Hong Liu

List of Publications by Year
in descending order

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575 papers	36,469 citations	3525 90 h-index	5532 163 g-index
583 all docs	583 docs citations	583 times ranked	38578 citing authors

#	Article	IF	Citations
1	Applications of 2D MXenes in energy conversion and storage systems. Chemical Society Reviews, 2019, 48, 72-133.	18.7	1,354
2	Synthesis of Fewâ€Layer MoS₂ Nanosheetâ€Coated TiO₂ Nanobelt Heterostructures for Enhanced Photocatalytic Activities. Small, 2013, 9, 140-147.	5.2	1,166
3	Ni3S2 nanorods/Ni foam composite electrode with low overpotential for electrocatalytic oxygen evolution. Energy and Environmental Science, 2013, 6, 2921.	15.6	939
4	Self-Assembled Copperâ€“Amino Acid Nanoparticles for in Situ Glutathione â€œANDâ€• H₂O₂ Sequentially Triggered Chemodynamic Therapy. Journal of the American Chemical Society, 2019, 141, 849-857.	6.6	850
5	Recent progress in design, synthesis, and applications of one-dimensional TiO₂ nanostructured surface heterostructures: a review. Chemical Society Reviews, 2014, 43, 6920-6937.	18.7	726
6	One-step synthesis of Ni₃S₂nanorod@Ni(OH)₂nanosheet coreâ€“shell nanostructures on a three-dimensional graphene network for high-performance supercapacitors. Energy and Environmental Science, 2013, 6, 2216-2221.	15.6	554
7	Hierarchical porous carbon aerogel derived from bagasse for high performance supercapacitor electrode. Nanoscale, 2014, 6, 12120-12129.	2.8	545
8	Graphene-based nitrogen self-doped hierarchical porous carbon aerogels derived from chitosan for high performance supercapacitors. Nano Energy, 2015, 15, 9-23.	8.2	531
9	A Bi₂WO₆â€Based Hybrid Photocatalyst with Broad Spectrum Photocatalytic Properties under UV, Visible, and Nearâ€Infrared Irradiation. Advanced Materials, 2013, 25, 5075-5080.	11.1	530
10	From UV to Nearâ€Infrared, WS₂ Nanosheet: A Novel Photocatalyst for Full Solar Light Spectrum Photodegradation. Advanced Materials, 2015, 27, 363-369.	11.1	494
11	Ag₂O/TiO₂Nanobelts Heterostructure with Enhanced Ultraviolet and Visible Photocatalytic Activity. ACS Applied Materials & Interfaces, 2010, 2, 2385-2392.	4.0	489
12	Dynamic Pressure Mapping of Personalized Handwriting by a Flexible Sensor Matrix Based on the Mechanoluminescence Process. Advanced Materials, 2015, 27, 2324-2331.	11.1	468
13	Enhanced Ferroelectric-Nanocrystal-Based Hybrid Photocatalysis by Ultrasonic-Wave-Generated Piezophototronic Effect. Nano Letters, 2015, 15, 2372-2379.	4.5	428
14	Carbon quantum dots/hydrogenated TiO2 nanobelt heterostructures and their broad spectrum photocatalytic properties under UV, visible, and near-infrared irradiation. Nano Energy, 2015, 11, 419-427.	8.2	416
15	Synthesis of CuO nanostructures and their application for nonenzymatic glucose sensing. Sensors and Actuators B: Chemical, 2010, 144, 220-225.	4.0	375
16	Ultrathin N-Doped Mo₂C Nanosheets with Exposed Active Sites as Efficient Electrocatalyst for Hydrogen Evolution Reactions. ACS Nano, 2017, 11, 12509-12518.	7.3	350
17	Metal Halide Perovskite Nanosheet for X-ray High-Resolution Scintillation Imaging Screens. ACS Nano, 2019, 13, 2520-2525.	7.3	346
18	3D Bi₂MoO₆ Nanosheet/TiO₂ Nanobelt Heterostructure: Enhanced Photocatalytic Activities and Photoelectochemistry Performance. ACS Catalysis, 2015, 5, 4530-4536.	5.5	323

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19	Water Splitting: From Electrode to Green Energy System. Nano-Micro Letters, 2020, 12, 131.	14.4	288
20	Structure, Synthesis, and Applications of TiO₂ Nanobelts. Advanced Materials, 2015, 27, 2557-2582.	11.1	287
21	La(OH)3 and La2O3 Nanobeltsâ€"Synthesis and Physical Properties. Advanced Materials, 2007, 19, 470-474.	11.1	277
22	Enhanced Photocatalytic Performances of CeO₂/TiO₂ Nanobelt Heterostructures. Small, 2013, 9, 3864-3872.	5.2	262
23	MoO2 nanobelts@nitrogen self-doped MoS2 nanosheets as effective electrocatalysts for hydrogen evolution reaction. Journal of Materials Chemistry A, 2014, 2, 11358.	5.2	262
24	Self-Powered Electrical Stimulation for Enhancing Neural Differentiation of Mesenchymal Stem Cells on Grapheneâ€"Poly(3,4-ethylenedioxythiophene) Hybrid Microfibers. ACS Nano, 2016, 10, 5086-5095.	7.3	249
25	Flexible Electronics Based on Micro/Nanostructured Paper. Advanced Materials, 2018, 30, e1801588.	11.1	249
26	Silver nanoparticle-decorated porous ceramic composite for water treatment. Journal of Membrane Science, 2009, 331, 50-56.	4.1	247
27	Nanostructured Sheets of Tï£¿O Nanobelts for Gas Sensing and Antibacterial Applications. Advanced Functional Materials, 2008, 18, 1131-1137.	7.8	245
28	Enhanced catalytic performance by multi-field coupling in KNbO3 nanostructures: Piezo-photocatalytic and ferro-photoelectrochemical effects. Nano Energy, 2019, 58, 695-705.	8.2	240
29	A Photoresponsive Rutile TiO₂ Heterojunction with Enhanced Electronâ€"Hole Separation for Highâ€Performance Hydrogen Evolution. Advanced Materials, 2019, 31, e1806596.	11.1	240
30	Three-Dimensional Hierarchical Frameworks Based on MoS₂ Nanosheets Self-Assembled on Graphene Oxide for Efficient Electrocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2014, 6, 21534-21540.	4.0	235
31	Engineering the Absorption and Field Enhancement Properties of Auâ€"TiO₂ Nanohybrids via Whispering Gallery Mode Resonances for Photocatalytic Water Splitting. ACS Nano, 2016, 10, 4496-4503.	7.3	230
32	Paper-Based Electrochemical Sensing Platform with Integral Battery and Electrochromic Read-Out. Analytical Chemistry, 2012, 84, 2528-2532.	3.2	219
33	Fullâ€Spectrum Solarâ€Lightâ€Activated Photocatalysts for Lightâ€"Chemical Energy Conversion. Advanced Energy Materials, 2017, 7, 1700473.	10.2	213
34	One-dimensional single-crystalline Tiâ€"O based nanostructures: properties, synthesis, modifications and applications. Journal of Materials Chemistry, 2010, 20, 5993.	6.7	195
35	Composite-Hydroxide-Mediated Approach for the Synthesis of Nanostructures of Complex Functional-Oxides. Nano Letters, 2006, 6, 1535-1540.	4.5	194
36	Heterostructures construction on TiO2 nanobelts: A powerful tool for building high-performance photocatalysts. Applied Catalysis B: Environmental, 2017, 202, 620-641.	10.8	194

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37	Ultrathin MoO 3 nanocrystalsself-assembled on graphene nanosheets via oxygen bonding as supercapacitor electrodes of high capacitance and long cycle life. Nano Energy, 2015, 12, 510-520.	8.2	192
38	One-step synthesis of CdS nanoparticles/MoS 2 nanosheets heterostructure on porous molybdenum sheet for enhanced photocatalytic H 2 evolution. Applied Catalysis B: Environmental, 2017, 210, 290-296.	10.8	192
39	Enhancement of Ethanol Vapor Sensing of TiO₂ Nanobelts by Surface Engineering. ACS Applied Materials & Interfaces, 2010, 2, 3263-3269.	4.0	188
40	Development of Conductive Hydrogels for Fabricating Flexible Strain Sensors. Small, 2022, 18, e2101518.	5.2	188
41	Enhancing the electrochemical performance of lithium ion batteries using mesoporous Li3V2(PO4)3/C microspheres. Journal of Materials Chemistry, 2012, 22, 5960.	6.7	176
42	Solâ€“gel preparation of transparent zinc oxide films with highly preferential crystal orientation. Vacuum, 2004, 77, 57-62.	1.6	173
43	Highly Morphologyâ€Controllable and Highly Sensitive Capacitive Tactile Sensor Based on Epidermisâ€Dermisâ€Inspired Interlocked Asymmetricâ€Nanocone Arrays for Detection of Tiny Pressure. Small, 2020, 16, e1904774.	5.2	166
44	Structure, Conductivity, and Thermopower of Crystalline Polyaniline Synthesized by the Ultrasonic Irradiation Polymerization Method. Macromolecules, 2002, 35, 9414-9419.	2.2	165
45	Sulfur and nitrogen self-doped carbon nanosheets derived from peanut root nodules as high-efficiency non-metal electrocatalyst for hydrogen evolution reaction. Nano Energy, 2015, 16, 357-366.	8.2	162
46	Direct synthesis and structure characterization of ultrafine CeO2nanoparticles. Nanotechnology, 2006, 17, 5983-5987.	1.3	159
47	Photocatalysis from UV/Vis to Nearâ€Infrared Light: Towards Full Solarâ€Light Spectrum Activity. ChemCatChem, 2015, 7, 559-573.	1.8	148
48	Confined distribution of platinum clusters on MoO2 hexagonal nanosheets with oxygen vacancies as a high-efficiency electrocatalyst for hydrogen evolution reaction. Nano Energy, 2019, 62, 127-135.	8.2	143
49	Nanoheterostructures on TiO2 nanobelts achieved by acid hydrothermal method with enhanced photocatalytic and gas sensitive performance. Journal of Materials Chemistry, 2011, 21, 7937.	6.7	142
50	Metallic Ni3Mo3N Porous Microrods with Abundant Catalytic Sites as Efficient Electrocatalyst for Large Current Density and Superstability of Hydrogen Evolution Reaction and Water Splitting. Applied Catalysis B: Environmental, 2020, 272, 118956.	10.8	138
51	NiOâ€“TiO2 pâ€“n heterostructured nanocables bridged by zero-bandgap rGO for highly efficient photocatalytic water splitting. Nano Energy, 2015, 16, 207-217.	8.2	136
52	Gold and goldâ€“palladium alloy nanoparticles on heterostructured TiO₂nanobelts as plasmonic photocatalysts for benzyl alcohol oxidation. Nanoscale, 2015, 7, 209-217.	2.8	136
53	In2S3 nanomaterial as a broadband spectrum photocatalyst to display significant activity. Applied Catalysis B: Environmental, 2015, 176-177, 83-90.	10.8	135
54	Few-layered MoS₂ nanosheets wrapped ultrafine TiO₂ nanobelts with enhanced photocatalytic property. Nanoscale, 2016, 8, 6101-6109.	2.8	131

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55	Enhanced Photocatalytic Property of Reduced Graphene Oxide/TiO₂ Nanobelt Surface Heterostructures Constructed by an In Situ Photochemical Reduction Method. Small, 2014, 10, 3775-3782.	5.2	130
56	Ni@NiO Nanowires on Nickel Foam Prepared via â€œAcid Hungryâ€•Strategy: High Supercapacitor Performance and Robust Electrocatalysts for Water Splitting Reaction. Small, 2018, 14, e1800294.	5.2	130
57	Regulating the vertical phase distribution by fullerene-derivative in high performance ternary organic solar cells. Nano Energy, 2018, 46, 81-90.	8.2	129
58	Photoluminescence Origin of Zero-Dimensional Cs₄PbBr₆ Perovskite. ACS Energy Letters, 2020, 5, 87-99.	8.8	128
59	Construction of a 3D rGOâ€“collagen hybrid scaffold for enhancement of the neural differentiation of mesenchymal stem cells. Nanoscale, 2016, 8, 1897-1904.	2.8	127
60	Surface modification and functionalization of silk fibroin fibers/fabric toward high performance applications. Materials Science and Engineering C, 2012, 32, 627-636.	3.8	126
61	Promotion of Overall Water Splitting Activity Over a Wide pH Range by Interfacial Electrical Effects of Metallic NiCoâ€nitrides Nanoparticle/NiCo₂O₄ Nanoflake/graphite Fibers. Advanced Science, 2019, 6, 1801829.	5.6	122
62	Ultrasensitive Physical, Bio, and Chemical Sensors Derived from 1â€, 2â€, and 3â€Ð Nanocellulosic Materials. Small, 2020, 16, e1906567.	5.2	122
63	Chemical assembly of TiO2 and TiO2@Ag nanoparticles on silk fiber to produce multifunctional fabrics. Journal of Colloid and Interface Science, 2011, 358, 307-315.	5.0	120
64	WSe₂ 2D pâ€type semiconductorâ€based electronic devices for information technology: Design, preparation, and applications. InformaÄ•nÃ-MateriÃ¡ly, 2020, 2, 656-697.	8.5	115
65	Nano-pâ€“n junctions on surface-coarsened TiO2 nanobelts with enhanced photocatalytic activity. Journal of Materials Chemistry, 2011, 21, 5106.	6.7	114
66	Multifunctional Carbonâ€“Silica Nanocapsules with Gold Core for Synergistic Photothermal and Chemoâ€Cancer Therapy under the Guidance of Bimodal Imaging. Advanced Functional Materials, 2016, 26, 4252-4261.	7.8	113
67	Tunable Layered (Na,Mn)V₈O₂₀Â·nH₂O Cathode Material for Highâ€Performance Aqueous Zinc Ion Batteries. Advanced Science, 2020, 7, 2000083.	5.6	113
68	Ruâ€“Ru₂PÎ¦NPC and NPC@RuO₂ Synthesized via Environmentâ€Friendly and Solidâ€Phase Phosphating Process by Saccharomycetes as N/P Sources and Carbon Template for Overall Water Splitting in Acid Electrolyte. Advanced Functional Materials, 2019, 29, 1901154.	7.8	112
69	High-Performance Symmetric Supercapacitor Constructed Using Carbon Cloth Boosted by Engineering Oxygen-Containing Functional Groups. ACS Applied Materials & Interfaces, 2019, 11, 18044-18050.	4.0	110
70	Synthesis of scaly Sn₃O₄/TiO₂nanobelt heterostructures for enhanced UV-visible light photocatalytic activity. Nanoscale, 2015, 7, 3117-3125.	2.8	108
71	TiO₂@Carbon Photocatalysts: The Effect of Carbon Thickness on Catalysis. ACS Applied Materials & Interfaces, 2016, 8, 1903-1912.	4.0	108
72	Phase transformation of TiO2 nanobelts and TiO2(B)/anatase interface heterostructure nanobelts with enhanced photocatalytic activity. CrystEngComm, 2011, 13, 6643.	1.3	107

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73	Hierarchical TiO2 nanowire/graphite fiber photoelectrocatalysis setup powered by a wind-driven nanogenerator: A highly efficient photoelectrocatalytic device entirely based on renewable energy. Nano Energy, 2015, 11, 19-27.	8.2	107
74	Oneâ€Ðimensional Ferroelectric Nanostructures: Synthesis, Properties, and Applications. Advanced Science, 2016, 3, 1500358.	5.6	107
75	Ni-Co-N hybrid porous nanosheets on graphene paper for flexible and editable asymmetric all-solid-state supercapacitors. Nano Energy, 2019, 61, 18-26.	8.2	107
76	Zinc oxide films prepared by solâ€“gel method. Journal of Crystal Growth, 2005, 275, e943-e946.	0.7	104
77	Effects of Graphene Quantum Dots on the Selfâ€Renewal and Differentiation of Mesenchymal Stem Cells. Advanced Healthcare Materials, 2016, 5, 702-710.	3.9	103
78	Molybdenum carbide on hierarchical porous carbon synthesized from Cu-MoO2 as efficient electrocatalysts for electrochemical hydrogen generation. Nano Energy, 2017, 41, 749-757.	8.2	103
79	Synthesis of Bi2Se3 thermoelectric nanosheets and nanotubes through hydrothermal co-reduction method. Journal of Solid State Chemistry, 2004, 177, 4001-4006.	1.4	102
80	Cobaltâ€“Cobalt Phosphide Nanoparticles@Nitrogenâ€Phosphorus Doped Carbon/Graphene Derived from Cobalt Ions Adsorbed Saccharomycete Yeasts as an Efficient, Stable, and Largeâ€Currentâ€Ðensity Electrode for Hydrogen Evolution Reactions. Advanced Functional Materials, 2018, 28, 1801332.	7.8	102
81	Encapsulation of a Phaseâ€Change Material in Nanocapsules with a Wellâ€Ðefined Hole in the Wall for the Controlled Release of Drugs. Angewandte Chemie - International Edition, 2019, 58, 10606-10611.	7.2	102
82	Oxygen-incorporated MoX (X: S, Se or P) nanosheets via universal and controlled electrochemical anodic activation for enhanced hydrogen evolution activity. Nano Energy, 2019, 62, 338-347.	8.2	102
83	1D Niâ€“Co oxide and sulfide nanoarray/carbon aerogel hybrid nanostructures for asymmetric supercapacitors with high energy density and excellent cycling stability. Nanoscale, 2016, 8, 16292-16301.	2.8	101
84	Suppressing Photoinduced Charge Recombination via the Lorentz Force in a Photocatalytic System. Advanced Science, 2019, 6, 1901244.	5.6	101
85	Engineered Microstructure Derived Hierarchical Deformation of Flexible Pressure Sensor Induces a Supersensitive Piezoresistive Property in Broad Pressure Range. Advanced Science, 2020, 7, 2000154.	5.6	100
86	The hybrid nanostructure of MnCo₂O_{4.5} nanoneedle/carbon aerogel for symmetric supercapacitors with high energy density. Nanoscale, 2015, 7, 14401-14412.	2.8	99
87	Hierarchical microsphere of MoNi porous nanosheets as electrocatalyst and cocatalyst for hydrogen evolution reaction. Applied Catalysis B: Environmental, 2019, 249, 98-105.	10.8	98
88	Biopolymer/Calcium Phosphate Scaffolds for Bone Tissue Engineering. Advanced Healthcare Materials, 2014, 3, 469-484.	3.9	97
89	Microenvironment-Driven Bioelimination of Magnetoplasmonic Nanoassemblies and Their Multimodal Imaging-Guided Tumor Photothermal Therapy. ACS Nano, 2016, 10, 7094-7105.	7.3	97
90	Graphene Nanostructure-Based Tactile Sensors for Electronic Skin Applications. Nano-Micro Letters, 2019, 11, 71.	14.4	97

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91	Metallic Intermediate Phase Inducing Morphological Transformation in Thermal Nitridation: Ni₃FeN-Based Three-Dimensional Hierarchical Electrocatalyst for Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 3699-3706.	4.0	96
92	Iron oxide embedded titania nanowires â€“ An active and stable electrocatalyst for oxygen evolution in acidic media. Nano Energy, 2018, 45, 118-126.	8.2	95
93	Lignosulphonate-cellulose derived porous activated carbon for supercapacitor electrode. Journal of Materials Chemistry A, 2015, 3, 15049-15056.	5.2	93
94	YAG:Ce nano-sized phosphor particles prepared by a solvothermal method. Materials Research Bulletin, 2004, 39, 1923-1930.	2.7	92
95	Enhanced Performance of Layered Titanate Nanowire-Based Supercapacitor Electrodes by Nickel Ion Exchange. ACS Applied Materials & Interfaces, 2014, 6, 4578-4586.	4.0	92
96	Polylactic Acid Nanopillar Array-Driven Osteogenic Differentiation of Human Adipose-Derived Stem Cells Determined by Pillar Diameter. Nano Letters, 2018, 18, 2243-2253.	4.5	92
97	An Ultrarobust and Highâ€Performance Rotational Hydrodynamic Triboelectric Nanogenerator Enabled by Automatic Mode Switching and Charge Excitation. Advanced Materials, 2022, 34, e2105882.	11.1	92
98	Flexible wire-like all-carbon supercapacitors based on porous coreâ€“shell carbon fibers. Journal of Materials Chemistry A, 2014, 2, 7250-7255.	5.2	91
99	Hydrogenated TiO2 nanobelts as highly efficient photocatalytic organic dye degradation and hydrogen evolution photocatalyst. Journal of Hazardous Materials, 2015, 299, 165-173.	6.5	89
100	Microstructure and domain engineering of lithium niobate crystal films for integrated photonic applications. Light: Science and Applications, 2020, 9, 197.	7.7	89
101	Nonoxidized MXene Quantum Dots Prepared by Microexplosion Method for Cancer Catalytic Therapy. Advanced Functional Materials, 2020, 30, 2000308.	7.8	87
102	Microwave-assisted hydrothermal synthesis of Sn3O4 nanosheet/rGO planar heterostructure for efficient photocatalytic hydrogen generation. Applied Catalysis B: Environmental, 2018, 227, 470-476.	10.8	86
103	Photosensitization of TiO2 nanorods with CdS quantum dots for photovoltaic applications: A wet-chemical approach. Nano Energy, 2012, 1, 440-447.	8.2	85
104	Preparation of cellulose fiberâ€“TiO2 nanobeltâ€“silver nanoparticle hierarchically structured hybrid paper and its photocatalytic and antibacterial properties. Chemical Engineering Journal, 2013, 228, 272-280.	6.6	85
105	Conversion of solar power to chemical energy based on carbon nanoparticle modified photo-thermoelectric generator and electrochemical water splitting system. Nano Energy, 2018, 48, 481-488.	8.2	85
106	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. Applied Catalysis B: Environmental, 2020, 277, 119236.	10.8	85
107	Bone repair by periodontal ligament stem cell-seeded nanohydroxyapatite-chitosan scaffold. International Journal of Nanomedicine, 2012, 7, 5405.	3.3	83
108	Realization of Low Latent Heat of a Solar Evaporator via Regulating the Water State in Wood Channels. ACS Applied Materials & Interfaces, 2020, 12, 18504-18511.	4.0	83

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109	Ni-Ni3P 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. Applied Catalysis B: Environmental, 2020, 261, 118147.	10.8	82
110	Coreâ€“shell structured Fe3O4/PANI microspheres and their Cr(VI) ion removal properties. Synthetic Metals, 2013, 171, 1-6.	2.1	80
111	Fluorescent graphene quantum dots as traceable, pH-sensitive drug delivery systems. International Journal of Nanomedicine, 2015, 10, 6709.	3.3	79
112	Surface Charge Regulation of Osteogenic Differentiation of Mesenchymal Stem Cell on Polarized Ferroelectric Crystal Substrate. Advanced Healthcare Materials, 2015, 4, 998-1003.	3.9	79
113	In Vivo Tumor Visualization through MRI Offâ€On Switching of NaGdF₄â€“CaCO₃ Nanoconjugates. Advanced Materials, 2019, 31, e1901851.	11.1	79
114	A three-dimensional multilevel nanoporous NiCoO₂/Ni hybrid for highly reversible electrochemical energy storage. Journal of Materials Chemistry A, 2019, 7, 16222-16230.	5.2	77
115	Charge Redistribution Caused by S,P Synergistically Active Ru Endows an Ultrahigh Hydrogen Evolution Activity of Sâ€Doped RuP Embedded in N,P,Sâ€Doped Carbon. Advanced Science, 2020, 7, 2001526.	5.6	77
116	Preparation of highly dispersed YAG nano-sized powder by co-precipitation method. Materials Letters, 2006, 60, 962-965.	1.3	76
117	Composite-hydroxide-mediated approach as a general methodology for synthesizing nanostructures. Journal of Materials Chemistry, 2009, 19, 858.	6.7	75
118	Synthesis of monodisperse and spherical YAG nanopowder by a mixed solvothermal method. Journal of Alloys and Compounds, 2004, 372, 300-303.	2.8	74
119	A 2,7-carbazole-based dicationic salt for fluorescence detection of nucleic acids and two-photon fluorescence imaging of RNA in nucleoli and cytoplasm. Organic and Biomolecular Chemistry, 2011, 9, 3615.	1.5	74
120	BaTiO3 nanocrystal-mediated micro pseudo-electrochemical cells with ultrasound-driven piezotronic enhancement for polymerization. Nano Energy, 2017, 39, 461-469.	8.2	74
121	In VitroAssessment of the Differentiation Potential of Bone Marrow-Derived Mesenchymal Stem Cells on Genipin-Chitosan Conjugation Scaffold with Surface Hydroxyapatite Nanostructure for Bone Tissue Engineering. Tissue Engineering - Part A, 2011, 17, 1341-1349.	1.6	73
122	Electrochemical Flocculation Integrated Hydrogen Evolution Reaction of Fe@Nâ€Doped Carbon Nanotubes on Iron Foam for Ultralow Voltage Electrolysis in Neutral Media. Advanced Science, 2019, 6, 1901458.	5.6	73
123	1319 nm and 1338 nm dual-wavelength operation of LD end-pumped Nd:YAG ceramic laser. Optics Express, 2010, 18, 9098.	1.7	72
124	High-Energy Faceted SnO₂-Coated TiO₂ Nanobelt Heterostructure for Near-Ambient Temperature-Responsive Ethanol Sensor. ACS Applied Materials & Interfaces, 2015, 7, 24950-24956.	4.0	72
125	Cr(vi), Pb(ii), Cd(ii) adsorption properties of nanostructured BiOBr microspheres and their application in a continuous filtering removal device for heavy metal ions. Journal of Materials Chemistry A, 2014, 2, 2599.	5.2	71
126	Hydroxyapatite nanobelt/polylactic acid Janus membrane with osteoinduction/barrier dual functions for precise bone defect repair. Acta Biomaterialia, 2018, 71, 108-117.	4.1	71

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127	Band structure engineering of bioinspired Fe doped SrMoO4 for enhanced photocatalytic nitrogen reduction performance. Nano Energy, 2019, 66, 104187.	8.2	71
128	Hierarchical hybrid nanostructures of Sn₃O₄ on N doped TiO₂ nanotubes with enhanced photocatalytic performance. Journal of Materials Chemistry A, 2015, 3, 19129-19136.	5.2	70
129	High yield production of reduced TiO2 with enhanced photocatalytic activity. Applied Surface Science, 2016, 360, 738-743.	3.1	70
130	Partial Nitridationâ€Induced Electrochemistry Enhancement of Ternary Oxide Nanosheets for Fiber Energy Storage Device. Advanced Energy Materials, 2018, 8, 1800685.	10.2	70
131	A simple gas sensor based on zinc ferrite hollow spheres: Highly sensitivity, excellent selectivity and long-term stability. Sensors and Actuators B: Chemical, 2019, 280, 34-40.	4.0	70
132	Microâ€Nanostructured Interface for Liquid Manipulation and Its Applications. Small, 2020, 16, e1903849.	5.2	70
133	Potential of MXene-Based Heterostructures for Energy Conversion and Storage. ACS Energy Letters, 2022, 7, 78-96.	8.8	69
134	Fabricating high-energy quantum dots in ultra-thin LiFePO₄nanosheets using a multifunctional high-energy biomoleculeâ€”ATP. Energy and Environmental Science, 2014, 7, 2285-2294.	15.6	68
135	Energy-efficient, fully flexible, high-performance tactile sensor based on piezotronic effect: Piezoelectric signal amplified with organic field-effect transistors. Nano Energy, 2020, 76, 105050.	8.2	68
136	Manipulation of charge transfer in vertically aligned epitaxial ferroelectric KNbO3 nanowire array photoelectrodes. Nano Energy, 2017, 35, 92-100.	8.2	67
137	Graphene microfiber as a scaffold for regulation of neural stem cells differentiation. Scientific Reports, 2017, 7, 5678.	1.6	67
138	Rutile Nanorod/Anatase Nanowire Junction Array as Both Sensor and Power Supplier for Highâ€Performance, Selfâ€Powered, Wireless UV Photodetector. Small, 2016, 12, 2759-2767.	5.2	66
139	Structure-dependent electrode properties of hollow carbon micro-fibers derived from Platanus fruit and willow catkins for high-performance supercapacitors. Journal of Materials Chemistry A, 2017, 5, 2580-2591.	5.2	66
140	Designing a bioinspired synthetic tree by unidirectional freezing for simultaneous solar steam generation and salt collection. EcoMat, 2020, 2, e12018.	6.8	65
141	Graphene oxide-reinforced biodegradable genipin-cross-linked chitosan fluorescent biocomposite film and its cytocompatibility. International Journal of Nanomedicine, 2013, 8, 3415.	3.3	64
142	Hierarchical porous carbon with ordered straight micro-channels templated by continuous filament glass fiber arrays for high performance supercapacitors. Journal of Materials Chemistry A, 2017, 5, 1516-1525.	5.2	62
143	Synthesis of Monodispersed Spherical Yttrium Aluminum Garnet (<scp>YAG</scp>) Powders by a Homogeneous Precipitation Method. Journal of the American Ceramic Society, 2012, 95, 3821-3826.	1.9	61
144	PdO/TiO₂ and Pd/TiO₂ Heterostructured Nanobelts with Enhanced Photocatalytic Activity. Chemistry - an Asian Journal, 2014, 9, 1648-1654.	1.7	61

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145	Enhanced gas sensing property of SnO2 nanoparticles by constructing the SnO2â€“TiO2 nanobelt heterostructure. Journal of Alloys and Compounds, 2015, 639, 571-576.	2.8	61
146	Morphology and electronic structure modulation induced by fluorine doping in nickel-based heterostructures for robust bifunctional electrocatalysis. Nanoscale, 2018, 10, 20384-20392.	2.8	61
147	Calcium ion pinned vanadium oxide cathode for high-capacity and long-life aqueous rechargeable zinc-ion batteries. Science China Chemistry, 2020, 63, 1767-1776.	4.2	61
148	Multi-interface collaboration of graphene cross-linked NiS-NiS2-Ni3S4 polymorph foam towards robust hydrogen evolution in alkaline electrolyte. Nano Research, 2021, 14, 4857-4864.	5.8	61
149	Applications of 2D-Layered Palladium Diselenide and Its van der Waals Heterostructures in Electronics and Optoelectronics. Nano-Micro Letters, 2021, 13, 143.	14.4	61
150	Carbon-nanosphere-supported Pt nanoparticles for methanol and ethanol electro-oxidation in alkaline media. Journal of Power Sources, 2011, 196, 1904-1908.	4.0	60
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