single-Layer Dielectric Metasurface Enabling Wave Incidence Direction Control. , 2019, , .		3
43	Helicity-Multiplexed Hologram via All-dielectric Metasurface in the Visible Domain. , 2019, , .		4
44	Tungsten-based Ultrathin Absorber for Visible Regime. Scientific Reports, 2018, 8, 2443.	1.6	96
45	Ultra-Broadband Tungsten Absorber. , 2018, , .		1
46	Experimental verification of asymmetric transmission in continuous omega-shaped metamaterials. RSC Advances, 2018, 8, 38556-38561.	1.7	21
47	Light Manipulation at Compact Scale via All-Dielectric Metasurfaces. , 2018, , .		2
48	Thermally robust ring-shaped chromium perfect absorber of visible light. Nanophotonics, 2018, 7, 1827-1833.	2.9	88
49	Highly Efficient Visible Hologram through Dielectric Metasurface. Journal of Physics: Conference Series, 2018, 1092, 012003.	0.3	9
50	Full-space Cloud of Random Points with a Scrambling Metasurface. Light: Science and Applications, 2018, 7, 63.	7.7	112
51	Outfitting Next Generation Displays with Optical Metasurfaces. ACS Photonics, 2018, 5, 3876-3895.	3.2	118
52	Polarisation insensitive multifunctional metasurfaces based on all-dielectric nanowaveguides. Nanoscale, 2018, 10, 18323-18330.	2.8	98
53	Plasmonic metasurface cavity for simultaneous enhancement of optical electric and magnetic fields in deep subwavelength volume. Optics Express, 2018, 26, 13340.	1.7	8
54	Active Color Control in a Metasurface by Polarization Rotation. Applied Sciences (Switzerland), 2018, 8, 982.	1.3	42

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55	Micron-scale light structuring via flat nanodevices. , 2018, , .		5
56	Photonic spin Hall effect by the spin-orbit interaction in a metasurface with elliptical nano-structures. Applied Physics Letters, 2017, 110, .	1.5	23
57	The role of current loop in harmonic generation from magnetic metamaterials in two polarizations. Optics Communications, 2017, 401, 66-70.	1.0	3
58	Demonstration of a Hyperlens-integrated Microscope and Super-resolution Imaging. Journal of Visualized Experiments, 2017, , .	0.2	8
59	Dielectric Meta-Holograms Enabled with Dual Magnetic Resonances in Visible Light. ACS Nano, 2017, 11, 9382-9389.	7.3	157
60	Fabrication of three-dimensional suspended, interlayered and hierarchical nanostructures by accuracy-improved electron beam lithography overlay. Scientific Reports, 2017, 7, 6668.	1.6	61
61	A Broadband Optical Diode for Linearly Polarized Light Using Symmetryâ€Breaking Metamaterials. Advanced Optical Materials, 2017, 5, 1700600.	3.6	52
62	High Refractive Index Ti 3 O 5 Films for Dielectric Metasurfaces. Chinese Physics Letters, 2017, 34, 088102.	1.3	7
63	Nanophotonic modal dichroism: mode-multiplexed modulators. Optics Letters, 2016, 41, 4394.	1.7	13
64	Challenges in fabrication towards realization of practical metamaterials. Microelectronic Engineering, 2016, 163, 7-20.	1.1	66
65	Towards 3D metamaterials at optical frequencies. , 2016, , .		0