

Hong Liu

List of Publications by Year in descending order

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Version: 2024-02-01

575
papers

36,469
citations

3334

91
h-index

5539

163
g-index

583
all docs

583
docs citations

583
times ranked

38578
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Conductive Hydrogels for Fabricating Flexible Strain Sensors. <i>Small</i> , 2022, 18, e2101518.	10.0	188
2	An Ultrarobust and High-Performance Rotational Hydrodynamic Triboelectric Nanogenerator Enabled by Automatic Mode Switching and Charge Excitation. <i>Advanced Materials</i> , 2022, 34, e2105882.	21.0	92
3	Potential of MXene-Based Heterostructures for Energy Conversion and Storage. <i>ACS Energy Letters</i> , 2022, 7, 78-96.	17.4	69
4	Controllable Nanoparticle Aggregation through a Superhydrophobic Laser-Induced Graphene Dynamic System for Surface-Enhanced Raman Scattering Detection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3504-3514.	8.0	13
5	Graphene oxide-graphene Van der Waals heterostructure transistor biosensor for SARS-CoV-2 protein detection. <i>Talanta</i> , 2022, 240, 123197.	5.5	40
6	Emerging Internet of Things driven carbon nanotubes-based devices. <i>Nano Research</i> , 2022, 15, 4613-4637.	10.4	23
7	A wafer-scale two-dimensional platinum monosulfide ultrathin film via metal sulfurization for high performance photoelectronics. <i>Materials Advances</i> , 2022, 3, 1497-1505.	5.4	14
8	Super-Hybrid Transition Metal Sulfide Nanoarrays of Co ₃ S ₄ Nanosheet/P-doped WS ₂ Nanosheet/Co ₉ S ₈ Nanoparticle with Pt-Like Activities for Robust Alkaline Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	52
9	Poly-L-lysine-Modified Graphene Field-Effect Transistor Biosensors for Ultrasensitive Breast Cancer miRNAs and SARS-CoV-2 RNA Detection. <i>Analytical Chemistry</i> , 2022, 94, 1626-1636.	6.5	48
10	Underfocus Laser Induced Ni Nanoparticles Embedded Metallic MoN Microrods as Patterned Electrode for Efficient Overall Water Splitting. <i>Advanced Science</i> , 2022, 9, e2105869.	11.2	43
11	Regulation of Neural Differentiation of ADMSCs using Graphene-Mediated Wireless Localized Electrical Signals Driven by Electromagnetic Induction. <i>Advanced Science</i> , 2022, 9, e2104424.	11.2	19
12	Tailoring Local Electrolyte Solvation Structure via a Mesoporous Molecular Sieve for Dendrite-Free Zinc Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	56
13	Applications of nanogenerators for biomedical engineering and healthcare systems. <i>Information Materials</i> , 2022, 4, .	17.3	45
14	Stemness Maintenance and Massproduction of Neural Stem Cells on Poly L-Lactic Acid Nanofibrous Membrane Based on Piezoelectric effect. <i>Small</i> , 2022, 18, e2107236.	10.0	20
15	A Living Material Constructed from Stem Cells for Tumor-Tropic Oncotherapy with Real-Time Imaging. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	5
16	Biomimetic Metal-Organic Frameworks as Targeted Vehicles to Enhance Osteogenesis. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102821.	7.6	25
17	Growth of large size near-stoichiometric lithium niobate single crystals with low coercive field for manufacturing high quality periodically poled lithium niobate. <i>Optical Materials</i> , 2022, 125, 112058.	3.6	6
18	Electrochemically Exfoliated Chlorine-Doped Graphene for Flexible All-Solid-State Micro-Supercapacitors with High Volumetric Energy Density. <i>Advanced Materials</i> , 2022, 34, e2106309.	21.0	33

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19	Ag@CeO ₂ @Au Nanorod Plasmonic Nanohybrids for Enhanced Photocatalytic Conversion of Benzyl Alcohol to Benzaldehyde. ACS Applied Nano Materials, 2022, 5, 4972-4982.	5.0	13
20	Endowing Polyetheretherketone Implants with Osseointegration Properties: In Situ Construction of Patterned Nanorod Arrays. Small, 2022, 18, e2105589.	10.0	16
21	Synergistic coupling of NiFeZn-OH nanosheet network arrays on a hierarchical porous NiZn/Ni heterostructure for highly efficient water splitting. Science China Materials, 2022, 65, 1207-1216.	6.3	16
22	Electrochemical Insertion of Zinc Ions into Self-Organized Titanium Dioxide Nanotube Arrays to Achieve Strong Osseointegration with Titanium Implants. Advanced Materials Interfaces, 2022, 9, .	3.7	3
23	Gold Nanostrip Array-Mediated Wireless Electrical Stimulation for Accelerating Functional Neuronal Differentiation. Advanced Science, 2022, 9, .	11.2	11
24	Stem Cell Membrane-Encapsulated Zeolitic Imidazolate Frameworks: A Targeted Nano-Platform for Osteogenic Differentiation. Small, 2022, 18, .	10.0	12
25	Ferroelectric Domain Reversal Dynamics in LiNbO ₃ Optical Superlattice Investigated with a Real-Time Monitoring System. Small, 2022, 18, .	10.0	3
26	Highly specific differentiation of MSCs into neurons directed by local electrical stimuli triggered wirelessly by electromagnetic induction nanogenerator. Nano Energy, 2022, 100, 107483.	16.0	13
27	An Ultrafast Self-Polarization Effect in Barium Titanate Filled Poly(Vinylidene Fluoride) Composite Film Enabled by Self-Charge Excitation Triboelectric Nanogenerator. Advanced Functional Materials, 2022, 32, .	14.9	28
28	Ultrahigh Performance Triboelectric Nanogenerator Enabled by Charge Transmission in Interfacial Lubrication and Potential Decentralization Design. Research, 2022, 2022, .	5.7	22
29	Strong Interaction over Ru/Defects-Rich Aluminium Oxide Boosts Photothermal CO ₂ Methanation via Microchannel Flow-Type System. Advanced Energy Materials, 2022, 12, .	19.5	40
30	Oxygen vacancies and N-doping in organic-inorganic pre-intercalated vanadium oxide for high-performance aqueous zinc-ion batteries. Information Materials, 2022, 4, .	17.3	60
31	Weaker Interactions in Zn ²⁺ and Organic Ion-Intercalated Vanadium Oxide toward Highly Reversible Zinc-Ion Batteries. Energy and Environmental Materials, 2021, 4, 620-630.	12.8	55
32	MoC nanoclusters anchored Ni-doped carbon nanotubes coated on carbon fiber as three-dimensional and multifunctional electrodes for flexible supercapacitor and self-heating device. , 2021, 3, 129-141.		38
33	Non-thermal radiation heating synthesis of nanomaterials. Science Bulletin, 2021, 66, 386-406.	9.0	29
34	Advancing Versatile Ferroelectric Materials Toward Biomedical Applications. Advanced Science, 2021, 8, 2003074.	11.2	38
35	Integrating NiMoO wafer as a heterogeneous "turbo" for engineering robust Ru-based electrocatalyst for overall water splitting. Chemical Engineering Journal, 2021, 420, 127686.	12.7	24
36	Nanocellulose-Reinforced Hydroxyapatite Nanobelt Membrane as a Stem Cell Multi-Lineage Differentiation Platform for Biomimetic Construction of Bioactive 3D Osteoid Tissue In Vitro. Advanced Healthcare Materials, 2021, 10, e2001851.	7.6	18

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37	Synthesis of CdS/MoS ₂ Nanooctahedrons Heterostructure with a Tight Interface for Enhanced Photocatalytic H ₂ Evolution and Biomass Upgrading. Solar Rrl, 2021, 5, 2000415.	5.8	38
38	Revisiting the nanocrystal formation process of zero-dimensional perovskite. Journal of Materials Chemistry A, 2021, 9, 4658-4663.	10.3	26
39	Efficient Photocatalytic Degradation of RhB by Constructing Sn3O4 Nanoflakes on Sulfur-Doped NaTaO3 Nanocubes. Crystals, 2021, 11, 59.	2.2	10
40	Enrichment-Detection Integrated Exosome Profiling Biosensors Promising for Early Diagnosis of Cancer. Analytical Chemistry, 2021, 93, 4697-4706.	6.5	30
41	Attomolar-Level Ultrasensitive and Multiplex microRNA Detection Enabled by a Nanomaterial Locally Assembled Microfluidic Biochip for Cancer Diagnosis. Analytical Chemistry, 2021, 93, 5129-5136.	6.5	44
42	Synthesis of Wafer-Scale Graphene with Chemical Vapor Deposition for Electronic Device Applications. Advanced Materials Technologies, 2021, 6, 2000744.	5.8	46
43	Multi-interface collaboration of graphene cross-linked NiS-NiS ₂ -Ni ₃ S ₄ polymorph foam towards robust hydrogen evolution in alkaline electrolyte. Nano Research, 2021, 14, 4857-4864.	10.4	61
44	Steering spatially separated dual sites on nano-TiO ₂ through SMSI and lattice matching for robust photocatalytic hydrogen evolution. Chinese Chemical Letters, 2021, 32, 3613-3618.	9.0	10
45	Spatiotemporal Oscillation in Confined Epithelial Motion upon Fluid-to-Solid Transition. ACS Nano, 2021, 15, 7618-7627.	14.6	12
46	Real-Time Tracking of Emitter Generation in a Zero-Dimensional Perovskite. Chemistry of Materials, 2021, 33, 3721-3728.	6.7	20
47	Performance-Enhanced CsPbBr ₃ /HfO ₂ /Si Heterostructure Optoelectronics through the Tunneling Effect. Advanced Materials Interfaces, 2021, 8, 2100279.	3.7	1
48	Wireless Localized Electrical Stimulation Generated by an Ultrasound-Driven Piezoelectric Discharge Regulates Proinflammatory Macrophage Polarization. Advanced Science, 2021, 8, 2100962.	11.2	52
49	Electron Spin Polarization-Enhanced Photoinduced Charge Separation in Ferromagnetic ZnFe ₂ O ₄ . ACS Energy Letters, 2021, 6, 2129-2137.	17.4	51
50	Ultrasensitive and stable all graphene field-effect transistor-based Hg ²⁺ sensor constructed by using different covalently bonded RGO films assembled by different conjugate linking molecules. SmartMat, 2021, 2, 213-225.	10.7	26
51	Outside Front Cover: Volume 2 Issue 2. SmartMat, 2021, 2, i.	10.7	0
52	Applications of 2D-Layered Palladium Diselenide and Its van der Waals Heterostructures in Electronics and Optoelectronics. Nano-Micro Letters, 2021, 13, 143.	27.0	61
53	Unilateral Silver-Loaded Silk Fibroin Difunctional Membranes as Antibacterial Wound Dressings. ACS Omega, 2021, 6, 17555-17565.	3.5	7
54	Hydroxyapatite Nanorods Function as Safe and Effective Growth Factors Regulating Neural Differentiation and Neuron Development. Advanced Materials, 2021, 33, e2100895.	21.0	21

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55	Cu ₂ S/BiVO ₄ Heterostructure Photoanode with Extended Wavelength Range for Efficient Water Splitting. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15890-15898.	3.1	9
56	Biomaterial Cues Regulated Differentiation of Neural Stem Cells into GABAergic Neurons through Ca ²⁺ /c-Jun/TLX3 Signaling Promoted by Hydroxyapatite Nanorods. <i>Nano Letters</i> , 2021, 21, 7371-7378.	9.1	10
57	Ag Nanoparticles Anchored on Nanoporous Ge Skeleton as High-Performance Anode for Lithium-Ion Batteries. <i>Chinese Journal of Chemistry</i> , 2021, 39, 2881-2888.	4.9	9
58	Constructing van der Waals Heterogeneous Photocatalysts Based on Atomically Thin Carbon Nitride Sheets and Graphdiyne for Highly Efficient Photocatalytic Conversion of CO ₂ into CO. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40629-40637.	8.0	51
59	Ultrasonic-driven electrical signal-iron ion synergistic stimulation based on piezotronics induced neural differentiation of mesenchymal stem cells on FeOOH/PVDF nanofibrous hybrid membrane. <i>Nano Energy</i> , 2021, 87, 106192.	16.0	29
60	Multi-interfacial engineering of hierarchical CoNi ₂ S ₄ /WS ₂ /Co ₉ S ₈ hybrid frameworks for robust all-pH electrocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120455.	20.2	50
61	Large area uniform Pt _x synthesis on sapphire substrate for performance improved photodetectors. <i>Applied Materials Today</i> , 2021, 25, 101176.	4.3	10
62	Strategies of structural and defect engineering for high-performance rechargeable aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19245-19281.	10.3	41
63	Nanostructured Black Aluminum Prepared by Laser Direct Writing as a High-Performance Plasmonic Absorber for Photothermal/Electric Conversion. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4305-4315.	8.0	29
64	Excitation Management of Lead-Free Perovskite Nanocrystals Through Doping. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6404-6410.	8.0	40
65	In Situ Electrochemical Transformation Reaction of Ammonium-Anchored Heptavanadate Cathode for Long-Life Aqueous Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5034-5043.	8.0	43
66	Regulation of stem cell fate using nanostructure-mediated physical signals. <i>Chemical Society Reviews</i> , 2021, 50, 12828-12872.	38.1	35
67	Manipulating all-pH hydrogen evolution kinetics on metal sulfides through one-pot simultaneously derived multi-interface engineering and phosphorus doping. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25539-25546.	10.3	19
68	Surface specifically modified NK-92 cells with CD56 antibody conjugated superparamagnetic Fe ₃ O ₄ nanoparticles for magnetic targeting immunotherapy of solid tumors. <i>Nanoscale</i> , 2021, 13, 19109-19122.	5.6	12
69	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. <i>ACS Sensors</i> , 2021, 6, 3841-3881.	7.8	45
70	Piezotronic effect determined neuron-like differentiation of adult stem cells driven by ultrasound. <i>Nano Energy</i> , 2021, 90, 106634.	16.0	21
71	High-performance electronics and optoelectronics of monolayer tungsten diselenide full film from pre-seeding strategy. <i>Informa-Materially</i> , 2021, 3, 1455-1469.	17.3	32
72	Front Cover Image. <i>Informa-Materially</i> , 2021, 3, .	17.3	0

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73	TiO ₂ particles wrapped onto macroporous germanium skeleton as high performance anode for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 381, 122649.	12.7	46
74	Fabrication of a uniform Au nanodot array/monolayer graphene hybrid structure for high-performance surface-enhanced Raman spectroscopy. <i>Journal of Materials Science</i> , 2020, 55, 591-602.	3.7	20
75	Ni-Ni ₃ P nanoparticles embedded into N, P-doped carbon on 3D graphene frameworks via in situ phosphatization of saccharomycetes with multifunctional electrodes for electrocatalytic hydrogen production and anodic degradation. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118147.	20.2	82
76	Support-free 3D hierarchical nanoporous Cu@Cu ₂ O for fast tandem ammonia borane dehydrogenation and nitroarenes hydrogenation under mild conditions. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152372.	5.5	25
77	A method to visually observe the degradation-diffusion-reconstruction behavior of hydroxyapatite in the bone repair process. <i>Acta Biomaterialia</i> , 2020, 101, 554-564.	8.3	21
78	Micro/Nanostructured Interface for Liquid Manipulation and Its Applications. <i>Small</i> , 2020, 16, e1903849.	10.0	70
79	Highly-efficient overall water splitting in 2D Janus group-III chalcogenide multilayers: the roles of intrinsic electric field and vacancy defects. <i>Science Bulletin</i> , 2020, 65, 27-34.	9.0	54
80	Piezopotential gated two-dimensional InSe field-effect transistor for designing a pressure sensor based on piezotronic effect. <i>Nano Energy</i> , 2020, 70, 104457.	16.0	35
81	Highly Morphology-Controllable and Highly Sensitive Capacitive Tactile Sensor Based on Epidermis-Inspired Interlocked Asymmetric Nanocone Arrays for Detection of Tiny Pressure. <i>Small</i> , 2020, 16, e1904774.	10.0	166
82	One-pot synthesis of BiOCl nanosheets with dual functional carbon for ultra-highly efficient photocatalytic degradation of RhB. <i>Environmental Research</i> , 2020, 182, 109077.	7.5	43
83	Microflowers Comprised of Cu/Cu ₂ O/NC Nanosheets as Electrocatalysts and Horseradish Peroxidase Mimics. <i>ACS Applied Nano Materials</i> , 2020, 3, 617-623.	5.0	30
84	One-Step Sublimation and Epitaxial Growth of CdS-Cd Heterogeneous Nanoparticles on S-Doped MoO ₂ Nanosheets for Efficient Visible Light-Driven Photocatalytic H ₂ Generation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2362-2369.	8.0	26
85	Photoluminescence Origin of Zero-Dimensional Cs ₄ PbBr ₆ Perovskite. <i>ACS Energy Letters</i> , 2020, 5, 87-99.	17.4	128
86	Nanotextured silk fibroin/hydroxyapatite biomimetic bilayer tough structure regulated osteogenic/chondrogenic differentiation of mesenchymal stem cells for osteochondral repair. <i>Cell Proliferation</i> , 2020, 53, e12917.	5.3	20
87	Construction of High Stable All-Graphene-Based FETs as Highly Sensitive Dual-Signal miRNA Sensors by a Covalent Layer-by-Layer Assembling Method. <i>Advanced Electronic Materials</i> , 2020, 6, 2000731.	5.1	14
88	Morphology-dependent highly active microcrystalline stannous oxalate photocatalysts with selectively exposed facets and low specific surface areas. <i>Applied Surface Science</i> , 2020, 525, 146347.	6.1	7
89	Active facet regulation of highly aligned molybdenum carbide porous octahedrons via crystal engineering for hydrogen evolution reaction. <i>Nano Energy</i> , 2020, 77, 105056.	16.0	41
90	Charge Redistribution Caused by S,P Synergistically Active Ru Endows an Ultrahigh Hydrogen Evolution Activity of S-Doped RuP Embedded in N,P,S-Doped Carbon. <i>Advanced Science</i> , 2020, 7, 2001526.	11.2	77

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91	Role of carrier-transfer in the optical nonlinearity of graphene/Bi ₂ Te ₃ heterojunctions. <i>Nanoscale</i> , 2020, 12, 16956-16966.	5.6	20
92	Calcium ion pinned vanadium oxide cathode for high-capacity and long-life aqueous rechargeable zinc-ion batteries. <i>Science China Chemistry</i> , 2020, 63, 1767-1776.	8.2	61
93	Reduction of the ambient effect in multilayer InSe transistors and a strategy toward stable 2D-based optoelectronic applications. <i>Nanoscale</i> , 2020, 12, 18356-18362.	5.6	13
94	A Microorganism Bred TiO ₂ /Au/TiO ₂ Heterostructure for Whispering Gallery Mode Resonance Assisted Plasmonic Photocatalysis. <i>ACS Nano</i> , 2020, 14, 13876-13885.	14.6	54
95	Topographical regulation of stem cell differentiation by plant-derived micro/nanostructures. <i>Nanoscale</i> , 2020, 12, 18305-18312.	5.6	7
96	Self-supporting Co _{0.85} Se nanosheets anchored on Co plate as highly efficient electrocatalyst for hydrogen evolution reaction in both acidic and alkaline media. <i>Nano Research</i> , 2020, 13, 2950-2957.	10.4	20
97	Engineered Microstructure Derived Hierarchical Deformation of Flexible Pressure Sensor Induces a Supersensitive Piezoresistive Property in Broad Pressure Range. <i>Advanced Science</i> , 2020, 7, 2000154.	11.2	100
98	Microstructure and domain engineering of lithium niobate crystal films for integrated photonic applications. <i>Light: Science and Applications</i> , 2020, 9, 197.	16.6	89
99	Temperature dependent domain-wall moving dynamics of lithium niobate during high electric field periodic poling. <i>Journal of Applied Physics</i> , 2020, 128, 224101.	2.5	3
100	Fabrication of a Sensitive Strain and Pressure Sensor from Gold Nanoparticle-Assembled 3D-Interconnected Graphene Microchannel-Embedded PDMS. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51854-51863.	8.0	41
101	Addressable surface engineering for N-doped WS ₂ nanosheet arrays with abundant active sites and the optimal local electronic structure for enhanced hydrogen evolution reaction. <i>Nanoscale</i> , 2020, 12, 22541-22550.	5.6	26
102	Low Lattice Mismatch InSe/Se Vertical Van der Waals Heterostructure for High-Performance Transistors via Strong Fermi-Level Depinning. <i>Small Methods</i> , 2020, 4, 2000238.	8.6	22
103	Tunable Layered (Na,Mn)V ₈ O ₂₀ ·nH ₂ O Cathode Material for High-Performance Aqueous Zinc Ion Batteries. <i>Advanced Science</i> , 2020, 7, 2000083.	11.2	113
104	Alkali titanate nanobelts-supported Pd catalysts for room temperature formaldehyde oxidation. <i>Catalysis Communications</i> , 2020, 142, 106034.	3.3	10
105	Tailoring the ruthenium reactive sites on N doped molybdenum carbide nanosheets via the anti-Ostwald ripening as efficient electrocatalyst for hydrogen evolution reaction in alkaline media. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119236.	20.2	85
106	Construction of High Field-Effect Mobility Multilayer MoS ₂ Field-Effect Transistors with Excellent Stability through Interface Engineering. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2132-2140.	4.3	32
107	Novel (Ni, Fe)S ₂ /(Ni, Fe) ₃ S ₄ solid solution hybrid: an efficient electrocatalyst with robust oxygen-evolving performance. <i>Science China Chemistry</i> , 2020, 63, 1030-1039.	8.2	22
108	Self-reduction derived nickel nanoparticles in CdS/Ni(OH) ₂ heterostructure for enhanced photocatalytic hydrogen evolution. <i>Journal of Chemical Physics</i> , 2020, 152, 214701.	3.0	13

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109	Water Splitting: From Electrode to Green Energy System. <i>Nano-Micro Letters</i> , 2020, 12, 131.	27.0	288
110	Unsymmetrical Alveolate PMMA/MWCNT Film as a Piezoresistive E-Skin with Four-Dimensional Resolution and Application for Detecting Motion Direction and Airflow Rate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30896-30904.	8.0	23
111	Assembling Sn ₃ O ₄ nanostructures on a hydrophobic PVDF film through metal-F coordination to construct a piezotronic effect-enhanced Sn ₃ O ₄ /PVDF hybrid photocatalyst. <i>Nano Energy</i> , 2020, 72, 104688.	16.0	51
112	Phosphorus-Doped Iron Nitride Nanoparticles Encapsulated by Nitrogen-Doped Carbon Nanosheets on Iron Foam In Situ Derived from <i>Saccharomyces Cerevisiae</i> for Electrocatalytic Overall Water Splitting. <i>Small</i> , 2020, 16, e2001980.	10.0	34
113	A Universal Process: Self-Templated and Orientated Fabrication of XMoO ₄ (X: Ni, Co, or Fe) Nanosheets on MoO ₂ Nanoplates as Electrocatalysts for Efficient Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33785-33794.	8.0	23
114	Energy-efficient, fully flexible, high-performance tactile sensor based on piezotronic effect: Piezoelectric signal amplified with organic field-effect transistors. <i>Nano Energy</i> , 2020, 76, 105050.	16.0	68
115	Designing a bioinspired synthetic tree by unidirectional freezing for simultaneous solar steam generation and salt collection. <i>EcoMat</i> , 2020, 2, e12018.	11.9	65
116	Commercially Available CuO Catalyzed Hydrogenation of Nitroarenes Using Ammonia Borane as a Hydrogen Source. <i>ChemCatChem</i> , 2020, 12, 2426-2430.	3.7	27
117	Electromagnetic induction derived micro-electric potential in metal-semiconductor core-shell hybrid nanostructure enhancing charge separation for high performance photocatalysis. <i>Nano Energy</i> , 2020, 71, 104624.	16.0	56
118	WSe ₂ 2D p-type semiconductor-based electronic devices for information technology: Design, preparation, and applications. <i>Information Materials</i> , 2020, 2, 656-697.	17.3	115
119	Homogeneous Chitosan/Graphene Oxide Nanocomposite Hydrogel-Based Actuator Driven by Efficient Photothermally Induced Water Gradients. <i>ACS Applied Nano Materials</i> , 2020, 3, 1002-1009.	5.0	21
120	A Facile and Sensitive DNA Sensing of Harmful Algal Blooms Based on Graphene Oxide Nanosheets. <i>Marine Biotechnology</i> , 2020, 22, 498-510.	2.4	6
121	Puffing quaternary Fe _x Co _y Ni _{1-x-y} P nanoarray via kinetically controlled alkaline etching for robust overall water splitting. <i>Science China Materials</i> , 2020, 63, 1054-1064.	6.3	35
122	Ultrasensitive Label-free MiRNA Sensing Based on a Flexible Graphene Field-Effect Transistor without Functionalization. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1090-1098.	4.3	59
123	Realization of Low Latent Heat of a Solar Evaporator via Regulating the Water State in Wood Channels. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18504-18511.	8.0	83
124	Nonoxidized MXene Quantum Dots Prepared by Microexplosion Method for Cancer Catalytic Therapy. <i>Advanced Functional Materials</i> , 2020, 30, 2000308.	14.9	87
125	Metallic Ni ₃ Mo ₃ N Porous Microrods with Abundant Catalytic Sites as Efficient Electrocatalyst for Large Current Density and Superstability of Hydrogen Evolution Reaction and Water Splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118956.	20.2	138
126	Neuron-like cell differentiation of hADSCs promoted by a copper sulfide nanostructure mediated plasmonic effect driven by near-infrared light. <i>Nanoscale</i> , 2020, 12, 9833-9841.	5.6	9

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127	Ultrasensitive Physical, Bio, and Chemical Sensors Derived from 1 st , 2 nd , and 3 rd Nanocellulosic Materials. <i>Small</i> , 2020, 16, e1906567.	10.0	122
128	Stable InSe transistors with high-field effect mobility for reliable nerve signal sensing. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	7.9	31
129	Progress in miRNA Detection Using Graphene Material ^{2D} -Based Biosensors. <i>Small</i> , 2019, 15, e1901867.	10.0	36
130	Suppressing Photoinduced Charge Recombination via the Lorentz Force in a Photocatalytic System. <i>Advanced Science</i> , 2019, 6, 1901244.	11.2	101
131	Electrochemical Flocculation Integrated Hydrogen Evolution Reaction of Fe@N-Doped Carbon Nanotubes on Iron Foam for Ultralow Voltage Electrolysis in Neutral Media. <i>Advanced Science</i> , 2019, 6, 1901458.	11.2	73
132	In Vivo Tumor Visualization through MRI Off ^{on} Switching of NaGdF ₄ @CaCO ₃ Nanoconjugates. <i>Advanced Materials</i> , 2019, 31, e1901851.	21.0	79
133	Mechanoluminescence enhancement of ZnS:Cu,Mn with piezotronic effect induced trap-depth reduction originated from PVDF ferroelectric film. <i>Nano Energy</i> , 2019, 63, 103861.	16.0	50
134	Band structure engineering of bioinspired Fe doped SrMoO ₄ for enhanced photocatalytic nitrogen reduction performance. <i>Nano Energy</i> , 2019, 66, 104187.	16.0	71
135	Effect of Hydroxyapatite Nanorods on the Fate of Human Adipose ^{2D} -Derived Stem Cells Assessed In Situ at the Single Cell Level with a High ^{throughput} , Real ^{time} Microfluidic Chip. <i>Small</i> , 2019, 15, e1905001.	10.0	14
136	Field ^{effect} Transistors: A Facile and Effective Method for Patching Sulfur Vacancies of WS ₂ via Nitrogen Plasma Treatment (Small 36/2019). <i>Small</i> , 2019, 15, 1970195.	10.0	0
137	General Approach to the Synthesis of Heterodimers of Metal Nanoparticles through Site-Selected Protection and Growth. <i>Nano Letters</i> , 2019, 19, 6703-6708.	9.1	51
138	Graphene Nanostructure-Based Tactile Sensors for Electronic Skin Applications. <i>Nano-Micro Letters</i> , 2019, 11, 71.	27.0	97
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