

Junsuk Rho

List of Publications by Year in descending order

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Version: 2024-02-01

263
papers

14,422
citations

19655

61
h-index

24254

110
g-index

270
all docs

270
docs citations

270
times ranked

9153
citing authors

#	ARTICLE	IF	CITATIONS
1	Photonic Spin Hall Effect at Metasurfaces. <i>Science</i> , 2013, 339, 1405-1407.	12.6	1,026
2	Amino-acid- and peptide-directed synthesis of chiral plasmonic gold nanoparticles. <i>Nature</i> , 2018, 556, 360-365.	27.8	785
3	Photoinduced handedness switching in terahertz chiral metamolecules. <i>Nature Communications</i> , 2012, 3, 942.	12.8	407
4	Complex-amplitude metasurface-based orbital angular momentum holography in momentum space. <i>Nature Nanotechnology</i> , 2020, 15, 948-955.	31.5	386
5	Spherical hyperlens for two-dimensional sub-diffractive imaging at visible frequencies. <i>Nature Communications</i> , 2010, 1, 143.	12.8	366
6	Experimental realization of three-dimensional indefinite cavities at the nanoscale with anomalous scaling laws. <i>Nature Photonics</i> , 2012, 6, 450-454.	31.4	316
7	Complete amplitude and phase control of light using broadband holographic metasurfaces. <i>Nanoscale</i> , 2018, 10, 4237-4245.	5.6	299
8	Deep learning enabled inverse design in nanophotonics. <i>Nanophotonics</i> , 2020, 9, 1041-1057.	6.0	295
9	Recent advances in 2D, 3D and higher-order topological photonics. <i>Light: Science and Applications</i> , 2020, 9, 130.	16.6	254
10	Predicting nonlinear properties of metamaterials from the linear response. <i>Nature Materials</i> , 2015, 14, 379-383.	27.5	243
11	Electromagnetic chirality: from fundamentals to nontraditional chiroptical phenomena. <i>Light: Science and Applications</i> , 2020, 9, 139.	16.6	231
12	Nanophotonics for light detection and ranging technology. <i>Nature Nanotechnology</i> , 2021, 16, 508-524.	31.5	213
13	Hyperbolic metamaterials: fusing artificial structures to natural 2D materials. <i>ELight</i> , 2022, 2, .	23.9	190
14	Simultaneous Inverse Design of Materials and Structures via Deep Learning: Demonstration of Dipole Resonance Engineering Using Core-Shell Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24264-24268.	8.0	183
15	Pixelated bifunctional metasurface-driven dynamic vectorial holographic color prints for photonic security platform. <i>Nature Communications</i> , 2021, 12, 3614.	12.8	176
16	Designing nanophotonic structures using conditional deep convolutional generative adversarial networks. <i>Nanophotonics</i> , 2019, 8, 1255-1261.	6.0	175
17	Single-step manufacturing of hierarchical dielectric metalens in the visible. <i>Nature Communications</i> , 2020, 11, 2268.	12.8	172
18	Plasmonic- and dielectric-based structural coloring: from fundamentals to practical applications. <i>Nano Convergence</i> , 2018, 5, 1.	12.1	170

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19	Maskless Plasmonic Lithography at 22-nm Resolution. <i>Scientific Reports</i> , 2011, 1, 175.	3.3	158
20	Dielectric Meta-Holograms Enabled with Dual Magnetic Resonances in Visible Light. <i>ACS Nano</i> , 2017, 11, 9382-9389.	14.6	157
21	Holographic metasurface gas sensors for instantaneous visual alarms. <i>Science Advances</i> , 2021, 7, .	10.3	149
22	Cysteine-encoded chirality evolution in plasmonic rhombic dodecahedral gold nanoparticles. <i>Nature Communications</i> , 2020, 11, 263.	12.8	145
23	“Crypto-Display” in Dual-Mode Metasurfaces by Simultaneous Control of Phase and Spectral Responses. <i>ACS Nano</i> , 2018, 12, 6421-6428.	14.6	130
24	Metasurface-Driven Optically Variable Devices. <i>Chemical Reviews</i> , 2021, 121, 13013-13050.	47.7	125
25	Metasurfaces Based on Phase-Change Material as a Reconfigurable Platform for Multifunctional Devices. <i>Materials</i> , 2017, 10, 1046.	2.9	122
26	Outfitting Next Generation Displays with Optical Metasurfaces. <i>ACS Photonics</i> , 2018, 5, 3876-3895.	6.6	118
27	Stimuli-Responsive Dynamic Metaholographic Displays with Designer Liquid Crystal Modulators. <i>Advanced Materials</i> , 2020, 32, e2004664.	21.0	116
28	Finding the optical properties of plasmonic structures by image processing using a combination of convolutional neural networks and recurrent neural networks. <i>Microsystems and Nanoengineering</i> , 2019, 5, 27.	7.0	115
29	Sub-ambient daytime radiative cooling by silica-coated porous anodic aluminum oxide. <i>Nano Energy</i> , 2021, 79, 105426.	16.0	113
30	Full-space Cloud of Random Points with a Scrambling Metasurface. <i>Light: Science and Applications</i> , 2018, 7, 63.	16.6	112
31	Optimisation of colour generation from dielectric nanostructures using reinforcement learning. <i>Optics Express</i> , 2019, 27, 5874.	3.4	112
32	Tunable metasurfaces towards versatile metalenses and metaholograms: a review. <i>Advanced Photonics</i> , 2022, 4, .	11.8	108
33	Optical toroidal dipolar response by an asymmetric double-bar metamaterial. <i>Applied Physics Letters</i> , 2012, 101, 144105.	3.3	107
34	Smart SERS Hot Spots: Single Molecules Can Be Positioned in a Plasmonic Nanojunction Using Host-Guest Chemistry. <i>Journal of the American Chemical Society</i> , 2018, 140, 4705-4711.	13.7	102
35	Polarisation insensitive multifunctional metasurfaces based on all-dielectric nanowaveguides. <i>Nanoscale</i> , 2018, 10, 18323-18330.	5.6	98
36	Spectral Modulation through the Hybridization of Mie-Scatterers and Quasi-Guided Mode Resonances: Realizing Full and Gradients of Structural Color. <i>ACS Nano</i> , 2020, 14, 15317-15326.	14.6	98

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37	Tungsten-based Ultrathin Absorber for Visible Regime. Scientific Reports, 2018, 8, 2443.	3.3	96
38	Observation of Enhanced Optical Spin Hall Effect in a Vertical Hyperbolic Metamaterial. ACS Photonics, 2019, 6, 2530-2536.	6.6	96
39	A Spin-Encoded All-Dielectric Metahologram for Visible Light. Laser and Photonics Reviews, 2019, 13, 1900065.	8.7	95
40	Optical and acoustic metamaterials: superlens, negative refractive index and invisibility cloak. Journal of Optics (United Kingdom), 2017, 19, 084007.	2.2	94
41	Electrically Tunable Bifocal Metalens with Diffraction-Limited Focusing and Imaging at Visible Wavelengths. Advanced Science, 2021, 8, e2102646.	11.2	89
42	Printable Nanocomposite Metalens for High-Contrast Near-Infrared Imaging. ACS Nano, 2021, 15, 698-706.	14.6	89
43	Thermally robust ring-shaped chromium perfect absorber of visible light. Nanophotonics, 2018, 7, 1827-1833.	6.0	88
44	Pragmatic Metasurface Hologram at Visible Wavelength: The Balance between Diffraction Efficiency and Fabrication Compatibility. ACS Photonics, 2018, 5, 1643-1647.	6.6	87
45	Photonic Encryption Platform via Dual-Band Vectorial Metaholograms in the Ultraviolet and Visible. ACS Nano, 2022, 16, 3546-3553.	14.6	87
46	Three-dimensional nanoprinting via charged aerosol jets. Nature, 2021, 592, 54-59.	27.8	86
47	Metamaterial-Based Radiative Cooling: Towards Energy-Free All-Day Cooling. Energies, 2019, 12, 89.	3.1	85
48	Self-Powered Humidity Sensor Using Chitosan-Based Plasmonic Metal-Hydrogel Metal Filters. Advanced Optical Materials, 2020, 8, 1901932.	7.3	85
49	Ultrafast acousto-plasmonic control and sensing in complex nanostructures. Nature Communications, 2014, 5, 4042.	12.8	84
50	Optical spin-symmetry breaking for high-efficiency directional helicity-multiplexed metaholograms. Microsystems and Nanoengineering, 2021, 7, 5.	7.0	81
51	Disordered-nanoparticle-based etalon for ultrafast humidity-responsive colorimetric sensors and anti-counterfeiting displays. Science Advances, 2022, 8, eabm8598.	10.3	77
52	Control of light absorbance using plasmonic grating based perfect absorber at visible and near-infrared wavelengths. Scientific Reports, 2017, 7, 2611.	3.3	75
53	Liquid crystal-powered Mie resonators for electrically tunable photorealistic color gradients and dark blacks. Light: Science and Applications, 2022, 11, 118.	16.6	73
54	Spectrally Selective Nanoparticle Mixture Coating for Passive Daytime Radiative Cooling. ACS Applied Materials & Interfaces, 2021, 13, 21119-21126.	8.0	71

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55	Giant chiro-optical responses in multipolar-resonances-based single-layer dielectric metasurfaces. <i>Photonics Research</i> , 2021, 9, 1667.	7.0	71
56	Revealing Structural Disorder in Hydrogenated Amorphous Silicon for a Low-Loss Photonic Platform at Visible Frequencies. <i>Advanced Materials</i> , 2021, 33, e2005893.	21.0	69
57	Nanostructured chromium-based broadband absorbers and emitters to realize thermally stable solar thermophotovoltaic systems. <i>Nanoscale</i> , 2022, 14, 6425-6436.	5.6	69
58	Engineering spin and antiferromagnetic resonances to realize an efficient direction-multiplexed visible meta-hologram. <i>Nanoscale Horizons</i> , 2020, 5, 57-64.	8.0	68
59	Challenges in fabrication towards realization of practical metamaterials. <i>Microelectronic Engineering</i> , 2016, 163, 7-20.	2.4	66
60	Visibly Transparent Radiative Cooler under Direct Sunlight. <i>Advanced Optical Materials</i> , 2021, 9, 2002226.	7.3	66
61	Metasurfaces-Based Absorption and Reflection Control: Perfect Absorbers and Reflectors. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-18.	2.7	65
62	Nanoimprint lithography for high-throughput fabrication of metasurfaces. <i>Frontiers of Optoelectronics</i> , 2021, 14, 229-251.	3.7	65
63	Novel Spin-Decoupling Strategy in Liquid Crystal-Integrated Metasurfaces for Interactive Metadisplays. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	65
64	Double-deep Q-learning to increase the efficiency of metasurface holograms. <i>Scientific Reports</i> , 2019, 9, 10899.	3.3	64
65	Optical metasurfaces for generating and manipulating optical vortex beams. <i>Nanophotonics</i> , 2022, 11, 941-956.	6.0	63
66	Topological edge and corner states in a two-dimensional photonic Su-Schrieffer-Heeger lattice. <i>Nanophotonics</i> , 2020, 9, 3227-3234.	6.0	62
67	Fabrication of three-dimensional suspended, interlayered and hierarchical nanostructures by accuracy-improved electron beam lithography overlay. <i>Scientific Reports</i> , 2017, 7, 6668.	3.3	61
68	Effect of temperature on the oxidation of Cu nanowires and development of an easy to produce, oxidation-resistant transparent conducting electrode using a PEDOT:PSS coating. <i>Scientific Reports</i> , 2018, 8, 10639.	3.3	59
69	Tunable Metasurfaces: Kerker-Conditioned Dynamic Cryptographic Nanoprints (Advanced Optical) Tj ETQq1 1 0.784314 rgBT /Over	7.3	58
70	Facile Nanocasting of Dielectric Metasurfaces with Sub-100 nm Resolution. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26109-26115.	8.0	57
71	Twisted non-diffracting beams through all dielectric meta-axicons. <i>Nanoscale</i> , 2019, 11, 20571-20578.	5.6	57
72	Tunable Metasurfaces: The Path to Fully Active Nanophotonics. <i>Advanced Photonics Research</i> , 2021, 2, 2000205.	3.6	57

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73	Metamaterials and imaging. Nano Convergence, 2015, 2, 22.	12.1	56
74	Biomimetic ultra-broadband perfect absorbers optimised with reinforcement learning. Physical Chemistry Chemical Physics, 2020, 22, 2337-2342.	2.8	56
75	Geometric and physical configurations of meta-atoms for advanced metasurface holography. Informa An-Materi-ly, 2021, 3, 739-754.	17.3	56
76	Recent Progress on Ultrathin Metalenses for Flat Optics. IScience, 2020, 23, 101877.	4.1	55
77	Near-zero reflection of all-dielectric structural coloration enabling polarization-sensitive optical encryption with enhanced switchability. Nanophotonics, 2020, 10, 919-926.	6.0	55
78	Geometric metasurface enabling polarization independent beam splitting. Scientific Reports, 2018, 8, 9468.	3.3	53
79	A Broadband Optical Diode for Linearly Polarized Light Using Symmetry-Breaking Metamaterials. Advanced Optical Materials, 2017, 5, 1700600.	7.3	52
80	Recent Advances in Tunable and Reconfigurable Metamaterials. Micromachines, 2018, 9, 560.	2.9	52
81	Metasurfaces-based imaging and applications: from miniaturized optical components to functional imaging platforms. Nanoscale Advances, 2020, 2, 605-625.	4.6	52
82	Single-Step Fabricable Flexible Metadisplays for Sensitive Chemical/Biomedical Packaging Security and Beyond. ACS Applied Materials & Interfaces, 2022, 14, 31194-31202.	8.0	52
83	Realization of Wafer-Scale Hyperlens Device for Sub-diffractive Biomolecular Imaging. ACS Photonics, 2018, 5, 2549-2554.	6.6	50
84	Kerker-Conditioned Dynamic Cryptographic Nanoprints. Advanced Optical Materials, 2019, 7, 1801070.	7.3	50
85	Switchable diurnal radiative cooling by doped VO ₂ . Opto-Electronic Advances, 2021, 4, 200006-200006.	13.3	50
86	Polarization-sensitive tunable absorber in visible and near-infrared regimes. Scientific Reports, 2018, 8, 12393.	3.3	48
87	Electrically tunable metasurface perfect absorber for infrared frequencies. Nano Convergence, 2017, 4, 36.	12.1	47
88	Structural color switching with a doped indium-gallium-zinc-oxide semiconductor. Photonics Research, 2020, 8, 1409.	7.0	46
89	Metasurface Holography Reaching the Highest Efficiency Limit in the Visible via One-Step Nanoparticle-Embedded Resin Printing. Laser and Photonics Reviews, 2022, 16, .	8.7	46
90	Nearly Perfect Transmissive Subtractive Coloration through the Spectral Amplification of Mie Scattering and Lattice Resonance. ACS Applied Materials & Interfaces, 2021, 13, 26299-26307.	8.0	45

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91	Wavelength-decoupled geometric metasurfaces by arbitrary dispersion control. Communications Physics, 2019, 2, .	5.3	44
92	Piezoelectric energy harvesting using mechanical metamaterials and phononic crystals. Communications Physics, 2022, 5, .	5.3	44
93	Acoustic wave science realized by metamaterials. Nano Convergence, 2017, 4, 3.	12.1	43
94	On-demand design of spectrally sensitive multiband absorbers using an artificial neural network. Photonics Research, 2021, 9, B153.	7.0	43
95	Active Color Control in a Metasurface by Polarization Rotation. Applied Sciences (Switzerland), 2018, 8, 982.	2.5	42
96	Recent progress on metasurfaces: applications and fabrication. Journal Physics D: Applied Physics, 2021, 54, 383002.	2.8	42
97	Demonstration of nanoimprinted hyperlens array for high-throughput sub-diffraction imaging. Scientific Reports, 2017, 7, 46314.	3.3	40
98	Chemo-Mechanically Operating Palladium-Polymer Nanograting Film for a Self-Powered H ₂ Gas Sensor. ACS Nano, 2020, 14, 16813-16822.	14.6	40
99	Moth-eye shaped on-demand broadband and switchable perfect absorbers based on vanadium dioxide. Scientific Reports, 2020, 10, 4522.	3.3	40
100	Dual-Band Operating Metaholograms with Heterogeneous Meta-Atoms in the Visible and Near-Infrared. Advanced Optical Materials, 2021, 9, 2100609.	7.3	40
101	Chiroptical Metasurfaces: Principles, Classification, and Applications. Sensors, 2021, 21, 4381.	3.8	40
102	Spin Hall Effect of Light with Near-Unity Efficiency in the Microwave. Laser and Photonics Reviews, 2021, 15, 2000393.	8.7	39
103	Manifesting Simultaneous Optical Spin Conservation and Spin Isolation in Diatomic Metasurfaces. Advanced Optical Materials, 2021, 9, 2002002.	7.3	39
104	Laser digital patterning of conductive electrodes using metal oxide nanomaterials. Nano Convergence, 2020, 7, 23.	12.1	39
105	Reaching the highest efficiency of spin Hall effect of light in the near-infrared using all-dielectric metasurfaces. Nature Communications, 2022, 13, 2036.	12.8	39
106	Solution-Processed Flexible Biomemristor Based on Gold-Decorated Chitosan. ACS Applied Materials & Interfaces, 2021, 13, 5445-5450.	8.0	38
107	Full and gradient structural colouration by lattice amplified gallium nitride Mie-resonators. Nanoscale, 2020, 12, 21392-21400.	5.6	37
108	Realization of broadband negative refraction in visible range using vertically stacked hyperbolic metamaterials. Scientific Reports, 2019, 9, 14093.	3.3	36

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109	Describing Meta-Atoms Using the Exact Higher-Order Polarizability Tensors. ACS Photonics, 2020, 7, 1153-1162.	6.6	36
110	Metasurface zone plate for light manipulation in vectorial regime. Communications Physics, 2019, 2, .	5.3	35
111	Vanadium Dioxide for Dynamically Tunable Photonics. ChemNanoMat, 2021, 7, 713-727.	2.8	35
112	Planar Achiral Metasurfaces-Induced Anomalous Chiroptical Effect of Optical Spin Isolation. ACS Applied Materials & Interfaces, 2020, 12, 48899-48909.	8.0	35
113	Capillary-force-induced collapse lithography for controlled plasmonic nanogap structures. Microsystems and Nanoengineering, 2020, 6, 65.	7.0	34
114	Deep sub-wavelength nanofocusing of UV-visible light by hyperbolic metamaterials. Scientific Reports, 2016, 6, 38645.	3.3	33
115	Topologically nontrivial photonic nodal surface in a photonic metamaterial. Physical Review B, 2019, 99, .	3.2	33
116	Top-down nanofabrication approaches toward single-digit-nanometer scale structures. Journal of Mechanical Science and Technology, 2021, 35, 837-859.	1.5	33
117	Multiple-patterning colloidal lithography-implemented scalable manufacturing of heat-tolerant titanium nitride broadband absorbers in the visible to near-infrared. Microsystems and Nanoengineering, 2021, 7, 14.	7.0	33
118	Photodeposited metal-semiconductor nanocomposites and their applications. Journal of Materiomics, 2018, 4, 83-94.	5.7	32
119	Backward Phase-Matched Second-Harmonic Generation from Stacked Metasurfaces. Physical Review Letters, 2021, 126, 033901.	7.8	32
120	Spin Hall Effect under Arbitrarily Polarized or Unpolarized Light. Laser and Photonics Reviews, 2021, 15, 2100138.	8.7	32
121	Overcoming diffraction limit: From microscopy to nanoscopy. Applied Spectroscopy Reviews, 2018, 53, 290-312.	6.7	30
122	Diffraction-induced enhancement of optical spin Hall effect in a dielectric grating. APL Photonics, 2020, 5, .	5.7	30
123	Cascade domino lithography for extreme photon squeezing. Materials Today, 2020, 39, 89-97.	14.2	29
124	Electrically focus-tuneable ultrathin lens for high-resolution square subpixels. Light: Science and Applications, 2020, 9, 98.	16.6	29
125	Recent Advances in Non-Traditional Elastic Wave Manipulation by Macroscopic Artificial Structures. Applied Sciences (Switzerland), 2020, 10, 547.	2.5	29
126	Highly suppressed solar absorption in a daytime radiative cooler designed by genetic algorithm. Nanophotonics, 2022, 11, 2107-2115.	6.0	29

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127	Metasurface-empowered spectral and spatial light modulation for disruptive holographic displays. <i>Nanoscale</i> , 2022, 14, 4380-4410.	5.6	29
128	Extremely Broadband Topological Surface States in a Photonic Topological Metamaterial. <i>Advanced Optical Materials</i> , 2019, 7, 1900900.	7.3	28
129	Importance of higher-order multipole transitions on chiral nearfield interactions. <i>Nanophotonics</i> , 2019, 8, 941-948.	6.0	28
130	Emerging advanced metasurfaces: Alternatives to conventional bulk optical devices. <i>Microelectronic Engineering</i> , 2020, 220, 111146.	2.4	28
131	Design of high transmission color filters for solar cells directed by deep Q-learning. <i>Solar Energy</i> , 2020, 195, 670-676.	6.1	28
132	Reliable Ge ₂ Sb ₂ Te ₅ Integrated High-Density Nanoscale Conductive Bridge Random Access Memory using Facile Nitrogen Doping Strategy. <i>Advanced Electronic Materials</i> , 2018, 4, 1800360.	5.1	27
133	Visualization and Investigation of Charge Transport in Mixed-Halide Perovskite via Lateral Structured Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2018, 28, 1804067.	14.9	27
134	Dual-Functional Nanoscale Devices Using Phase-Change Materials: A Reconfigurable Perfect Absorber with Nonvolatile Resistance-Change Memory Characteristics. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 564.	2.5	27
135	Reconfigurable all-dielectric Fano metasurfaces for strong full-space intensity modulation of visible light. <i>Nanoscale Horizons</i> , 2020, 5, 1088-1095.	8.0	27
136	Employing vanadium dioxide nanoparticles for flexible metasurfaces with switchable absorption properties at near-infrared frequencies. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 114002.	2.2	26
137	Self-Powered Gas Sensor Based on a Photovoltaic Cell and a Colorimetric Film with Hierarchical Micro/Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39024-39032.	8.0	24
138	Design of a transmissive metasurface antenna using deep neural networks. <i>Optical Materials Express</i> , 2021, 11, 2310.	3.0	24
139	Total Reflection-Induced Efficiency Enhancement of the Spin Hall Effect of Light. <i>ACS Photonics</i> , 2021, 8, 2705-2712.	6.6	24
140	Photonic spin Hall effect by the spin-orbit interaction in a metasurface with elliptical nano-structures. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	23
141	Geometrically flat hyperlens designed by transformation optics. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 194003.	2.8	23
142	Tutorial on metalenses for advanced flat optics: Design, fabrication, and critical considerations. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	23
143	Scalable and High-Throughput Top-Down Manufacturing of Optical Metasurfaces. <i>Sensors</i> , 2020, 20, 4108.	3.8	22
144	Inducing and Probing Localized Excitons in Atomically Thin Semiconductors via Tip-Enhanced Cavity Spectroscopy. <i>Advanced Functional Materials</i> , 2021, 31, 2102893.	14.9	22

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145	Inverse design of ultra-narrowband selective thermal emitters designed by artificial neural networks. <i>Optical Materials Express</i> , 2021, 11, 1863.	3.0	22
146	Experimental demonstration of broadband negative refraction at visible frequencies by critical layer thickness analysis in a vertical hyperbolic metamaterial. <i>Nanophotonics</i> , 2021, 10, 3871-3877.	6.0	22
147	Experimental verification of asymmetric transmission in continuous omega-shaped metamaterials. <i>RSC Advances</i> , 2018, 8, 38556-38561.	3.6	21
148	MAXIM: Metasurfaces-oriented electromagnetic wave simulation software with intuitive graphical user interfaces. <i>Computer Physics Communications</i> , 2021, 264, 107846.	7.5	21
149	Flexible high-performance graphene hybrid photodetectors functionalized with gold nanostars and perovskites. <i>NPG Asia Materials</i> , 2020, 12, .	7.9	21
150	Polarization-controlled coherent phonon generation in acoustoplasmonic metasurfaces. <i>Physical Review B</i> , 2018, 97, .	3.2	20
151	Three-dimensional artificial chirality towards low-cost and ultra-sensitive enantioselective sensing. <i>Nanoscale</i> , 2022, 14, 3720-3730.	5.6	20
152	Three-Dimensional Plasmonic Nanocluster-Driven Light-Matter Interaction for Photoluminescence Enhancement and Picomolar-Level Biosensing. <i>Nano Letters</i> , 2022, 22, 4702-4711.	9.1	20
153	Sensitive method for measuring third order nonlinearities in compact dielectric and hybrid plasmonic waveguides. <i>Optics Express</i> , 2016, 24, 545.	3.4	19
154	Surface-enhanced spectroscopy: Toward practical analysis probe. <i>Applied Spectroscopy Reviews</i> , 2019, 54, 142-175.	6.7	19
155	Metasurfaces: Subwavelength nanostructure arrays for ultrathin flat optics and photonics. <i>MRS Bulletin</i> , 2020, 45, 180-187.	3.5	19
156	Spin-valley locked topological edge states in a staggered chiral photonic crystal. <i>New Journal of Physics</i> , 2020, 22, 113022.	2.9	18
157	All-dielectric metasurface imaging platform applicable to laser scanning microscopy with enhanced axial resolution and wavelength selection. <i>Optical Materials Express</i> , 2019, 9, 3248.	3.0	18
158	Generalized analytic formula for spin Hall effect of light: shift enhancement and interface independence. <i>Nanophotonics</i> , 2022, 11, 2803-2809.	6.0	18
159	Tuning the optical and electrical properties of MoS ₂ by selective Ag photo-reduction. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	17
160	Dynamic Optical Spin Hall Effect in Chitosan-Coated All-Dielectric Metamaterials for a Biosensing Platform. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-8.	2.9	17
161	Resolution enhancement of fluorescence microscopy using encoded patterns from all-dielectric metasurfaces. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	16
162	Development of Artificial Neural Network System to Recommend Process Conditions of Injection Molding for Various Geometries. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000037.	6.1	16

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163	Underwater stealth metasurfaces composed of split-orifice“conduit hybrid resonators. Journal of Applied Physics, 2021, 129, .	2.5	16
164	Deep Q-network to produce polarization-independent perfect solar absorbers: a statistical report. Nano Convergence, 2020, 7, 26.	12.1	16
165	Incident“Polarization“Independent Spin Hall Effect of Light Reaching Half Beam Waist. Laser and Photonics Reviews, 2022, 16, .	8.7	16
166	Second Harmonic Optical Circular Dichroism of Plasmonic Chiral Helicoid-III Nanoparticles. ACS Photonics, 2022, 9, 784-792.	6.6	16
167	Thermally-curable nanocomposite printing for the scalable manufacturing of dielectric metasurfaces. Microsystems and Nanoengineering, 2022, 8, .	7.0	16
168	Demonstration of steering acoustic waves by generalized Eaton lens. Applied Physics Letters, 2018, 113, .	3.3	15
169	Accurate and instant frequency estimation from noisy sinusoidal waves by deep learning. Nano Convergence, 2019, 6, 27.	12.1	15
170	Unlocking the future of optical security with metasurfaces. Light: Science and Applications, 2021, 10, 144.	16.6	15
171	Gap-plasmon-driven spin angular momentum selection of chiral metasurfaces for intensity-tunable metaholography working at visible frequencies. Nanophotonics, 2022, 11, 4123-4133.	6.0	15
172	Electrically tunable metasurfaces: from direct to indirect mechanisms. New Journal of Physics, 2022, 24, 075001.	2.9	15
173	Nanocatalosomes as Plasmonic Bilayer Shells with Interlayer Catalytic Nanospaces for Solar“Light“Induced Reactions. Angewandte Chemie - International Edition, 2020, 59, 9460-9469.	13.8	14
174	Multilevel Absorbers via the Integration of Undoped and Tungsten-Doped Multilayered Vanadium Dioxide Thin Films. ACS Applied Materials & Interfaces, 2022, 14, 1404-1412.	8.0	14
175	Nanophotonic modal dichroism: mode-multiplexed modulators. Optics Letters, 2016, 41, 4394.	3.3	13
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