Hongwei Zhu

List of Publications by Year
in descending order

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364	29,782	4370 86	5806 161
papers	citations	h-index	g-index

370	370	370	32413
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carbon Nanotube Sponges. Advanced Materials, 2010, 22, 617-621.	11.1	1,380
2	Grapheneâ€Onâ€Silicon Schottky Junction Solar Cells. Advanced Materials, 2010, 22, 2743-2748.	11.1	1,042
3	Wearable and Highly Sensitive Graphene Strain Sensors for Human Motion Monitoring. Advanced Functional Materials, 2014, 24, 4666-4670.	7.8	923
4	Hydrothermal Synthesis and Pseudocapacitance Properties of MnO2Nanostructures. Journal of Physical Chemistry B, 2005, 109, 20207-20214.	1.2	903
5	Adsorption of methylene blue from aqueous solution by graphene. Colloids and Surfaces B: Biointerfaces, 2012, 90, 197-203.	2.5	635
6	Selective Ion Penetration of Graphene Oxide Membranes. ACS Nano, 2013, 7, 428-437.	7.3	635
7	Two-dimensional MoS2: Properties, preparation, and applications. Journal of Materiomics, 2015, 1, 33-44.	2.8	597
8	Recent advances in wearable tactile sensors: Materials, sensing mechanisms, and device performance. Materials Science and Engineering Reports, 2017, 115, 1-37.	14.8	557
9	Recent Developments in Grapheneâ€Based Membranes: Structure, Massâ€Transport Mechanism and Potential Applications. Advanced Materials, 2016, 28, 2287-2310.	11.1	540
10	Stretchable and highly sensitive graphene-on-polymer strain sensors. Scientific Reports, 2012, 2, 870.	1.6	517
11	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. Applied Physics Reviews, 2017, 4, .	5.5	476
12	Hydrogen Uptake in Boron Nitride Nanotubes at Room Temperature. Journal of the American Chemical Society, 2002, 124, 7672-7673.	6.6	424
13	Role of Interfacial Oxide in High-Efficiency Grapheneâ€“Silicon Schottky Barrier Solar Cells. Nano Letters, 2015, 15, 2104-2110.	4.5	404
14	High Detectivity Grapheneâ€Silicon Heterojunction Photodetector. Small, 2016, 12, 595-601.	5.2	370
15	Engineering graphene and TMDs based van der Waals heterostructures for photovoltaic and photoelectrochemical solar energy conversion. Chemical Society Reviews, 2018, 47, 4981-5037.	18.7	344
16	Highly Sensitive, Wearable, Durable Strain Sensors and Stretchable Conductors Using Graphene/Silicon Rubber Composites. Advanced Functional Materials, 2016, 26, 7614-7625.	7.8	339
17	Nanostructured MnO2: Hydrothermal synthesis and electrochemical properties as a supercapacitor electrode material. Journal of Power Sources, 2006, 159, 361-364.	4.0	336
18	Selective Trans-Membrane Transport of Alkali and Alkaline Earth Cations through Graphene Oxide Membranes Based on Cationâ^'Ï€ Interactions. ACS Nano, 2014, 8, 850-859.	7.3	333

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19	Graphene Reinforced Carbon Nanotube Networks for Wearable Strain Sensors. Advanced Functional Materials, 2016, 26, 2078-2084.	7.8	328
20	Largeâ€Area Ultrathin Graphene Films by Singleâ€Step Marangoni Selfâ€Assembly for Highly Sensitive Strain Sensing Application. Advanced Functional Materials, 2016, 26, 1322-1329.	7.8	326
21	Recent advances in transition-metal-sulfide-based bifunctional electrocatalysts for overall water splitting. Journal of Materials Chemistry A, 2021, 9, 5320-5363.	5.2	322
22	Applications of carbon materials in photovoltaic solar cells. Solar Energy Materials and Solar Cells, 2009, 93, 1461-1470.	3.0	318
23	The physics and chemistry of graphene-on-surfaces. Chemical Society Reviews, 2017, 46, 4417-4449.	18.7	309
24	Colloidal Antireflection Coating Improves Grapheneâ€“Silicon Solar Cells. Nano Letters, 2013, 13, 1776-1781.	4.5	303
25	Core-Double-Shell, Carbon Nanotube@Polypyrrole@MnO₂ Sponge as Freestanding, Compressible Supercapacitor Electrode. ACS Applied Materials & Interfaces, 2014, 6, 5228-5234.	4.0	298
26	Recyclable carbon nanotube sponges for oil absorption. Acta Materialia, 2011, 59, 4798-4804.	3.8	276
27	Adsorption of fluoride from aqueous solution by graphene. Journal of Colloid and Interface Science, 2011, 363, 348-354.	5.0	271
28	A Wearable and Highly Sensitive Graphene Strain Sensor for Precise Home-Based Pulse Wave Monitoring. ACS Sensors, 2017, 2, 967-974.	4.0	260
29	Tactile Sensing System Based on Arrays of Graphene Woven Microfabrics: Electromechanical Behavior and Electronic Skin Application. ACS Nano, 2015, 9, 10867-10875.	7.3	258
30	Structural engineering of gold thin films with channel cracks for ultrasensitive strain sensing. Materials Horizons, 2016, 3, 248-255.	6.4	249
31	Tribological properties of oleic acid-modified graphene as lubricant oil additives. Journal Physics D: Applied Physics, 2011, 44, 205303.	1.3	232
32	Achieving High Efficiency Silicon-Carbon Nanotube Heterojunction Solar Cells by Acid Doping. Nano Letters, 2011, 11, 1901-1905.	4.5	230
33	Recent advances in friction and lubrication of graphene and other 2D materials: Mechanisms and applications. Friction, 2019, 7, 199-216.	3.4	227
34	Soft, Highly Conductive Nanotube Sponges and Composites with Controlled Compressibility. ACS Nano, 2010, 4, 2320-2326.	7.3	219
35	Graphene/Silicon Nanowire Schottky Junction for Enhanced Light Harvesting. ACS Applied Materials & Interfaces, 2011, 3, 721-725.	4.0	214
36	Superâ€Stretchable Springâ€Like Carbon Nanotube Ropes. Advanced Materials, 2012, 24, 2896-2900.	11.1	193

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37	Graphene sheets from worm-like exfoliated graphite. Journal of Materials Chemistry, 2009, 19, 3367.	6.7	189
38	Equilibrium, kinetic and thermodynamic studies on the adsorption of phenol onto graphene. Materials Research Bulletin, 2012, 47, 1898-1904.	2.7	185
39	Directly Drawing Self-Assembled, Porous, and Monolithic Graphene Fiber from Chemical Vapor Deposition Grown Graphene Film and Its Electrochemical Properties. Langmuir, 2011, 27, 12164-12171.	1.6	179
40	Graphene/polyaniline woven fabric composite films as flexible supercapacitor electrodes. Nanoscale, 2015, 7, 7318-7322.	2.8	175
41	Boron Doping of Graphene for Grapheneâ€“Silicon pâ€“n Junction Solar Cells. Advanced Energy Materials, 2012, 2, 425-429.	10.2	169
42	Effect of different gel electrolytes on graphene-based solid-state supercapacitors. RSC Advances, 2014, 4, 36253-36256.	1.7	163
43	Longâ€Cycle Electrochemical Behavior of Multiwall Carbon Nanotubes Synthesized on Stainless Steel in Li Ion Batteries. Advanced Functional Materials, 2009, 19, 1008-1014.	7.8	159
44	Carbon/Silicon Heterojunction Solar Cells: State of the Art and Prospects. Advanced Materials, 2015, 27, 6549-6574.	11.1	159
45	Multifunctional graphene woven fabrics. Scientific Reports, 2012, 2, 395.	1.6	156
46	Flexible all solid-state supercapacitors based on chemical vapor deposition derived graphene fibers. Physical Chemistry Chemical Physics, 2013, 15, 17752.	1.3	156
47	Graphene/semiconductor heterojunction solar cells with modulated antireflection and graphene work function. Energy and Environmental Science, 2013, 6, 108-115.	15.6	154
48	Single-layer nanosheets with exceptionally high and anisotropic hydroxyl ion conductivity. Science Advances, 2017, 3, e1602629.	4.7	154
49	Cobalt and nickel selenide nanowalls anchored on graphene as bifunctional electrocatalysts for overall water splitting. Journal of Materials Chemistry A, 2016, 4, 14789-14795.	5.2	150
50	Ultra-sensitive graphene strain sensor for sound signal acquisition and recognition. Nano Research, 2015, 8, 1627-1636.	5.8	149
51	Alcohol-assisted room temperature synthesis of different nanostructured manganese oxides and their pseudocapacitance properties in neutral electrolyte. Chemical Physics Letters, 2008, 453, 242-249.	1.2	148
52	TiO2-Coated Carbon Nanotube-Silicon Solar Cells with Efficiency of 15%. Scientific Reports, 2012, 2, 884.	1.6	141
53	Ion doping of graphene for high-efficiency heterojunction solar cells. Nanoscale, 2013, 5, 1945.	2.8	136
54	Enhancing Capacitance Performance of Ti3C2Tx MXene as Electrode Materials of Supercapacitor: From Controlled Preparation to Composite Structure Construction. Nano-Micro Letters, 2020, 12, 77.	14.4	136

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55	Broadband Graphene Saturable Absorber for Pulsed Fiber Lasers at 1, 1.5, and 2 Î¼m. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 411-415.	1.9	133
56	Scalable Low-Band-Gap Sb₂Se₃ Thin-Film Photocathodes for Efficient Visibleâ€“Near-Infrared Solar Hydrogen Evolution. ACS Nano, 2017, 11, 12753-12763.	7.3	127
57	Graphene Nano-â€œpatchesâ€•on a Carbon Nanotube Network for Highly Transparent/Conductive Thin Film Applications. Journal of Physical Chemistry C, 2010, 114, 14008-14012.	1.5	125
58	Simultaneous High Sensitivity Sensing of Temperature and Humidity with Graphene Woven Fabrics. ACS Applied Materials & Interfaces, 2017, 9, 30171-30176.	4.0	122
59	Flexible, temperature-tolerant supercapacitor based on hybrid carbon film electrodes. Nano Energy, 2017, 40, 224-232.	8.2	121
60	Graphene: Fundamental research and potential applications. FlatChem, 2017, 4, 20-32.	2.8	120
61	Ultrasensitive and Stretchable Strain Sensors Based on Mazelike Vertical Graphene Network. ACS Applied Materials & Interfaces, 2018, 10, 36312-36322.	4.0	116
62	High Rate Reversibility Anode Materials of Lithium Batteries from Vapor-Grown Carbon Nanofibers. Journal of Physical Chemistry B, 2006, 110, 7178-7183.	1.2	115
63	Carbon nanotube-polypyrrole core-shell sponge and its application as highly compressible supercapacitor electrode. Nano Research, 2014, 7, 209-218.	5.8	115
64	Three-dimensional porous graphene sponges assembled with the combination of surfactant and freeze-drying. Nano Research, 2014, 7, 1477-1487.	5.8	111
65	Formation of Uniform Water Microdroplets on Wrinkled Graphene for Ultrafast Humidity Sensing. Small, 2018, 14, e1703848.	5.2	109
66	High-Response Room-Temperature NO₂ Sensor and Ultrafast Humidity Sensor Based on SnO₂ with Rich Oxygen Vacancy. ACS Applied Materials & Interfaces, 2019, 11, 13441-13449.	4.0	108
67	Carbon nanotube filaments in household light bulbs. Applied Physics Letters, 2004, 84, 4869-4871.	1.5	105
68	Graphene oxide-in-polymer nanofiltration membranes with enhanced permeability by interfacial polymerization. Journal of Membrane Science, 2018, 564, 813-819.	4.1	105
69	Vertical junction photodetectors based on reduced graphene oxide/silicon Schottky diodes. Nanoscale, 2014, 6, 4909-4914.	2.8	104
70	Self-Assembled Graphene Film as Low Friction Solid Lubricant in Macroscale Contact. ACS Applied Materials & Interfaces, 2017, 9, 21554-21562.	4.0	103
71	Anomalous Behaviors of Graphene Transparent Conductors in Grapheneâ€“Silicon Heterojunction Solar Cells. Advanced Energy Materials, 2013, 3, 1029-1034.	10.2	102
72	Highly deformation-tolerant carbon nanotube sponges as supercapacitor electrodes. Nanoscale, 2013, 5, 8472.	2.8	101

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73	Hybrid Heterojunction and Photoelectrochemistry Solar Cell Based on Silicon Nanowires and Double-Walled Carbon Nanotubes. Nano Letters, 2009, 9, 4338-4342.	4.5	98
74	Encapsulated carbon nanotube-oxide-silicon solar cells with stable 10% efficiency. Applied Physics Letters, 2011, 98, .	1.5	98
75	Enhanced photovoltaic properties in graphene/polycrystalline BiFeO3/Pt heterojunction structure. Applied Physics Letters, 2011, 99, .	1.5	97
76	Novel Microwave Synthesis of Nanocrystalline SnO₂ and Its Electrochemical Properties. Journal of Physical Chemistry C, 2008, 112, 4550-4556.	1.5	95
77	Carbon nanotube sponge filters for trapping nanoparticles and dye molecules from water. Chemical Communications, 2010, 46, 7966.	2.2	95
78	Highly dispersed Au nanoparticles immobilized on Zr-based metalâ€“organic frameworks as heterostructured catalyst for CO oxidation. Journal of Materials Chemistry A, 2013, 1, 14294.	5.2	95
79	Highly efficient quasi-static water desalination using monolayer graphene oxide/titania hybrid laminates. NPG Asia Materials, 2015, 7, e162-e162.	3.8	94
80	Atomic-Resolution Imaging of the Nucleation Points of Single-Walled Carbon Nanotubes. Small, 2005, 1, 1180-1183.	5.2	93
81	Determination of band gaps of self-assembled carbon nanotube films using Tauc/Davisâ€“Mott model. Applied Physics A: Materials Science and Processing, 2009, 97, 341-344.	1.1	92
82	Graphene oxide as a water transporter promoting germination of plants in soil. Nano Research, 2018, 11, 1928-1937.	5.8	92
83	Cationâ€“Ï€ Interactions in Grapheneâ€Containing Systems for Water Treatment and Beyond. Advanced Materials, 2020, 32, e1905756.	11.1	92
84	Precise Control of the Number of Layers of Graphene by Picosecond Laser Thinning. Scientific Reports, 2015, 5, 11662.	1.6	91
85	Carbon Nanotube and CdSe Nanobelt Schottky Junction Solar Cells. Nano Letters, 2010, 10, 3583-3589.	4.5	90
86	Shape anisotropic Fe3O4 nanotubes for efficient microwave absorption. Nano Research, 2020, 13, 621-629.	5.8	90
87	Anthocyanin-sensitized solar cells using carbon nanotube films as counter electrodes. Nanotechnology, 2008, 19, 465204.	1.3	88
88	Highly Twisted Double-Helix Carbon Nanotube Yarns. ACS Nano, 2013, 7, 1446-1453.	7.3	88
89	Graphene oxide-embedded polyamide nanofiltration membranes for selective ion separation. Journal of Materials Chemistry A, 2017, 5, 25632-25640.	5.2	88
90	Hydrogen uptake by graphitized multi-walled carbon nanotubes under moderate pressure and at room temperature. Carbon, 2001, 39, 2077-2079.	5.4	86

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91	Graphene-based transparent conductive electrodes for GaN-based light emitting diodes: Challenges and countermeasures. Nano Energy, 2015, 12, 419-436.	8.2	86
92	Highly Flexible and Adaptable, Allâ€Solidâ€State Supercapacitors Based on Graphene Wovenâ€Fabric Film Electrodes. Small, 2014, 10, 2583-2588.	5.2	85
93	A Bubbleâ€Derived Strategy to Prepare Multiple Grapheneâ€Based Porous Materials. Advanced Functional Materials, 2018, 28, 1705879.	7.8	85
94	In-Situ Formation of Sandwiched Structures of Nanotube/Cu_xO_y/Cu Composites for Lithium Battery Applications. ACS Nano, 2009, 3, 2177-2184.	7.3	84
95	Dynamically stretchable supercapacitors based on graphene woven fabric electrodes. Nano Energy, 2015, 15, 83-91.	8.2	84
96	Efficiency enhancement of graphene/silicon-pillar-array solar cells by HNO3 and PEDOT-PSS. Nanoscale, 2012, 4, 2130.	2.8	81
97	Large area, highly transparent carbon nanotube spiderwebs for energy harvesting. Journal of Materials Chemistry, 2010, 20, 7236.	6.7	76
98	Graphene based Schottky junction solar cells on patterned silicon-pillar-array substrate. Applied Physics Letters, 2011, 99, 233505.	1.5	76
99	Protecting carbon steel from corrosion by laser in situ grown graphene films. Carbon, 2015, 94, 326-334.	5.4	76
100	Ultrafast liquid water transport through graphene-based nanochannels measured by isotope labelling. Chemical Communications, 2015, 51, 3251-3254.	2.2	74
101	Boosting supercapacitor performance of carbon fibres using electrochemically reduced graphene oxide additives. Physical Chemistry Chemical Physics, 2013, 15, 19550.	1.3	73
102	Sponge-like nickel phosphideâ€“carbon nanotube hybrid electrodes for efficient hydrogen evolution over a wide pH range. Nano Research, 2017, 10, 415-425.	5.8	73
103	In-situ synthesis of carbon nanotube/graphene composite sponge and its application as compressible supercapacitor electrode. Electrochimica Acta, 2015, 157, 134-141.	2.6	72
104	Photo-Promoted Platinum Nanoparticles Decorated MoS₂@Graphene Woven Fabric Catalyst for Efficient Hydrogen Generation. ACS Applied Materials & Interfaces, 2016, 8, 10866-10873.	4.0	72
105	Preparation of highly pure double-walled carbon nanotubes. Journal of Materials Chemistry, 2003, 13, 1340.	6.7	70
106	Solution-processed CuSbS2 thin film: A promising earth-abundant photocathode for efficient visible-light-driven hydrogen evolution. Nano Energy, 2016, 28, 135-142.	8.2	70
107	Direct Synthesis of Graphene Quantum Dots by Chemical Vapor Deposition. Particle and Particle Systems Characterization, 2013, 30, 764-769.	1.2	69
108	The Interaction between Quantum Dots and Graphene: The Applications in Grapheneâ€Based Solar Cells and Photodetectors. Advanced Functional Materials, 2018, 28, 1804712.	7.8	69

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109	The effect of sulfur on the number of layers in a carbon nanotube. Carbon, 2007, 45, 2152-2158.	5.4	68
110	Strong and reversible modulation of carbon nanotubeâ€“silicon heterojunction solar cells by an interfacial oxide layer. Physical Chemistry Chemical Physics, 2012, 14, 8391.	1.3	68
111	Flame synthesis of few-layered graphene/graphite films. Chemical Communications, 2011, 47, 3520.	2.2	67
112	Graphene-CdSe nanobelt solar cells with tunable configurations. Nano Research, 2011, 4, 891-900.	5.8	67
113	Reduced graphene oxide/hierarchical flower-like zinc oxide hybrid films for room temperature formaldehyde detection. Sensors and Actuators B: Chemical, 2015, 221, 1290-1298.	4.0	67
114	Nacreâ€Inspired, Liquid Metalâ€Based Ultrasensitive Electronic Skin by Spatially Regulated Cracking Strategy. Advanced Functional Materials, 2021, 31, 2102359.	7.8	67
115	Synthesis of boron nitride nanofibers and measurement of their hydrogen uptake capacity. Applied Physics Letters, 2002, 81, 5225-5227.	1.5	66
116	Intrinsic high water/ion selectivity of graphene oxide lamellar membranes in concentration gradient-driven diffusion. Chemical Science, 2016, 7, 6988-6994.	3.7	66
117	Direct fabrication of single-walled carbon nanotube macro-films on flexible substrates. Chemical Communications, 2007, , 3042.	2.2	65
118	A strategy to control the chirality of single-walled carbon nanotubes. Journal of Crystal Growth, 2008, 310, 5473-5476.	0.7	65
119	Polymer-Coated Graphene Aerogel Beads and Supercapacitor Application. ACS Applied Materials & Interfaces, 2016, 8, 11179-11187.	4.0	65
120	Structural Characterizations of Long Single-Walled Carbon Nanotube Strands. Nano Letters, 2002, 2, 1105-1107.	4.5	63
121	Highly conductive, twistable and bendable polypyrroleâ€“carbon nanotube fiber for efficient supercapacitor electrodes. RSC Advances, 2015, 5, 22015-22021.	1.7	63
122	Small Temperature Coefficient of Resistivity of Graphene/Graphene Oxide Hybrid Membranes. ACS Applied Materials & Interfaces, 2013, 5, 9563-9571.	4.0	62
123	Largeâ€Area Flexible Coreâ€“Shell Graphene/Porous Carbon Woven Fabric Films for Fiber Supercapacitor Electrodes. Advanced Functional Materials, 2013, 23, 4862-4869.	7.8	62
124	Role of hydrogen in the chemical vapor deposition growth of MoS₂ atomic layers. Nanoscale, 2015, 7, 8398-8404.	2.8	62
125	Carbon nanotube sponges as conductive networks for supercapacitor devices. Nano Energy, 2013, 2, 1025-1030.	8.2	61
126	Fabrication of large area hexagonal boron nitride thin films for bendable capacitors. Nano Research, 2013, 6, 602-610.	5.8	61

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127	The grapheneâ€“semiconductor Schottky junction. Physics Today, 2016, 69, 46-51.	0.3	61
128	Twin Structure in BiVO₄ Photoanodes Boosting Water Oxidation Performance through Enhanced Charge Separation and Transport. Advanced Energy Materials, 2018, 8, 1802198.	10.2	61
129	Raman study on double-walled carbon nanotubes. Chemical Physics Letters, 2003, 376, 753-757.	1.2	58
130	A Facile Route to Isotropic Conductive Nanocomposites by Direct Polymer Infiltration of Carbon Nanotube Sponges. ACS Nano, 2011, 5, 4276-4283.	7.3	58
131	Highly Stretchable, Adaptable, and Durable Strain Sensing Based on a Bioinspired Dynamically Crossâ€Linked Graphene/Polymer Composite. Small, 2019, 15, e1900848.	5.2	58
132	High-quality textured SnSe thin films for self-powered, rapid-response photothermoelectric application. Nano Energy, 2020, 72, 104742.	8.2	58
133	Synthesis of nitrogen-doped carbon thin films and their applications in solar cells. Carbon, 2011, 49, 5022-5028.	5.4	56
134	Discrete breathers in hydrogenated graphene. Journal Physics D: Applied Physics, 2013, 46, 305302.	1.3	56
135	Highly selective charge-guided ion transport through a hybrid membrane consisting of anionic graphene oxide and cationic hydroxide nanosheet superlattice units. NPG Asia Materials, 2016, 8, e259-e259.	3.8	56
136	Three-dimensional Sponges with Super Mechanical Stability: Harnessing True Elasticity of Individual Carbon Nanotubes in Macroscopic Architectures. Scientific Reports, 2016, 6, 18930.	1.6	56
137	Synthetic Multifunctional Graphene Composites with Reshaping and Selfâ€Healing Features via a Facile Biomineralizationâ€Inspired Process. Advanced Materials, 2018, 30, e1803004.	11.1	55
138	Thermal conductivity of silicene nanosheets and the effect of isotopic doping. Journal Physics D: Applied Physics, 2014, 47, 165301.	1.3	54
139	Photo-induced selective gas detection based on reduced graphene oxide/Si Schottky diode. Carbon, 2015, 84, 138-145.	5.4	53
140	Carbon nanotube films by filtration for nanotube-silicon heterojunction solar cells. Materials Research Bulletin, 2010, 45, 1401-1405.	2.7	52
141	Direct laser fabrication of large-area and patterned graphene at room temperature. Carbon, 2014, 68, 784-790.	5.4	52
142	A highly efficient Fe-doped Ni3S2 electrocatalyst for overall water splitting. Nano Research, 2021, 14, 4740-4747.	5.8	52
143	Low-temperature synthesis of multilayer graphene/amorphous carbon hybrid films and their potential application in solar cells. Nanoscale Research Letters, 2012, 7, 453.	3.1	51
144	High flux nanofiltration membranes prepared with a graphene oxide homo-structure. Journal of Membrane Science, 2019, 585, 29-37.	4.1	51

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145	Widely Spaced Bound States in a Soliton Fiber Laser With Graphene Saturable Absorber. IEEE Photonics Technology Letters, 2013, 25, 1184-1187.	1.3	49
146	Torsion sensors of high sensitivity and wide dynamic range based on a graphene woven structure. Nanoscale, 2014, 6, 13053-13059.	2.8	48
147	Polyaniline/graphene/carbon fiber ternary composites as supercapacitor electrodes. Materials Letters, 2015, 140, 43-47.	1.3	48
148	Solar Cells and Light Sensors Based on Nanoparticle-Grafted Carbon Nanotube Films. ACS Nano, 2010, 4, 2142-2148.	7.3	47
149	TiO₂ enhanced ultraviolet detection based on a graphene/Si Schottky diode. Journal of Materials Chemistry A, 2015, 3, 8133-8138.	5.2	46
150	Growth mechanism of Y-junction carbon nanotubes. Diamond and Related Materials, 2002, 11, 1349-1352.	1.8	45
151	Flexible graphene woven fabrics for touch sensing. Applied Physics Letters, 2013, 102, .	1.5	45
152	Polymer-coated graphene films as anti-reflective transparent electrodes for Schottky junction solar cells. Journal of Materials Chemistry A, 2016, 4, 13795-13802.	5.2	44
153	Research Progress in Application of 2D Materials in Liquid-Phase Lubrication System. Materials, 2018, 11, 1314.	1.3	44
154	Polymer solar cells with gold nanoclusters decorated multi-layer graphene as transparent electrode. Applied Physics Letters, 2011, 99, 223302.	1.5	43
155	Hybrid Heterojunction and Solidâ€State Photoelectrochemical Solar Cells. Advanced Energy Materials, 2014, 4, 1400224.	10.2	43
156	A large area, flexible polyaniline/buckypaper composite with a coreâ€“shell structure for efficient supercapacitors. Journal of Materials Chemistry A, 2014, 2, 5898-5902.	5.2	43
157	Topology evolution of graphene in chemical vapor deposition, a combined theoretical/experimental approach toward shape control of graphene domains. Nanotechnology, 2012, 23, 115605.	1.3	42
158	Selective Ion Transport through Functionalized Graphene Membranes Based on Delicate Ionâ€“Graphene Interactions. Journal of Physical Chemistry C, 2014, 118, 19396-19401.	1.5	41
159	Doped carbon nanotube array with a gradient of nitrogen concentration. Carbon, 2010, 48, 3097-3102.	5.4	40
160	Interfacial shear strength of reduced graphene oxide polymer composites. Carbon, 2014, 77, 390-397.	5.4	40
161	Room-temperature out-of-plane and in-plane ferroelectricity of two-dimensional Î²-InSe nanoflakes. Applied Physics Letters, 2019, 114, .	1.5	40
162	Magnetic transitions in graphene derivatives. Nano Research, 2014, 7, 1507-1518.	5.8	39

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163	Effective recovery of acids from iron-based electrolytes using graphene oxide membrane filters. Journal of Materials Chemistry A, 2014, 2, 7734-7737.	5.2	39
164	Efficient photovoltaic conversion of grapheneâ€“carbon nanotube hybrid films grown from solid precursors. 2D Materials, 2015, 2, 034003.	2.0	38
165	Research Progress of the Liquid-Phase Exfoliation and Stable Dispersion Mechanism and Method of Graphene. Frontiers in Materials, 2019, 6, .	1.2	38
166	Machine Learning for Transition-Metal-Based Hydrogen Generation Electrocatalysts. ACS Catalysis, 2021, 11, 3930-3937.	5.5	38
167	Structural identification of single and double-walled carbon nanotubes by high-resolution transmission electron microscopy. Chemical Physics Letters, 2005, 412, 116-120.	1.2	37
168	Controllable growth of shaped graphene domains by atmospheric pressure chemical vapour deposition. Nanoscale, 2011, 3, 4946.	2.8	37
169	Photocatalytic, recyclable CdS nanoparticle-carbon nanotube hybrid sponges. Nano Research, 2012, 5, 265-271.	5.8	37
170	Realizing Synchronous Energy Harvesting and Ion Separation with Graphene Oxide Membranes. Scientific Reports, 2014, 4, 5528.	1.6	37
171	Cellulose-Templated Graphene Monoliths with Anisotropic Mechanical, Thermal, and Electrical Properties. ACS Applied Materials & Interfaces, 2015, 7, 19145-19152.	4.0	37
172	Electro- and Magneto-Modulated Ion Transport through Graphene Oxide Membranes. Scientific Reports, 2014, 4, 6798.	1.6	37
173	Hydroxyapatite/Mesoporous Graphene/Singleâ€Walled Carbon Nanotubes Freestanding Flexible Hybrid Membranes for Regenerative Medicine. Advanced Functional Materials, 2016, 26, 7965-7974.	7.8	37
174	Nanocellulose-Graphene Hybrids: Advanced Functional Materials as Multifunctional Sensing Platform. Nano-Micro Letters, 2021, 13, 94.	14.4	37
175	Photoinduced molecular desorption from graphene films. Applied Physics Letters, 2012, 101, 053107.	1.5	36
176	Fiber and fabric solar cells by directly weaving carbon nanotube yarns with CdSe nanowire-based electrodes. Nanoscale, 2012, 4, 4954.	2.8	36
177	High resolution non-invasive intraocular pressure monitoring by use of graphene woven fabrics on contact lens. Microsystems and Nanoengineering, 2019, 5, 39.	3.4	35
178	Graphene oxide quantum dots embedded polysulfone membranes with enhanced hydrophilicity, permeability and antifouling performance. Science China Materials, 2019, 62, 1177-1187.	3.5	35
179	Efficient energy conversion of nanotube/nanowire-based solar cells. Chemical Communications, 2010, 46, 5533.	2.2	34
180	Enhanced light emission of GaN-based diodes with a NiOx/graphene hybrid electrode. Nanoscale, 2012, 4, 5852.	2.8	34

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