

Huigao Duan

List of Publications by Year in descending order

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170
papers

10,797
citations

28190

55
h-index

34900

98
g-index

171
all docs

171
docs citations

171
times ranked

11800
citing authors

#	ARTICLE	IF	CITATIONS
1	Printing colour at the optical diffraction limit. <i>Nature Nanotechnology</i> , 2012, 7, 557-561.	15.6	800
2	<i>Operando</i> Identification of the Dynamic Behavior of Oxygen Vacancy-Rich Co ₃ O ₄ for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2020, 142, 12087-12095.	6.6	736
3	High-Performance and Ultra-Stable Lithium-Ion Batteries Based on MOF-Derived ZnO@ZnO Quantum Dots/C Core-Shell Nanorod Arrays on a Carbon Cloth Anode. <i>Advanced Materials</i> , 2015, 27, 2400-2405.	11.1	614
4	Nanoplasmonics: Classical down to the Nanometer Scale. <i>Nano Letters</i> , 2012, 12, 1683-1689.	4.5	389
5	Stress-driven lithium dendrite growth mechanism and dendrite mitigation by electroplating on soft substrates. <i>Nature Energy</i> , 2018, 3, 227-235.	19.8	353
6	Resolution Limits of Electron-Beam Lithography toward the Atomic Scale. <i>Nano Letters</i> , 2013, 13, 1555-1558.	4.5	350
7	Direct and Reliable Patterning of Plasmonic Nanostructures with Sub-10-nm Gaps. <i>ACS Nano</i> , 2011, 5, 7593-7600.	7.3	231
8	3D-Integrated metasurfaces for full-colour holography. <i>Light: Science and Applications</i> , 2019, 8, 86.	7.7	187
9	Dynamic Color Displays Using Stepwise Cavity Resonators. <i>Nano Letters</i> , 2017, 17, 5555-5560.	4.5	181
10	3D-Printed Multi-Channel Metal Lattices Enabling Localized Electric-Field Redistribution for Dendrite-Free Aqueous Zn Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003927.	10.2	179
11	Trichromatic and Tripolarization-Channel Holography with Noninterleaved Dielectric Metasurface. <i>Nano Letters</i> , 2020, 20, 994-1002.	4.5	167
12	Reflective Color Filters and Monolithic Color Printing Based on Asymmetric Fabry-Perot Cavities Using Nickel as a Broadband Absorber. <i>Advanced Optical Materials</i> , 2016, 4, 1196-1202.	3.6	150
13	MOF-derived N-doped carbon bubbles on carbon tube arrays for flexible high-rate supercapacitors. <i>Energy Storage Materials</i> , 2018, 10, 75-84.	9.5	150
14	Understanding of hydrogen silsesquioxane electron resist for sub-5-nm-half-pitch lithography. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 2622-2627.	1.3	148
15	Recent advances in focused ion beam nanofabrication for nanostructures and devices: fundamentals and applications. <i>Nanoscale</i> , 2021, 13, 1529-1565.	2.8	138
16	Microscopic Interference Full-Color Printing Using Grayscale-Patterned Fabry-Perot Resonance Cavities. <i>Advanced Optical Materials</i> , 2017, 5, 1700029.	3.6	137
17	A Sub-10 nm Vertical Organic/Inorganic Hybrid Transistor for Pain-Perceptual and Sensitization-Regulated Nociceptor Emulation. <i>Advanced Materials</i> , 2020, 32, e1906171.	11.1	135
18	All-dielectric metasurfaces for polarization manipulation: principles and emerging applications. <i>Nanophotonics</i> , 2020, 9, 3755-3780.	2.9	133

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19	Radially Aligned Porous Carbon Nanotube Arrays on Carbon Fibers: A Hierarchical 3D Carbon Nanostructure for High-Performance Capacitive Energy Storage. <i>Advanced Functional Materials</i> , 2016, 26, 3012-3020.	7.8	132
20	Pronounced Fano Resonance in Single Gold Split Nanodisks with 15 nm Split Gaps for Intensive Second Harmonic Generation. <i>ACS Nano</i> , 2016, 10, 11105-11114.	7.3	126
21	Construction of hierarchical CoS nanowire@NiCo ₂ S ₄ nanosheet arrays via one-step ion exchange for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24033-24040.	5.2	119
22	Directed Self-Assembly at the 10 nm Scale by Using Capillary Force-Induced Nanocoheion. <i>Nano Letters</i> , 2010, 10, 3710-3716.	4.5	114
23	Fowler-Nordheim Tunneling Induced Charge Transfer Plasmons between Nearly Touching Nanoparticles. <i>ACS Nano</i> , 2013, 7, 707-716.	7.3	114
24	Integrated Metasurfaces with Microprints and Helicity-Multiplexed Holograms for Real-Time Optical Encryption. <i>Advanced Optical Materials</i> , 2020, 8, 1902020.	3.6	113
25	Amorphizing noble metal chalcogenide catalysts at the single-layer limit towards hydrogen production. <i>Nature Catalysis</i> , 2022, 5, 212-221.	16.1	113
26	Sub-10 nm fabrication: methods and applications. <i>International Journal of Extreme Manufacturing</i> , 2021, 3, 032002.	6.3	111
27	Rapid Focused Ion Beam Milling Based Fabrication of Plasmonic Nanoparticles and Assemblies via Sketch and Peel-Strategy. <i>ACS Nano</i> , 2016, 10, 11228-11236.	7.3	110
28	Dielectric metalens for miniaturized imaging systems: progress and challenges. <i>Light: Science and Applications</i> , 2022, 11, .	7.7	108
29	Long-aspect-ratio N-rich carbon nanotubes as anode material for sodium and lithium ion batteries. <i>Chemical Engineering Journal</i> , 2020, 395, 125054.	6.6	106
30	Ultrathin and Ultralight Zn Micromesh-Induced Spatial-Selective Deposition for Flexible High-Specific-Energy Zn-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2106550.	7.8	104
31	Vibrational near-field mapping of planar and buried three-dimensional plasmonic nanostructures. <i>Nature Communications</i> , 2013, 4, 2237.	5.8	103
32	Encapsulated Annealing: Enhancing the Plasmon Quality Factor in Lithographically-Defined Nanostructures. <i>Scientific Reports</i> , 2014, 4, 5537.	1.6	96
33	Electrically Tunable Multifunctional Polarization-Dependent Metasurfaces Integrated with Liquid Crystals in the Visible Region. <i>Nano Letters</i> , 2021, 21, 4554-4562.	4.5	96
34	Emerging miniaturized energy storage devices for microsystem applications: from design to integration. <i>International Journal of Extreme Manufacturing</i> , 2020, 2, 042001.	6.3	96
35	Integrating Flexible Ultralight 3D Ni Micromesh Current Collector with NiCo Bimetallic Hydroxide for Smart Hybrid Supercapacitors. <i>Advanced Functional Materials</i> , 2021, 31, 2100290.	7.8	95
36	Metal-organic-framework-derived ZnO@C@NiCo ₂ O ₄ core-shell structures as an advanced electrode for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8233-8241.	5.2	94

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37	Recent progress in Zn-based anodes for advanced lithium ion batteries. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1414-1435.	3.2	91
38	Porous ultrathin carbon nanobubbles formed carbon nanofiber webs for high-performance flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14801-14810.	5.2	89
39	Homologous NiCoP/CoP hetero-nanosheets supported on N-doped carbon nanotubes for high-rate hybrid supercapacitors. <i>Electrochimica Acta</i> , 2020, 341, 135988.	2.6	88
40	Sub-10-nm half-pitch electron-beam lithography by using poly(methyl methacrylate) as a negative resist. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, C6C58-C6C62.	0.6	86
41	Magnesium-Based Metasurfaces for Dual-Function Switching between Dynamic Holography and Dynamic Color Display. <i>ACS Nano</i> , 2020, 14, 7892-7898.	7.3	84
42	Metasurface-enabled on-chip multiplexed diffractive neural networks in the visible. <i>Light: Science and Applications</i> , 2022, 11, .	7.7	84
43	Ultrathin Glass-Based Flexible, Transparent, and Ultrasensitive Surface Acoustic Wave Humidity Sensor with ZnO Nanowires and Graphene Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39817-39825.	4.0	83
44	Flexible 3D carbon cloth as a high-performing electrode for energy storage and conversion. <i>Nanoscale</i> , 2020, 12, 5261-5285.	2.8	81
45	Enhancement of charge transport in porous carbon nanofiber networks via ZIF-8-enabled welding for flexible supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 382, 122979.	6.6	76
46	Synthesis and Transport Properties of Degenerate P-Type Nb-Doped WS ₂ Monolayers. <i>Chemistry of Materials</i> , 2019, 31, 3534-3541.	3.2	71
47	Neon Ion Beam Lithography (NIBL). <i>Nano Letters</i> , 2011, 11, 4343-4347.	4.5	69
48	Sketch and Peel Lithography for High-Resolution Multiscale Patterning. <i>Nano Letters</i> , 2016, 16, 3253-3259.	4.5	63
49	Electron-Energy Loss Study of Nonlocal Effects in Connected Plasmonic Nanoprisms. <i>ACS Nano</i> , 2013, 7, 6287-6296.	7.3	62
50	3D-Printed Bioinspired Cassie-Baxter Wettability for Controllable Microdroplet Manipulation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 1979-1987.	4.0	61
51	Wrinkle-Enabled Highly Stretchable Strain Sensors for Wide-Range Health Monitoring with a Big Data Cloud Platform. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43009-43017.	4.0	60
52	Stepwise-Nanocavity-Assisted Transmissive Color Filter Array Microprints. <i>Research</i> , 2018, 2018, 8109054.	2.8	60
53	Ultra-uniform CuO/Cu in nitrogen-doped carbon nanofibers as a stable anode for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10585-10592.	5.2	59
54	Uniform Gold-Nanoparticle-Decorated {001}-Faceted Anatase TiO ₂ Nanosheets for Enhanced Solar-Light Photocatalytic Reactions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36907-36916.	4.0	59

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55	Limiting factors in sub-10 nm scanning-electron-beam lithography. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 2616.	1.3	55
56	Fabrication and characterization of bit-patterned media beyond 1.5 Tbit/in ² . <i>Nanotechnology</i> , 2011, 22, 385301.	1.3	55
57	Hierarchical CuCo ₂ O ₄ nanowire@NiCo ₂ O ₄ nanosheet core/shell arrays for high-performance supercapacitors. <i>RSC Advances</i> , 2015, 5, 69636-69641.	1.7	53
58	Rapidly synthesizing interconnected carbon nanocage by microwave toward high-performance aluminum batteries. <i>Chemical Engineering Journal</i> , 2020, 389, 124407.	6.6	52
59	Shape-Engineered Synthesis of Atomically Thin 1T-SnS ₂ Catalyzed by Potassium Halides. <i>ACS Nano</i> , 2019, 13, 8265-8274.	7.3	51
60	Sensitive Surface-Enhanced Raman Scattering Detection Using On-Demand Postassembled Particle-on-Film Structure. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31102-31110.	4.0	50
61	Foveated glasses-free 3D display with ultrawide field of view via a large-scale 2D-metagrating complex. <i>Light: Science and Applications</i> , 2021, 10, 213.	7.7	49
62	Portable and Label-Free Detection of Blood Bilirubin with Graphene-Isolated-Au-Nanocrystals Paper Strip. <i>Analytical Chemistry</i> , 2018, 90, 13687-13694.	3.2	47
63	Facile synthesis of ZnWO ₄ nanowall arrays on Ni foam for high performance supercapacitors. <i>RSC Advances</i> , 2014, 4, 4212-4217.	1.7	46
64	Growth of Large-Area Homogeneous Monolayer Transition-Metal Disulfides via a Molten Liquid Intermediate Process. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13174-13181.	4.0	46
65	Controlled Collapse of High Aspect Ratio Nanostructures. <i>Small</i> , 2011, 7, 2661-2668.	5.2	44
66	Nanoporous B ₁₃ C ₂ towards Highly Efficient Electrochemical Nitrogen Fixation. <i>Small</i> , 2021, 17, e2102814.	5.2	44
67	30 GHz surface acoustic wave transducers with extremely high mass sensitivity. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	42
68	Ultrathin hetero-nanosheets assembled hollow Ni-Co-P/C for hybrid supercapacitors with enhanced rate capability and cyclic stability. <i>Journal of Colloid and Interface Science</i> , 2020, 577, 368-378.	5.0	39
69	Color-Changeable Four-Dimensional Printing Enabled with Ultraviolet-Curable and Thermochromic Shape Memory Polymers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18120-18127.	4.0	39
70	Metrology for electron-beam lithography and resist contrast at the sub-10 nm scale. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, C6H11-C6H17.	0.6	38
71	Topology Optimization-Based Inverse Design of Plasmonic Nanodimer with Maximum Near-Field Enhancement. <i>Advanced Functional Materials</i> , 2020, 30, 2000642.	7.8	38
72	Tailoring polysulfide trapping and kinetics by engineering hollow carbon bubble nanoreactors for high-energy Li-S pouch cells. <i>Nano Research</i> , 2021, 14, 1355-1363.	5.8	38

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73	High Performance Acoustic Wave Nitrogen Dioxide Sensor with Ultraviolet Activated 3D Porous Architecture of Ag-Decorated Reduced Graphene Oxide and Polypyrrole Aerogel. ACS Applied Materials & Interfaces, 2021, 13, 42094-42103.	4.0	38
74	Polarization-perceptual anisotropic two-dimensional ReS ₂ neuro-transistor with reconfigurable neuromorphic vision. Materials Horizons, 2022, 9, 1448-1459.	6.4	38
75	Ultrahigh-Frequency Surface Acoustic Wave Sensors with Giant Mass-Loading Effects on Electrodes. ACS Sensors, 2020, 5, 1657-1664.	4.0	37
76	Epitaxial Growth of 2D Bi ₂ O ₂ Se Nanoplates/1D CsPbBr ₃ Nanowires Mixed-Dimensional Heterostructures with Enhanced Optoelectronic Properties. Advanced Functional Materials, 2021, 31, 2010263.	7.8	36
77	Accurate inverse design of Fabry-Pérot-cavity-based color filters far beyond sRGB via a bidirectional artificial neural network. Photonics Research, 2021, 9, B236.	3.4	35
78	Double Fano resonances in hybrid disk/rod artificial plasmonic molecules based on dipole-quadrupole coupling. Nanoscale, 2020, 12, 9776-9785.	2.8	34
79	3D Printed Ultrastretchable, Hyper-Antifreezing Conductive Hydrogel for Sensitive Motion and Electrophysiological Signal Monitoring. Research, 2020, 2020, 1426078.	2.8	34
80	3D printed ultra-fast photothermal responsive shape memory hydrogel for microrobots. International Journal of Extreme Manufacturing, 2022, 4, 015302.	6.3	34
81	Holographic Sampling Display Based on Metagratings. IScience, 2020, 23, 100773.	1.9	33
82	Three-Dimensional-Stacked Gold Nanoparticles with Sub-5 nm Gaps on Vertically Aligned TiO ₂ Nanosheets for Surface-Enhanced Raman Scattering Detection Down to 10 fM Scale. ACS Applied Materials & Interfaces, 2018, 10, 35607-35614.	4.0	32
83	Free-standing sub-10 nm nanostencils for the definition of gaps in plasmonic antennas. Nanotechnology, 2013, 24, 185301.	1.3	30
84	Enhanced Second Harmonic Generation from Ferroelectric HfO ₂ -Based Hybrid Metasurfaces. ACS Nano, 2019, 13, 1213-1222.	7.3	29
85	In-situ Synthesis of 3D Carbon Coated Zinc-Cobalt Bimetallic Oxide Networks as Anode in Lithium-Ion Batteries. ChemElectroChem, 2018, 5, 1708-1716.	1.7	28
86	3D-Printed Bionic Solar Evaporator. Solar Rrl, 2022, 6, .	3.1	28
87	Enhanced Directional Fluorescence Emission of Randomly Oriented Emitters via a Metal-Dielectric Hybrid Nanoantenna. Journal of Physical Chemistry C, 2019, 123, 21150-21160.	1.5	27
88	Nanobridged rhombic antennas supporting both dipolar and high-order plasmonic modes with spatially superimposed hotspots in the mid-infrared. Opto-Electronic Advances, 2021, 4, 210076-210076.	6.4	27
89	Hot-Electrons Mediated Efficient Visible-Light Photocatalysis of Hierarchical Black Au-TiO ₂ Nanorod Arrays on Flexible Substrate. Advanced Materials Interfaces, 2016, 3, 1600588.	1.9	26
90	Large-Area, Optical Variable-Color Metasurfaces Based on Pixelated Plasmonic Nanogratings. Advanced Optical Materials, 2019, 7, 1801302.	3.6	26

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91	Metasurfaces Composed of Plasmonic Molecules: Hybridization Between Parallel and Orthogonal Surface Lattice Resonances. <i>Advanced Optical Materials</i> , 2020, 8, 1901109.	3.6	26
92	Flexible thin-film acoustic wave devices with off-axis bending characteristics for multisensing applications. <i>Microsystems and Nanoengineering</i> , 2021, 7, 97.	3.4	25
93	Direct electron-beam patterning of transferrable plasmonic gold nanoparticles using a HAuCl ₄ /PVP composite resist. <i>Nanoscale</i> , 2019, 11, 1245-1252.	2.8	24
94	Low voltage and robust InSe memristor using van der Waals electrodes integration. <i>International Journal of Extreme Manufacturing</i> , 2021, 3, 045103.	6.3	24
95	Reliable Patterning, Transfer Printing and Post-Assembly of Multiscale Adhesion-Free Metallic Structures for Nanogap Device Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2002549.	7.8	23
96	Electrochemically intercalated intermediate induced exfoliation of few-layer MoS ₂ from molybdenite for long-life sodium storage. <i>Science China Materials</i> , 2021, 64, 115-127.	3.5	22
97	Observation of optical gyromagnetic properties in a magneto-plasmonic metamaterial. <i>Nature Communications</i> , 2022, 13, 1719.	5.8	22
98	Broadband Polarization-Switchable Multi-Focal Noninterleaved Metalenses in the Visible. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100198.	4.4	21
99	CsCu ₂ Cl ₃ Nanoribbons on Various Substrates for UV Photodetectors. <i>ACS Applied Nano Materials</i> , 2021, 4, 9625-9634.	2.4	21
100	Freestanding 3D Metallic Micromesh for High-Performance Flexible Transparent Solid-State Zinc Batteries. <i>Small</i> , 2022, 18, e2201628.	5.2	21
101	General Synthesis of Nanoporous 2D Metal Compounds with 3D Bicontinuous Structure. <i>Advanced Materials</i> , 2020, 32, e2004055.	11.1	20
102	Tunable confinement of Cu-Zn bimetallic oxides in carbon nanofiber networks by thermal diffusion for lithium-ion battery. <i>Applied Surface Science</i> , 2020, 517, 146079.	3.1	20
103	Plasmonic metal nanostructures with extremely small features: new effects, fabrication and applications. <i>Nanoscale Advances</i> , 2021, 3, 4349-4369.	2.2	20
104	Multiscale and hierarchical wrinkle enhanced graphene/Ecoflex sensors integrated with human-machine interfaces and cloud-platform. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	20
105	Fabrication of single-crystal silicon nanotubes with sub-10 nm walls using cryogenic inductively coupled plasma reactive ion etching. <i>Nanotechnology</i> , 2016, 27, 365302.	1.3	19
106	High-fidelity fabrication of plasmonic nanoholes array via ion-beam planarization for extraordinary transmission applications. <i>Applied Surface Science</i> , 2020, 526, 146690.	3.1	18
107	Enhancement of the Faraday Effect and Magneto-optical Figure of Merit in All-Dielectric Metasurfaces. <i>ACS Photonics</i> , 2022, 9, 1240-1247.	3.2	18
108	Reliable fabrication of plasmonic nanostructures without an adhesion layer using dry lift-off. <i>Nanotechnology</i> , 2015, 26, 405301.	1.3	17

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109	Vapor-phase preparation of gold nanocrystals by chloroauric acid pyrolysis. <i>Journal of Colloid and Interface Science</i> , 2015, 439, 21-27.	5.0	17
110	Eâ€™â€™ Raman Mode in Thermal Strain-Fractured CVD-MoS ₂ . <i>Crystals</i> , 2016, 6, 151.	1.0	17
111	Diethylamine gas sensor using V ₂ O ₅ -decorated Î±-Fe ₂ O ₃ nanorods as a sensing material. <i>RSC Advances</i> , 2016, 6, 6511-6515.	1.7	17
112	Sensitive SERS detection at the single-particle level based on nanometer-separated mushroom-shaped plasmonic dimers. <i>Nanotechnology</i> , 2018, 29, 105301.	1.3	17
113	Stability studies of ZnO and AlN thin film acoustic wave devices in acid and alkali harsh environments. <i>RSC Advances</i> , 2020, 10, 19178-19184.	1.7	17
114	A Waveguide-Integrated Two-Dimensional Light-Emitting Diode Based on p-Type WSe ₂ /n-Type CdS Nanoribbon Heterojunction. <i>ACS Nano</i> , 2022, 16, 4371-4378.	7.3	17
115	Magnetic Doping Induced Strong Circularly Polarized Light Emission and Detection in 2D Layered Halide Perovskite. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	17
116	Surface enhanced Raman scattering of gold nanoparticles supported on copper foil with graphene as a nanometer gap. <i>Nanotechnology</i> , 2016, 27, 075201.	1.3	16
117	Osiers-sprout-like heteroatom-doped carbon nanofibers as ultrastable anodes for lithium/sodium ion storage. <i>Nano Research</i> , 2018, 11, 3791-3801.	5.8	16
118	High performance 33.7 GHz surface acoustic wave nanotransducers based on AlScN/diamond/Si layered structures. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	16
119	Kirigami-inspired multiscale patterning of metallic structures via predefined nanotrench templates. <i>Microsystems and Nanoengineering</i> , 2019, 5, 54.	3.4	16
120	Sub-5 nm Lithography with Single GeV Heavy Ions Using Inorganic Resist. <i>Nano Letters</i> , 2021, 21, 2390-2396.	4.5	16
121	Orientalional Imaging of a Single Gold Nanorod at the Liquid/Solid Interface with Polarized Evanescent Field Illumination. <i>Analytical Chemistry</i> , 2016, 88, 1995-1999.	3.2	15
122	Flexible Transparent Electrochemical Energy Conversion and Storage: From Electrode Structures to Integrated Applications. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	15
123	Nearâ€™Field Orbital Angular Momentum Generation and Detection Based on Spinâ€™Orbit Interaction in Gold Metasurfaces. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900133.	1.3	14
124	Underwater Unidirectional Cellular Fluidics. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9891-9898.	4.0	14
125	Nanoporous Intermetallic SnTe Enables Efficient Electrochemical CO ₂ Reduction into Formate via Promoting the Fracture of Metalâ€™Oxygen Bonding. <i>Small</i> , 2022, 18, e2107968.	5.2	14
126	Inverse design of structural color: finding multiple solutions <i>via</i> conditional generative adversarial networks. <i>Nanophotonics</i> , 2022, 11, 3057-3069.	2.9	14

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127	Random Nanofracture-Enabled Physical Unclonable Function. <i>Advanced Materials Technologies</i> , 2021, 6, 2001073.	3.0	13
128	High-Resolution Van der Waals Stencil Lithography for 2D Transistors. <i>Small</i> , 2021, 17, e2101209.	5.2	13
129	Circular Displacement Current Induced Anomalous Magneto-Optical Effects in High Index Mie Resonators. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	13
130	Three-Dimensional Open Water Microchannel Transpiration Mimetics. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 30435-30442.	4.0	13
131	High-performance lateral MoS ₂ -MoO ₃ heterojunction phototransistor enabled by in-situ chemical-oxidation. <i>Science China Materials</i> , 2020, 63, 1076-1084.	3.5	12
132	Engineering 3D Architecture Electrodes for High-Rate Aqueous Zn-Mn Microbatteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 10414-10422.	2.5	12
133	Record-Breaking Frequency of 44 GHz Based on the Higher Order Mode of Surface Acoustic Waves with LiNbO ₃ /SiO ₂ /SiC Heterostructures. <i>Engineering</i> , 2023, 20, 112-119.	3.2	12
134	Fabrication of Fabry-Perot-cavity-based monolithic full-color filter arrays using a template-confined micro-reflow process. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 025008.	1.5	11
135	The growth kinetics of CsPbBr ₃ microwires on mica: an <i>in situ</i> investigation. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 235105.	1.3	11
136	Ultrahigh broadband absorption in metamaterials with electric and magnetic polaritons enabled by multiple materials. <i>International Journal of Heat and Mass Transfer</i> , 2022, 185, 122355.	2.5	11
137	Phosphorization-Induced Void-Containing Fe ₃ O ₄ Nanoparticles Enabling Low Lithiation/Delithiation Potential for High-Performance Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 5060-5069.	1.7	10
138	Buckling of stomatopod-dactyl-club-inspired functional gradient plates: A numerical study. <i>Composite Structures</i> , 2019, 207, 801-815.	3.1	9
139	Pomegranate-inspired Zn ₂ Ti ₃ O ₈ /TiO ₂ @C nanospheres with pseudocapacitive effect for ultra-stable lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2021, 418, 129227.	6.6	9
140	<i>In situ</i> study of hydrogen silsesquioxane dissolution rate in salty and electrochemical developers. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, 06FJ01.	0.6	8
141	An anti-ultrasonic-stripping effect in confined micro/nanoscale cavities and its applications for efficient multiscale metallic patterning. <i>Nanoscale</i> , 2016, 8, 19541-19550.	2.8	7
142	Adhesion-Engineering-Enabled "Sketch and Peel" Lithography for Aluminum Plasmonic Nanogaps. <i>Advanced Optical Materials</i> , 2020, 8, 1901202.	3.6	7
143	Ion-beam-etching based lift-off for reliable patterning of dense and inverse metallic nanostructures towards 10-nm scale. <i>Microelectronic Engineering</i> , 2020, 232, 111406.	1.1	7
144	3D Printable Silicone Rubber for Long-Lasting and Weather-Resistant Wearable Devices. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2384-2392.	2.0	7

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145	Resist nanokirigami for multipurpose patterning. National Science Review, 2022, 9, .	4.6	7
146	Plasmon Modes and Substrate-Induced Fano Dip in Gold Nano-Octahedra. Plasmonics, 2015, 10, 1013-1021.	1.8	6
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