

Yumeng Shi

List of Publications by Year in descending order

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docs citations

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times ranked

29881
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Layer MoS ₂ Phototransistors. ACS Nano, 2012, 6, 74-80.	14.6	3,103
2	Intrinsic Structural Defects in Monolayer Molybdenum Disulfide. Nano Letters, 2013, 13, 2615-2622.	9.1	1,766
3	Growth of Large-Area and Highly Crystalline MoS ₂ Thin Layers on Insulating Substrates. Nano Letters, 2012, 12, 1538-1544.	9.1	1,749
4	Integrated Circuits Based on Bilayer MoS ₂ Transistors. Nano Letters, 2012, 12, 4674-4680.	9.1	1,526
5	Synthesis of Few-Layer Hexagonal Boron Nitride Thin Film by Chemical Vapor Deposition. Nano Letters, 2010, 10, 4134-4139.	9.1	1,058
6	Synthesis of Monolayer Hexagonal Boron Nitride on Cu Foil Using Chemical Vapor Deposition. Nano Letters, 2012, 12, 161-166.	9.1	1,057
7	Epitaxial growth of a monolayer WSe ₂ -MoS ₂ lateral p-n junction with an atomically sharp interface. Science, 2015, 349, 524-528.	12.6	1,009
8	Preparation of Novel 3D Graphene Networks for Supercapacitor Applications. Small, 2011, 7, 3163-3168.	10.0	980
9	van der Waals Epitaxy of MoS ₂ Layers Using Graphene As Growth Templates. Nano Letters, 2012, 12, 2784-2791.	9.1	888
10	Recent advances in controlled synthesis of two-dimensional transition metal dichalcogenides via vapour deposition techniques. Chemical Society Reviews, 2015, 44, 2744-2756.	38.1	709
11	Synthesis and Transfer of Single-Layer Transition Metal Disulfides on Diverse Surfaces. Nano Letters, 2013, 13, 1852-1857.	9.1	612
12	Preparation of MoS ₂ -Coated Three-Dimensional Graphene Networks for High-Performance Anode Material in Lithium-Ion Batteries. Small, 2013, 9, 3433-3438.	10.0	542
13	Doping Single-Layer Graphene with Aromatic Molecules. Small, 2009, 5, 1422-1426.	10.0	537
14	Electrical Detection of DNA Hybridization with Single-Base Specificity Using Transistors Based on CVD-Grown Graphene Sheets. Advanced Materials, 2010, 22, 1649-1653.	21.0	516
15	Work Function Engineering of Graphene Electrode <i>via</i> Chemical Doping. ACS Nano, 2010, 4, 2689-2694.	14.6	501
16	Synthesis and Characterization of Hexagonal Boron Nitride Film as a Dielectric Layer for Graphene Devices. ACS Nano, 2012, 6, 8583-8590.	14.6	472
17	Heterostructures based on two-dimensional layered materials and their potential applications. Materials Today, 2016, 19, 322-335.	14.2	469
18	Nanoelectronic biosensors based on CVD grown graphene. Nanoscale, 2010, 2, 1485.	5.6	408

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19	Heterostructured WS ₂ /CH ₃ NH ₃ PbI ₃ Photoconductors with Suppressed Dark Current and Enhanced Photodetectivity. <i>Advanced Materials</i> , 2016, 28, 3683-3689.	21.0	396
20	Selective Decoration of Au Nanoparticles on Monolayer MoS ₂ Single Crystals. <i>Scientific Reports</i> , 2013, 3, 1839.	3.3	380
21	Enhancing the conductivity of transparent graphene films via doping. <i>Nanotechnology</i> , 2010, 21, 285205.	2.6	321
22	Self-assembly of hierarchical MoS _x /CNT nanocomposites (2\times3): towards high performance anode materials for lithium ion batteries. <i>Scientific Reports</i> , 2013, 3, 2169.	3.3	290
23	Epitaxial Growth of Two-Dimensional Layered Transition-Metal Dichalcogenides: Growth Mechanism, Controllability, and Scalability. <i>Chemical Reviews</i> , 2018, 118, 6134-6150.	47.7	285
24	Strong Rashba-Edelstein Effect-Induced Spin-Orbit Torques in Monolayer Transition Metal Dichalcogenide/Ferromagnet Bilayers. <i>Nano Letters</i> , 2016, 16, 7514-7520.	9.1	247
25	Emerging energy applications of two-dimensional layered transition metal dichalcogenides. <i>Nano Energy</i> , 2015, 18, 293-305.	16.0	236
26	Symmetry Breaking of Graphene Monolayers by Molecular Decoration. <i>Physical Review Letters</i> , 2009, 102, 135501.	7.8	224
27	CoO nanoflowers woven by CNT network for high energy density flexible micro-supercapacitor. <i>Nano Energy</i> , 2014, 3, 46-54.	16.0	185
28	Photoluminescence Enhancement and Structure Repairing of Monolayer MoSe ₂ by Hydrohalic Acid Treatment. <i>ACS Nano</i> , 2016, 10, 1454-1461.	14.6	179
29	Effective doping of single-layer graphene from underlying SiO_2 . <i>Physical Review B</i> , 2009, 79, .	3.2	173
30	Photoelectrical Response in Single-Layer Graphene Transistors. <i>Small</i> , 2009, 5, 2005-2011.	10.0	141
31	Efficient White Photoluminescence from Self-Trapped Excitons in Sb ³⁺ /Bi ³⁺ -Codoped Cs ₂ Nal ₆ Cl ₆ Double Perovskites with Tunable Dual-Emission. <i>ACS Energy Letters</i> , 2021, 6, 3343-3351.	17.4	126
32	Designed hybrid nanostructure with catalytic effect: beyond the theoretical capacity of SnO ₂ anode material for lithium ion batteries. <i>Scientific Reports</i> , 2015, 5, 9164.	3.3	119
33	3D carbon foam-supported WS ₂ nanosheets for cable-shaped flexible sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10813-10824.	10.3	112
34	3D self-branched zinc-cobalt Oxide@N-doped carbon hollow nanowall arrays for high-performance asymmetric supercapacitors and oxygen electrocatalysis. <i>Energy Storage Materials</i> , 2019, 23, 653-663.	18.0	104
35	Bifunctional porous iron phosphide/carbon nanostructure enabled high-performance sodium-ion battery and hydrogen evolution reaction. <i>Energy Storage Materials</i> , 2018, 15, 98-107.	18.0	102
36	Monitoring Morphological Changes in 2D Monolayer Semiconductors Using Atom-Thick Plasmonic Nanocavities. <i>ACS Nano</i> , 2015, 9, 825-830.	14.6	101

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37	Printed all-solid flexible microsupercapacitors: towards the general route for high energy storage devices. <i>Nanotechnology</i> , 2014, 25, 094010.	2.6	100
38	A novel single-layered MoS ₂ nanosheet based microfluidic biosensor for ultrasensitive detection of DNA. <i>Nanoscale</i> , 2015, 7, 2245-2249.	5.6	100
39	In Situ Transmission Electron Microscopy for Energy Materials and Devices. <i>Advanced Materials</i> , 2019, 31, e1900608.	21.0	95
40	Nanocarbon Catalysts: Recent Understanding Regarding the Active Sites. <i>Advanced Science</i> , 2020, 7, 1902126.	11.2	94
41	Pre-lithiation of onion-like carbon/MoS ₂ nano-urchin anodes for high-performance rechargeable lithium ion batteries. <i>Nanoscale</i> , 2014, 6, 8884-8890.	5.6	93
42	MXene-Based Materials for Electrochemical Sodium-Ion Storage. <i>Advanced Science</i> , 2021, 8, e2003185.	11.2	88
43	Efficient Sodium Storage in Rolled-Up Amorphous Si Nanomembranes. <i>Advanced Materials</i> , 2018, 30, e1706637.	21.0	87
44	Differentiation of Gas Molecules Using Flexible and All-Carbon Nanotube Devices. <i>Journal of Physical Chemistry C</i> , 2008, 112, 650-653.	3.1	85
45	Phase Transformation Induced Capacitance Activation for 3D Graphene-CoO Nanorod Pseudocapacitor. <i>Advanced Energy Materials</i> , 2014, 4, 1301788.	19.5	83
46	Construction of complex NiS multi-shelled hollow structures with enhanced sodium storage. <i>Energy Storage Materials</i> , 2019, 23, 17-24.	18.0	83
47	Rational design of MXene-based films for energy storage: Progress, prospects. <i>Materials Today</i> , 2021, 46, 183-211.	14.2	83
48	3D graphene supported MoO ₂ for high performance binder-free lithium ion battery. <i>Nanoscale</i> , 2014, 6, 9839-9845.	5.6	82
49	3D printed rGO/CNT microlattice aerogel for a dendrite-free sodium metal anode. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19843-19854.	10.3	82
50	Enhanced sodium storage kinetics by volume regulation and surface engineering via rationally designed hierarchical porous FeP@C/rGO. <i>Nanoscale</i> , 2020, 12, 4341-4351.	5.6	80
51	Boosting Sodium Storage of Fe _{1-x} S/MoS ₂ Composite via Heterointerface Engineering. <i>Nano-Micro Letters</i> , 2019, 11, 80.	27.0	77
52	Boosting the Electrocatalytic Water Oxidation Performance of CoFe ₂ O ₄ Nanoparticles by Surface Defect Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3978-3983.	8.0	76
53	Graphene Oxide as a Carbon Source for Controlled Growth of Carbon Nanowires. <i>Small</i> , 2011, 7, 1199-1202.	10.0	75
54	Growth selectivity of hexagonal-boron nitride layers on Ni with various crystal orientations. <i>RSC Advances</i> , 2012, 2, 111-115.	3.6	72

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55	Chemically modified graphene: flame retardant or fuel for combustion?. Journal of Materials Chemistry, 2011, 21, 3277-3279.	6.7	70
56	Promoting polysulfide conversion by catalytic ternary Fe ₃ O ₄ /carbon/graphene composites with ordered microchannels for ultrahigh-rate lithium-sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 25078-25087.	10.3	68
57	Self-Powered Perovskite/CdS Heterostructure Photodetectors. ACS Applied Materials & Interfaces, 2019, 11, 40204-40213.	8.0	65
58	Determination of band offsets at GaN/single-layer MoS ₂ heterojunction. Applied Physics Letters, 2016, 109, .	3.3	64
59	Efficient low-frequency microwave absorption and solar evaporation properties of Fe_3O_4 nanocubes/graphene composites. Chemical Engineering Journal, 2021, 405, 126676.	12.7	63
60	Design Multifunctional Catalytic Interface: Toward Regulation of Polysulfide and Li ₂ S Redox Conversion in Li-S Batteries. Small, 2019, 15, e1906132.	10.0	62
61	Application of solvent modified PEDOT:PSS to graphene electrodes in organic solar cells. Nanoscale, 2013, 5, 8934.	5.6	61
62	Tunable Pseudocapacitive Behavior in Metal-Organic Framework-Derived TiO ₂ @Porous Carbon Enabling High-Performance Membrane Capacitive Deionization. ACS Applied Energy Materials, 2019, 2, 1812-1822.	5.1	60
63	Rechargeable Aqueous Zinc-Ion Batteries in MgSO ₄ /ZnSO ₄ Hybrid Electrolytes. Nano-Micro Letters, 2020, 12, 60.	27.0	60
64	Two-step fabrication of single-layer rectangular SnSe flakes. 2D Materials, 2017, 4, 021026.	4.4	57
65	Porosity Engineering of MXene Membrane towards Polysulfide Inhibition and Fast Lithium Ion Transportation for Lithium-Sulfur Batteries. Small, 2021, 17, e2007442.	10.0	57
66	Dual Wavelength Electroluminescence from CdSe/CdS Tetrapods. ACS Nano, 2014, 8, 2873-2879.	14.6	56
67	Gap States at Low-Angle Grain Boundaries in Monolayer Tungsten Diselenide. Nano Letters, 2016, 16, 3682-3688.	9.1	55
68	Stimuli-Enabled Artificial Synapses for Neuromorphic Perception: Progress and Perspectives. Small, 2020, 16, e2001504.	10.0	55
69	Hybrid CuO/SnO ₂ nanocomposites: Towards cost-effective and high performance binder free lithium ion batteries anode materials. Applied Physics Letters, 2014, 105, .	3.3	53
70	Bifunctional nickel oxide-based nanosheets for highly efficient overall urea splitting. Chemical Communications, 2019, 55, 6555-6558.	4.1	53
71	Laterally Stitched Heterostructures of Transition Metal Dichalcogenide: Chemical Vapor Deposition Growth on Lithographically Patterned Area. ACS Nano, 2016, 10, 10516-10523.	14.6	52
72	In Situ Synthesis of Lead-Free Halide Perovskite Cs ₂ AgBiBr ₆ Supported on Nitrogen-Doped Carbon for Efficient Hydrogen Evolution in Aqueous HBr Solution. ACS Applied Materials & Interfaces, 2021, 13, 10037-10046.	8.0	52

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73	Constructing stress-release layer on Fe ₇ Se ₈ -based composite for highly stable sodium-storage. Nano Energy, 2020, 69, 104389.	16.0	49
74	Rapid synthesis and mechanochemical reactions of cesium copper halides for convenient chromaticity tuning and efficient white light emission. Journal of Materials Chemistry C, 2020, 8, 4895-4901.	5.5	49
75	Two-Dimensional Cs ₂ AgBiBr ₆ /WS ₂ Heterostructure-Based Photodetector with Boosted Detectivity via Interfacial Engineering. ACS Nano, 2022, 16, 3985-3993.	14.6	49
76	Efficient Multicolor and White Photoluminescence in Erbium- and Holmium-Incorporated Cs ₂ NaInCl ₆ :Sb ³⁺ Double Perovskites. Chemistry of Materials, 2022, 34, 6288-6295.	6.7	49
77	An organic flow desalination battery. Energy Storage Materials, 2019, 20, 203-207.	18.0	47
78	Large-Area 2-D Electronics: Materials, Technology, and Devices. Proceedings of the IEEE, 2013, 101, 1638-1652.	21.3	46
79	Rhenium disulfide nanosheets/carbon composite as novel anodes for high-rate and long lifespan sodium-ion batteries. Nano Energy, 2019, 61, 626-636.	16.0	46
80	Photocatalytic Hydrogen Evolution under Ambient Conditions on Polymeric Carbon Nitride/Donor-Acceptor Organic Molecule Heterostructures. Advanced Functional Materials, 2020, 30, 2005106.	14.9	46
81	Atomic-Monolayer Two-Dimensional Lateral Quasi-Heterojunction Bipolar Transistors with Resonant Tunneling Phenomenon. ACS Nano, 2017, 11, 11015-11023.	14.6	45
82	Tracking Optical Welding through Groove Modes in Plasmonic Nanocavities. Nano Letters, 2016, 16, 5605-5611.	9.1	44
83	Electrochemical Performance of Sb ₄ O ₅ Cl ₂ as a New Anode Material in Aqueous Chloride-Ion Battery. ACS Applied Materials & Interfaces, 2019, 11, 9144-9148.	8.0	44
84	Synthesis and structure of two-dimensional transition-metal dichalcogenides. MRS Bulletin, 2015, 40, 566-576.	3.5	43
85	The photoluminescence mechanism of CsPb ₂ Br ₅ microplates revealed by spatially resolved single particle spectroscopy. Nanoscale, 2019, 11, 3186-3192.	5.6	43
86	Synthesis of bismuth sulfide nanobelts for high performance broadband photodetectors. Journal of Materials Chemistry C, 2020, 8, 2102-2108.	5.5	43
87	Toward the Growth of High Mobility 2D Transition Metal Dichalcogenide Semiconductors. Advanced Materials Interfaces, 2019, 6, 1900220.	3.7	42
88	2D Cs ₂ AgBiBr ₆ with Boosted Light-Matter Interaction for High-Performance Photodetectors. Advanced Optical Materials, 2021, 9, 2001930.	7.3	42
89	Atomic-Monolayer MoS ₂ Band-to-Band Tunneling Field-Effect Transistor. Small, 2016, 12, 5676-5683.	10.0	41
90	Tailoring NiO Nanostructured Arrays by Sulfate Anions for Sodium-Ion Batteries. Small, 2018, 14, e1800898.	10.0	39

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91	Continuous desalination with a metal-free redox-mediator. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13941-13947.	10.3	38
92	Label-Free Electronic Detection of DNA Using Simple Double-Walled Carbon Nanotube Resistors. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9891-9895.	3.1	37
93	Low-defect-density WS ₂ by hydroxide vapor phase deposition. <i>Nature Communications</i> , 2022, 13, .	12.8	37
94	Base-enhanced electrochemical water oxidation by a nickel complex in neutral aqueous solution. <i>Chemical Communications</i> , 2019, 55, 6122-6125.	4.1	36
95	Unlocking Rapid and Robust Sodium Storage Performance of Zinc-Based Sulfide <i>via</i> Indium Incorporation. <i>ACS Nano</i> , 2021, 15, 8507-8516.	14.6	36
96	Significant photoluminescence enhancement in WS ₂ monolayers through Na ₂ S treatment. <i>Nanoscale</i> , 2018, 10, 6105-6112.	5.6	35
97	Stepwise Intercalation-Conversion-Intercalation Sodiation Mechanism in CuInS ₂ Prompting Sodium Storage Performance. <i>ACS Energy Letters</i> , 2020, 5, 3725-3732.	17.4	33
98	Morphological and Electronic Dual Regulation of Cobalt-Nickel Bimetal Phosphide Heterostructures Inducing High Water-Splitting Performance. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3911-3919.	4.6	33
99	InGaN/GaN nanowires epitaxy on large-area MoS ₂ for high-performance light-emitters. <i>RSC Advances</i> , 2017, 7, 26665-26672.	3.6	32
100	Towards Dendrite-Free Potassium-Metal Batteries: Rational Design of a Multifunctional 3D Polyvinyl Alcohol-Borax Layer. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25122-25127.	13.8	32
101	Excitons in a mirror: Formation of optical bilayers using MoS ₂ monolayers on gold substrates. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	31
102	Efficient red photoluminescence in holmium-doped Cs ₂ NalnCl ₆ double perovskite. <i>Cell Reports Physical Science</i> , 2022, 3, 100820.	5.6	31
103	Work function engineering of electrodes via electropolymerization of ethylenedioxythiophenes and its derivatives. <i>Organic Electronics</i> , 2008, 9, 859-863.	2.6	30
104	Boosting chem-insertion and phys-adsorption in S/N co-doped porous carbon nanospheres for high-performance symmetric Li-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11529-11537.	10.3	30
105	Supramolecular engineering of charge transfer in wide bandgap organic semiconductors with enhanced visible-to-NIR photoresponse. <i>Nature Communications</i> , 2021, 12, 3667.	12.8	30
106	One-Dimensional Organic-Metal Halide with Highly Efficient Warm White-Light Emission and Its Moisture-Induced Structural Transformation. <i>Chemistry of Materials</i> , 2021, 33, 5668-5674.	6.7	30
107	Zinc-Air Battery-Based Desalination Device. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25728-25735.	8.0	29
108	Photocathode-assisted redox flow desalination. <i>Green Chemistry</i> , 2020, 22, 4133-4139.	9.0	29

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109	MoS ₂ Surface Structure Tailoring via Carbonaceous Promoter. <i>Scientific Reports</i> , 2015, 5, 10378.	3.3	28
110	Mechanism investigation of high performance Na ₃ V ₂ (PO ₄) ₂ O ₂ F/reduced graphene oxide cathode for sodium-ion batteries. <i>Journal of Power Sources</i> , 2021, 482, 228906.	7.8	27
111	Poly(3,3'-didodecylquarterthiophene) field effect transistors with single-walled carbon nanotube based source and drain electrodes. <i>Applied Physics Letters</i> , 2007, 91, 223512.	3.3	26
112	Catalyst engineering for lithium ion batteries: the catalytic role of Ge in enhancing the electrochemical performance of SnO ₂ (GeO ₂) _{0.13} /G anodes. <i>Nanoscale</i> , 2014, 6, 15020-15028.	5.6	26
113	Graphene-Au nanoparticle based vertical heterostructures: A novel route towards high-ZT Thermoelectric devices. <i>Nano Energy</i> , 2017, 38, 385-391.	16.0	26
114	Effect of mechanical forces on thermal stability reinforcement for lead based perovskite materials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 540-548.	10.3	26
115	Quantum dot-carbonaceous nanohybrid composites: preparation and application in electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22488-22506.	10.3	26
116	Direct Observation of Perovskite Photodetector Performance Enhancement by Atomically Thin Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36493-36504.	8.0	25
117	Zero-Dimensional Organic-Inorganic Hybrid Copper-Based Halides with Highly Efficient Orange-Red Emission. <i>Small</i> , 2021, 17, e2103831.	10.0	25
118	Photoresponse in Self-Assembled Films of Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13004-13009.	3.1	24
119	Mo _x -coated NbS ₂ nanoflakes grown on glass carbon: an advanced electrocatalyst for the hydrogen evolution reaction. <i>Nanoscale</i> , 2018, 10, 3444-3450.	5.6	24
120	Dendrite-Free Li Metal Plating/Stripping Onto Three-Dimensional Vertical-Graphene@Carbon-Cloth Host. <i>Frontiers in Chemistry</i> , 2019, 7, 714.	3.6	24
121	Chiral Ligand-Induced Structural Transformation of Low-Dimensional Hybrid Perovskite for Circularly Polarized Photodetection. <i>Chemistry of Materials</i> , 2022, 34, 2955-2962.	6.7	24
122	High-efficiency omnidirectional photoresponses based on monolayer lateral p-n heterojunctions. <i>Nanoscale Horizons</i> , 2017, 2, 37-42.	8.0	21
123	High-Concentration Niobium-Substituted WS ₂ Basal Domains with Reconfigured Electronic Band Structure for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34862-34868.	8.0	21
124	Sb nanoparticle decorated rGO as a new anode material in aqueous chloride ion batteries. <i>Nanoscale</i> , 2020, 12, 12268-12274.	5.6	20
125	An Aqueous Rechargeable Fluoride Ion Battery with Dual Fluoride Electrodes. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2419-A2424.	2.9	19
126	High speed capacitive deionization system with flow-through electrodes. <i>Desalination</i> , 2020, 496, 114750.	8.2	19

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127	Recent advances in kinetic optimizations of cathode materials for rechargeable magnesium batteries. <i>Coordination Chemistry Reviews</i> , 2022, 466, 214597.	18.8	19
128	A review on the research progress of tailoring photoluminescence of monolayer transition metal dichalcogenides. <i>FlatChem</i> , 2017, 4, 48-53.	5.6	18
129	Redox-catalysis flow electrode desalination in an organic solvent. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22254-22261.	10.3	18
130	Wafer-scale single-orientation 2D layers by atomic edge-guided epitaxial growth. <i>Chemical Society Reviews</i> , 2022, 51, 803-811.	38.1	18
131	Photoconductivity from Carbon Nanotube Transistors Activated by Photosensitive Polymers. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18201-18206.	3.1	17
132	Effects of precursor pre-treatment on the vapor deposition of WS ₂ monolayers. <i>Nanoscale Advances</i> , 2019, 1, 953-960.	4.6	17
133	Heme-Enabled Electrical Detection of Carbon Monoxide at Room Temperature Using Networked Carbon Nanotube Field-Effect Transistors. <i>Chemistry of Materials</i> , 2007, 19, 6059-6061.	6.7	16
134	Large scale synthesized sulphonated reduced graphene oxide: a high performance material for electrochemical capacitors. <i>RSC Advances</i> , 2013, 3, 14954.	3.6	16
135	PAH contamination in road dust from a moderate city in North China: The significant role of traffic emission. <i>Human and Ecological Risk Assessment (HERA)</i> , 2017, 23, 1072-1085.	3.4	16
136	Location-selective growth of two-dimensional metallic/semiconducting transition metal dichalcogenide heterostructures. <i>Nanoscale</i> , 2019, 11, 4183-4189.	5.6	16
137	High Oxidation Resistance of CVD Graphene-Reinforced Copper Matrix Composites. <i>Nanomaterials</i> , 2019, 9, 498.	4.1	16
138	Lithiophilic Silver Coating on Lithium Metal Surface for Inhibiting Lithium Dendrites. <i>Frontiers in Chemistry</i> , 2020, 8, 109.	3.6	16
139	Photoluminescence Mechanisms of All-Inorganic Cesium Lead Bromide Perovskites Revealed by Single Particle Spectroscopy. <i>ChemNanoMat</i> , 2020, 6, 327-335.	2.8	16
140	A Scalable H ₂ O/DMF/DMSO Solvent Synthesis of Highly Luminescent Inorganic Perovskite-Related Cesium Lead Bromides. <i>Advanced Optical Materials</i> , 2021, 9, 2001435.	7.3	16
141	Synthesis and optoelectronic applications of graphene/transition metal dichalcogenides flat-pack assembly. <i>Carbon</i> , 2018, 127, 602-610.	10.3	15
142	Nanoframes@CNT Beads-on-a-String Structures: Toward an Advanced High-Stable Sodium-Ion Full Battery. <i>Small</i> , 2020, 16, e2005095.	10.0	15
143	Highly Efficient White-Light Emission Triggered by Sb ³⁺ Dopant in Indium-Based Double Perovskites. <i>Advanced Photonics Research</i> , 2021, 2, 2100143.	3.6	15
144	Organic light-emitting diodes with improved hole-electron balance and tunable light emission with aromatic diamine/bathocuproine multiple hole-trapping-layer. <i>Displays</i> , 2006, 27, 166-169.	3.7	14

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145	Fe ₂ O ₃ nanothorns sensitized two-dimensional TiO ₂ nanosheets for highly efficient solar energy conversion. <i>FlatChem</i> , 2017, 3, 1-7.	5.6	14
146	Recent advances of low-dimensional materials in lasing applications. <i>FlatChem</i> , 2018, 10, 22-38.	5.6	14
147	Defective NiFe ₂ O ₄ Nanoparticles for Efficient Urea Electrooxidation. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2796-2801.	3.3	14
148	Harmonic generation in transition metal dichalcogenides and their heterostructures. <i>Materials Today</i> , 2021, 50, 570-586.	14.2	14
149	Surface Charge Transfer Doping Enabled Large Hysteresis in van der Waals Heterostructures for Artificial Synapse. , 2021, 3, 235-242.		14
150	Ultrafast growth of high-quality large-sized GaSe crystals by liquid metal promoter. <i>Nano Research</i> , 2022, 15, 4677-4681.	10.4	14
151	Influence of the Organic Chain on the Optical Properties of Two-Dimensional Organic-Inorganic Hybrid Lead Iodide Perovskites. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2253-2259.	4.3	13
152	Electroluminescent devices based on rare-earth complex TbY(p-MBA) ₆ (phen) ₂ . <i>Journal of Luminescence</i> , 2007, 122-123, 671-673.	3.1	12
153	Dual-mode operation of 2D material-based hot electron transistors. <i>Scientific Reports</i> , 2016, 6, 32503.	3.3	12
154	Template growth of perovskites on yarn fibers induced by capillarity for flexible photoelectric applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9496-9503.	5.5	12
155	High-Performance Photoresistors Based on Perovskite Thin Film with a High PbI ₂ Doping Level. <i>Nanomaterials</i> , 2019, 9, 505.	4.1	12
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