Hongwei Zhu

List of Publications by Year
in descending order

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273	24,638	7096 78	7745 150
papers	citations	h-index	g-index

275	275	275	27786
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carbon Nanotube Sponges. Advanced Materials, 2010, 22, 617-621.	21.0	1,380
2	Grapheneâ€Onâ€Silicon Schottky Junction Solar Cells. Advanced Materials, 2010, 22, 2743-2748.	21.0	1,042
3	Wearable and Highly Sensitive Graphene Strain Sensors for Human Motion Monitoring. Advanced Functional Materials, 2014, 24, 4666-4670.	14.9	923
4	Hydrothermal Synthesis and Pseudocapacitance Properties of MnO2Nanostructures. Journal of Physical Chemistry B, 2005, 109, 20207-20214.	2.6	903
5	Adsorption of methylene blue from aqueous solution by graphene. Colloids and Surfaces B: Biointerfaces, 2012, 90, 197-203.	5.0	635
6	Selective Ion Penetration of Graphene Oxide Membranes. ACS Nano, 2013, 7, 428-437.	14.6	635
7	Recent advances in wearable tactile sensors: Materials, sensing mechanisms, and device performance. Materials Science and Engineering Reports, 2017, 115, 1-37.	31.8	557
8	Recent Developments in Grapheneâ€Based Membranes: Structure, Massâ€Transport Mechanism and Potential Applications. Advanced Materials, 2016, 28, 2287-2310.	21.0	540
9	Stretchable and highly sensitive graphene-on-polymer strain sensors. Scientific Reports, 2012, 2, 870.	3.3	517
10	Hydrogen Uptake in Boron Nitride Nanotubes at Room Temperature. Journal of the American Chemical Society, 2002, 124, 7672-7673.	13.7	424
11	Role of Interfacial Oxide in High-Efficiency Grapheneâ€“Silicon Schottky Barrier Solar Cells. Nano Letters, 2015, 15, 2104-2110.	9.1	404
12	High Detectivity Grapheneâ€Silicon Heterojunction Photodetector. Small, 2016, 12, 595-601.	10.0	370
13	Engineering graphene and TMDs based van der Waals heterostructures for photovoltaic and photoelectrochemical solar energy conversion. Chemical Society Reviews, 2018, 47, 4981-5037.	38.1	344
14	Highly Sensitive, Wearable, Durable Strain Sensors and Stretchable Conductors Using Graphene/Silicon Rubber Composites. Advanced Functional Materials, 2016, 26, 7614-7625.	14.9	339
15	Nanostructured MnO2: Hydrothermal synthesis and electrochemical properties as a supercapacitor electrode material. Journal of Power Sources, 2006, 159, 361-364.	7.8	336
16	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.	14.6	333
17	Graphene Reinforced Carbon Nanotube Networks for Wearable Strain Sensors. Advanced Functional Materials, 2016, 26, 2078-2084.	14.9	328
18	Largeâ€Area Ultrathin Graphene Films by Singleâ€Step Marangoni Selfâ€Assembly for Highly Sensitive Strain Sensing Application. Advanced Functional Materials, 2016, 26, 1322-1329.	14.9	326

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19	Applications of carbon materials in photovoltaic solar cells. Solar Energy Materials and Solar Cells, 2009, 93, 1461-1470.	6.2	318
20	Colloidal Antireflection Coating Improves Grapheneâ€“Silicon Solar Cells. Nano Letters, 2013, 13, 1776-1781.	9.1	303
21	Core-Double-Shell, Carbon Nanotube@Polypyrrole@MnO₂ Sponge as Freestanding, Compressible Supercapacitor Electrode. ACS Applied Materials & Interfaces, 2014, 6, 5228-5234.	8.0	298
22	Recyclable carbon nanotube sponges for oil absorption. Acta Materialia, 2011, 59, 4798-4804.	7.9	276
23	Adsorption of fluoride from aqueous solution by graphene. Journal of Colloid and Interface Science, 2011, 363, 348-354.	9.4	271
24	A Wearable and Highly Sensitive Graphene Strain Sensor for Precise Home-Based Pulse Wave Monitoring. ACS Sensors, 2017, 2, 967-974.	7.8	260
25	Tactile Sensing System Based on Arrays of Graphene Woven Microfabrics: Electromechanical Behavior and Electronic Skin Application. ACS Nano, 2015, 9, 10867-10875.	14.6	258
26	Structural engineering of gold thin films with channel cracks for ultrasensitive strain sensing. Materials Horizons, 2016, 3, 248-255.	12.2	249
27	Tribological properties of oleic acid-modified graphene as lubricant oil additives. Journal Physics D: Applied Physics, 2011, 44, 205303.	2.8	232
28	Achieving High Efficiency Silicon-Carbon Nanotube Heterojunction Solar Cells by Acid Doping. Nano Letters, 2011, 11, 1901-1905.	9.1	230
29	Soft, Highly Conductive Nanotube Sponges and Composites with Controlled Compressibility. ACS Nano, 2010, 4, 2320-2326.	14.6	219
30	Graphene/Silicon Nanowire Schottky Junction for Enhanced Light Harvesting. ACS Applied Materials & Interfaces, 2011, 3, 721-725.	8.0	214
31	Superâ€Stretchable Springâ€Like Carbon Nanotube Ropes. Advanced Materials, 2012, 24, 2896-2900.	21.0	193
32	Graphene sheets from worm-like exfoliated graphite. Journal of Materials Chemistry, 2009, 19, 3367.	6.7	189
33	Equilibrium, kinetic and thermodynamic studies on the adsorption of phenol onto graphene. Materials Research Bulletin, 2012, 47, 1898-1904.	5.2	185
34	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.	3.5	179
35	Graphene/polyaniline woven fabric composite films as flexible supercapacitor electrodes. Nanoscale, 2015, 7, 7318-7322.	5.6	175
36	Boron Doping of Graphene for Grapheneâ€“Silicon pâ€“n Junction Solar Cells. Advanced Energy Materials, 2012, 2, 425-429.	19.5	169

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37	Effect of different gel electrolytes on graphene-based solid-state supercapacitors. RSC Advances, 2014, 4, 36253-36256.	3.6	163
38	Longâ€€Cycle Electrochemical Behavior of Multiwall Carbon Nanotubes Synthesized on Stainless Steel in Li Ion Batteries. Advanced Functional Materials, 2009, 19, 1008-1014.	14.9	159
39	Carbon/Silicon Heterojunction Solar Cells: State of the Art and Prospects. Advanced Materials, 2015, 27, 6549-6574.	21.0	159
40	Flexible all solid-state supercapacitors based on chemical vapor deposition derived graphene fibers. Physical Chemistry Chemical Physics, 2013, 15, 17752.	2.8	156
41	Graphene/semiconductor heterojunction solar cells with modulated antireflection and graphene work function. Energy and Environmental Science, 2013, 6, 108-115.	30.8	154
42	Cobalt and nickel selenide nanowalls anchored on graphene as bifunctional electrocatalysts for overall water splitting. Journal of Materials Chemistry A, 2016, 4, 14789-14795.	10.3	150
43	Ultra-sensitive graphene strain sensor for sound signal acquisition and recognition. Nano Research, 2015, 8, 1627-1636.	10.4	149
44	Alcohol-assisted room temperature synthesis of different nanostructured manganese oxides and their pseudocapacitance properties in neutral electrolyte. Chemical Physics Letters, 2008, 453, 242-249.	2.6	148
45	TiO2-Coated Carbon Nanotube-Silicon Solar Cells with Efficiency of 15%. Scientific Reports, 2012, 2, 884.	3.3	141
46	Ion doping of graphene for high-efficiency heterojunction solar cells. Nanoscale, 2013, 5, 1945.	5.6	136
47	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.	2.9	133
48	Scalable Low-Band-Gap Sb₂Se₃ Thin-Film Photocathodes for Efficient Visibleâ€“Near-Infrared Solar Hydrogen Evolution. ACS Nano, 2017, 11, 12753-12763.	14.6	127
49	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.	3.1	125
50	Simultaneous High Sensitivity Sensing of Temperature and Humidity with Graphene Woven Fabrics. ACS Applied Materials & Interfaces, 2017, 9, 30171-30176.	8.0	122
51	Ultrasensitive and Stretchable Strain Sensors Based on Mazelike Vertical Graphene Network. ACS Applied Materials & Interfaces, 2018, 10, 36312-36322.	8.0	116
52	High Rate Reversibility Anode Materials of Lithium Batteries from Vapor-Grown Carbon Nanofibers. Journal of Physical Chemistry B, 2006, 110, 7178-7183.	2.6	115
53	Carbon nanotube-polypyrrole core-shell sponge and its application as highly compressible supercapacitor electrode. Nano Research, 2014, 7, 209-218.	10.4	115
54	Three-dimensional porous graphene sponges assembled with the combination of surfactant and freeze-drying. Nano Research, 2014, 7, 1477-1487.	10.4	111

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55	Formation of Uniform Water Microdroplets on Wrinkled Graphene for Ultrafast Humidity Sensing. Small, 2018, 14, e1703848.	10.0	109
56	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.	8.0	108
57	Carbon nanotube filaments in household light bulbs. Applied Physics Letters, 2004, 84, 4869-4871.	3.3	105
58	Vertical junction photodetectors based on reduced graphene oxide/silicon Schottky diodes. Nanoscale, 2014, 6, 4909-4914.	5.6	104
59	Anomalous Behaviors of Graphene Transparent Conductors in Grapheneâ€“Silicon Heterojunction Solar Cells. Advanced Energy Materials, 2013, 3, 1029-1034.	19.5	102
60	Highly deformation-tolerant carbon nanotube sponges as supercapacitor electrodes. Nanoscale, 2013, 5, 8472.	5.6	101
61	Hybrid Heterojunction and Photoelectrochemistry Solar Cell Based on Silicon Nanowires and Double-Walled Carbon Nanotubes. Nano Letters, 2009, 9, 4338-4342.	9.1	98
62	Encapsulated carbon nanotube-oxide-silicon solar cells with stable 10% efficiency. Applied Physics Letters, 2011, 98, .	3.3	98
63	Novel Microwave Synthesis of Nanocrystalline SnO₂ and Its Electrochemical Properties. Journal of Physical Chemistry C, 2008, 112, 4550-4556.	3.1	95
64	Carbon nanotube sponge filters for trapping nanoparticles and dye molecules from water. Chemical Communications, 2010, 46, 7966.	4.1	95
65	Highly efficient quasi-static water desalination using monolayer graphene oxide/titania hybrid laminates. NPG Asia Materials, 2015, 7, e162-e162.	7.9	94
66	Atomic-Resolution Imaging of the Nucleation Points of Single-Walled Carbon Nanotubes. Small, 2005, 1, 1180-1183.	10.0	93
67	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.	2.3	92
68	Cationâ€“Ï€ Interactions in Grapheneâ€Containing Systems for Water Treatment and Beyond. Advanced Materials, 2020, 32, e1905756.	21.0	92
69	Precise Control of the Number of Layers of Graphene by Picosecond Laser Thinning. Scientific Reports, 2015, 5, 11662.	3.3	91
70	Carbon Nanotube and CdSe Nanobelt Schottky Junction Solar Cells. Nano Letters, 2010, 10, 3583-3589.	9.1	90
71	Anthocyanin-sensitized solar cells using carbon nanotube films as counter electrodes. Nanotechnology, 2008, 19, 465204.	2.6	88
72	Highly Twisted Double-Helix Carbon Nanotube Yarns. ACS Nano, 2013, 7, 1446-1453.	14.6	88

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73	Graphene oxide-embedded polyamide nanofiltration membranes for selective ion separation. Journal of Materials Chemistry A, 2017, 5, 25632-25640.	10.3	88
74	Highly Flexible and Adaptable, Allâ€Solidâ€State Supercapacitors Based on Graphene Wovenâ€Fabric Film Electrodes. Small, 2014, 10, 2583-2588.	10.0	85
75	A Bubbleâ€Derived Strategy to Prepare Multiple Grapheneâ€Based Porous Materials. Advanced Functional Materials, 2018, 28, 1705879.	14.9	85
76	In-Situ Formation of Sandwiched Structures of Nanotube/Cu_xO_y/Cu Composites for Lithium Battery Applications. ACS Nano, 2009, 3, 2177-2184.	14.6	84
77	Dynamically stretchable supercapacitors based on graphene woven fabric electrodes. Nano Energy, 2015, 15, 83-91.	16.0	84
78	Efficiency enhancement of graphene/silicon-pillar-array solar cells by HNO3 and PEDOT-PSS. Nanoscale, 2012, 4, 2130.	5.6	81
79	Large area, highly transparent carbon nanotube spiderwebs for energy harvesting. Journal of Materials Chemistry, 2010, 20, 7236.	6.7	76
80	Graphene based Schottky junction solar cells on patterned silicon-pillar-array substrate. Applied Physics Letters, 2011, 99, 233505.	3.3	76
81	Protecting carbon steel from corrosion by laser in situ grown graphene films. Carbon, 2015, 94, 326-334.	10.3	76
82	Ultrafast liquid water transport through graphene-based nanochannels measured by isotope labelling. Chemical Communications, 2015, 51, 3251-3254.	4.1	74
83	Boosting supercapacitor performance of carbon fibres using electrochemically reduced graphene oxide additives. Physical Chemistry Chemical Physics, 2013, 15, 19550.	2.8	73
84	Sponge-like nickel phosphideâ€“carbon nanotube hybrid electrodes for efficient hydrogen evolution over a wide pH range. Nano Research, 2017, 10, 415-425.	10.4	73
85	Photo-Promoted Platinum Nanoparticles Decorated MoS₂@Graphene Woven Fabric Catalyst for Efficient Hydrogen Generation. ACS Applied Materials & Interfaces, 2016, 8, 10866-10873.	8.0	72
86	Preparation of highly pure double-walled carbon nanotubes. Journal of Materials Chemistry, 2003, 13, 1340.	6.7	70
87	Solution-processed CuSbS2 thin film: A promising earth-abundant photocathode for efficient visible-light-driven hydrogen evolution. Nano Energy, 2016, 28, 135-142.	16.0	70
88	Direct Synthesis of Graphene Quantum Dots by Chemical Vapor Deposition. Particle and Particle Systems Characterization, 2013, 30, 764-769.	2.3	69
89	The effect of sulfur on the number of layers in a carbon nanotube. Carbon, 2007, 45, 2152-2158.	10.3	68
90	Strong and reversible modulation of carbon nanotubeâ€“silicon heterojunction solar cells by an interfacial oxide layer. Physical Chemistry Chemical Physics, 2012, 14, 8391.	2.8	68

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91	Flame synthesis of few-layered graphene/graphite films. Chemical Communications, 2011, 47, 3520.	4.1	67
92	Graphene-CdSe nanobelt solar cells with tunable configurations. Nano Research, 2011, 4, 891-900.	10.4	67
93	Reduced graphene oxide/hierarchical flower-like zinc oxide hybrid films for room temperature formaldehyde detection. Sensors and Actuators B: Chemical, 2015, 221, 1290-1298.	7.8	67
94	Synthesis of boron nitride nanofibers and measurement of their hydrogen uptake capacity. Applied Physics Letters, 2002, 81, 5225-5227.	3.3	66
95	Intrinsic high water/ion selectivity of graphene oxide lamellar membranes in concentration gradient-driven diffusion. Chemical Science, 2016, 7, 6988-6994.	7.4	66
96	Direct fabrication of single-walled carbon nanotube macro-films on flexible substrates. Chemical Communications, 2007, , 3042.	4.1	65
97	A strategy to control the chirality of single-walled carbon nanotubes. Journal of Crystal Growth, 2008, 310, 5473-5476.	1.5	65
98	Structural Characterizations of Long Single-Walled Carbon Nanotube Strands. Nano Letters, 2002, 2, 1105-1107.	9.1	63
99	Small Temperature Coefficient of Resistivity of Graphene/Graphene Oxide Hybrid Membranes. ACS Applied Materials & Interfaces, 2013, 5, 9563-9571.	8.0	62
100	Largeâ€Area Flexible Coreâ€“Shell Graphene/Porous Carbon Woven Fabric Films for Fiber Supercapacitor Electrodes. Advanced Functional Materials, 2013, 23, 4862-4869.	14.9	62
101	Carbon nanotube sponges as conductive networks for supercapacitor devices. Nano Energy, 2013, 2, 1025-1030.	16.0	61
102	Twin Structure in BiVO₄ Photoanodes Boosting Water Oxidation Performance through Enhanced Charge Separation and Transport. Advanced Energy Materials, 2018, 8, 1802198.	19.5	61
103	Raman study on double-walled carbon nanotubes. Chemical Physics Letters, 2003, 376, 753-757.	2.6	58
104	A Facile Route to Isotropic Conductive Nanocomposites by Direct Polymer Infiltration of Carbon Nanotube Sponges. ACS Nano, 2011, 5, 4276-4283.	14.6	58
105	Highly Stretchable, Adaptable, and Durable Strain Sensing Based on a Bioinspired Dynamically Crossâ€Linked Graphene/Polymer Composite. Small, 2019, 15, e1900848.	10.0	58
106	High-quality textured SnSe thin films for self-powered, rapid-response photothermoelectric application. Nano Energy, 2020, 72, 104742.	16.0	58
107	Synthesis of nitrogen-doped carbon thin films and their applications in solar cells. Carbon, 2011, 49, 5022-5028.	10.3	56
108	Discrete breathers in hydrogenated graphene. Journal Physics D: Applied Physics, 2013, 46, 305302.	2.8	56

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109	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.	7.9	56
110	Three-dimensional Sponges with Super Mechanical Stability: Harnessing True Elasticity of Individual Carbon Nanotubes in Macroscopic Architectures. Scientific Reports, 2016, 6, 18930.	3.3	56
111	Synthetic Multifunctional Graphene Composites with Reshaping and Selfâ€Healing Features via a Facile Biomineralizationâ€Inspired Process. Advanced Materials, 2018, 30, e1803004.	21.0	55
112	Thermal conductivity of silicene nanosheets and the effect of isotopic doping. Journal Physics D: Applied Physics, 2014, 47, 165301.	2.8	54
113	Carbon nanotube films by filtration for nanotube-silicon heterojunction solar cells. Materials Research Bulletin, 2010, 45, 1401-1405.	5.2	52
114	Widely Spaced Bound States in a Soliton Fiber Laser With Graphene Saturable Absorber. IEEE Photonics Technology Letters, 2013, 25, 1184-1187.	2.5	49
115	Torsion sensors of high sensitivity and wide dynamic range based on a graphene woven structure. Nanoscale, 2014, 6, 13053-13059.	5.6	48
116	Solar Cells and Light Sensors Based on Nanoparticle-Grafted Carbon Nanotube Films. ACS Nano, 2010, 4, 2142-2148.	14.6	47
117	TiO₂ enhanced ultraviolet detection based on a graphene/Si Schottky diode. Journal of Materials Chemistry A, 2015, 3, 8133-8138.	10.3	46
118	Flexible graphene woven fabrics for touch sensing. Applied Physics Letters, 2013, 102, .	3.3	45
119	Hybrid Heterojunction and Solidâ€State Photoelectrochemical Solar Cells. Advanced Energy Materials, 2014, 4, 1400224.	19.5	43
120	Selective Ion Transport through Functionalized Graphene Membranes Based on Delicate Ionâ€“Graphene Interactions. Journal of Physical Chemistry C, 2014, 118, 19396-19401.	3.1	41
121	Doped carbon nanotube array with a gradient of nitrogen concentration. Carbon, 2010, 48, 3097-3102.	10.3	40
122	Interfacial shear strength of reduced graphene oxide polymer composites. Carbon, 2014, 77, 390-397.	10.3	40
123	Room-temperature out-of-plane and in-plane ferroelectricity of two-dimensional Î²-InSe nanoflakes. Applied Physics Letters, 2019, 114, .	3.3	40
124	Magnetic transitions in graphene derivatives. Nano Research, 2014, 7, 1507-1518.	10.4	39
125	Effective recovery of acids from iron-based electrolytes using graphene oxide membrane filters. Journal of Materials Chemistry A, 2014, 2, 7734-7737.	10.3	39
126	Machine Learning for Transition-Metal-Based Hydrogen Generation Electrocatalysts. ACS Catalysis, 2021, 11, 3930-3937.	11.2	38

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127	Structural identification of single and double-walled carbon nanotubes by high-resolution transmission electron microscopy. Chemical Physics Letters, 2005, 412, 116-120.	2.6	37
128	Controllable growth of shaped graphene domains by atmospheric pressure chemical vapour deposition. Nanoscale, 2011, 3, 4946.	5.6	37
129	Photocatalytic, recyclable CdS nanoparticle-carbon nanotube hybrid sponges. Nano Research, 2012, 5, 265-271.	10.4	37
130	Realizing Synchronous Energy Harvesting and Ion Separation with Graphene Oxide Membranes. Scientific Reports, 2014, 4, 5528.	3.3	37
131	Cellulose-Templated Graphene Monoliths with Anisotropic Mechanical, Thermal, and Electrical Properties. ACS Applied Materials & Interfaces, 2015, 7, 19145-19152.	8.0	37
132	Electro- and Magneto-Modulated Ion Transport through Graphene Oxide Membranes. Scientific Reports, 2014, 4, 6798.	3.3	37
133	Hydroxyapatite/Mesoporous Graphene/Singleâ€Walled Carbon Nanotubes Freestanding Flexible Hybrid Membranes for Regenerative Medicine. Advanced Functional Materials, 2016, 26, 7965-7974.	14.9	37
134	High-yield bamboo-shaped carbon nanotubes from cresol for electrochemical application. Chemical Communications, 2008, , 2046.	4.1	36
135	Photoinduced molecular desorption from graphene films. Applied Physics Letters, 2012, 101, 053107.	3.3	36
136	Fiber and fabric solar cells by directly weaving carbon nanotube yarns with CdSe nanowire-based electrodes. Nanoscale, 2012, 4, 4954.	5.6	36
137	Efficient energy conversion of nanotube/nanowire-based solar cells. Chemical Communications, 2010, 46, 5533.	4.1	34
138	Enhanced light emission of GaN-based diodes with a NiOx/graphene hybrid electrode. Nanoscale, 2012, 4, 5852.	5.6	34
139	Highly Efficient NiFe Nanoparticle Decorated Si Photoanode for Photoelectrochemical Water Oxidation. Chemistry of Materials, 2019, 31, 171-178.	6.7	34
140	Nanostructured manganese oxides and their composites with carbon nanotubes as electrode materials for energy storage devices. Pure and Applied Chemistry, 2008, 80, 2327-2343.	1.9	33
141	Hybrid thin films of graphene nanowhiskers and amorphous carbon as transparent conductors. Chemical Communications, 2010, 46, 3502.	4.1	33
142	Bio-inspired mechanics of highly sensitive stretchable graphene strain sensors. Applied Physics Letters, 2015, 106, .	3.3	33
143	Effect of Different Disinfectants on Bacterial Aerosol Diversity in Poultry Houses. Frontiers in Microbiology, 2018, 9, 2113.	3.5	33
144	One-step synthesis of a hierarchical self-supported WS₂ film for efficient electrocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 22405-22411.	10.3	33

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145	Transparent Electrothermal Film Defoggers and Antiicing Coatings based on Wrinkled Graphene. Small, 2020, 16, e1905945.	10.0	33
146	Electronic properties of double-walled carbon nanotube films. Carbon, 2003, 41, 2495-2500.	10.3	32
147	Suppression of the coffee-ring effect by self-assembling graphene oxide and monolayer titania. Nanotechnology, 2013, 24, 075601.	2.6	32
148	Passive harmonic mode locking in erbium-doped fiber laser with graphene saturable absorber. Optics Communications, 2013, 286, 304-308.	2.1	32
149	Galvanism of continuous ionic liquid flow over graphene grids. Applied Physics Letters, 2015, 107, .	3.3	32
150	Microwave absorbing properties and magnetic properties of different carbon nanotubes. Science in China Series D: Earth Sciences, 2009, 52, 227-231.	0.9	31
151	Physically Coating Nanofiltration Membranes with Graphene Oxide Quantum Dots for Simultaneously Improved Water Permeability and Salt/Dye Rejection. Advanced Materials Interfaces, 2019, 6, 1801742.	3.7	31
152	Annealed InGaN green light-emitting diodes with graphene transparent conductive electrodes. Journal of Applied Physics, 2012, 111, 114501.	2.5	30
153	Large area high-performance bismuth vanadate photoanode for efficient solar water splitting. Journal of Materials Chemistry A, 2020, 8, 3845-3850.	10.3	30
154	Structure Evolution of Graphene Oxide during Thermally Driven Phase Transformation: Is the Oxygen Content Really Preserved?. PLoS ONE, 2014, 9, e111908.	2.5	29
155	Graphene Oxide Promoted Cadmium Uptake by Rice in Soil. ACS Sustainable Chemistry and Engineering, 2019, 7, 10283-10292.	6.7	29
156	High-yield synthesis of multi-walled carbon nanotubes by water-protected arc discharge method. Carbon, 2003, 41, 1664-1666.	10.3	28
157	Self-Assembled Graphene Membrane as an Ultrafast Mode-Locker in an Erbium Fiber Laser. IEEE Photonics Technology Letters, 2011, 23, 1790-1792.	2.5	28
158	Flow-induced voltage generation in graphene network. Nano Research, 2015, 8, 2467-2473.	10.4	28
159	Black Soldier Fly (Hermetia illucens) Larvae Significantly Change the Microbial Community in Chicken Manure. Current Microbiology, 2021, 78, 303-315.	2.2	27
160	Partially sandwiched graphene as transparent conductive layer for InGaN-based vertical light emitting diodes. Applied Physics Letters, 2012, 101, 061102.	3.3	26
161	Electrical and thermal properties of a carbon nanotube/polycrystalline BiFeO3/Pt photovoltaic heterojunction with CdSe quantum dots sensitization. Nanoscale, 2012, 4, 2926.	5.6	26
162	In Situ Fabrication of Bendable Microscale Hexagonal Pyramids Array Vertical Light Emitting Diodes with Graphene as Stretchable Electrical Interconnects. ACS Photonics, 2014, 1, 421-429.	6.6	26

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163	Strong Adhesion of Graphene Oxide Coating on Polymer Separation Membranes. Langmuir, 2018, 34, 10569-10579.	3.5	26
164	Improved transport properties of graphene/GaN junctions in GaN-based vertical light emitting diodes by acid doping. RSC Advances, 2013, 3, 3359.	3.6	25
165	Foldable and electrically stable graphene film resistors prepared by vacuum filtration for flexible electronics. Surface and Coatings Technology, 2016, 299, 22-28.	4.8	25
166	Efficient photoelectrochemical water oxidation enabled by an amorphous metal oxide-catalyzed graphene/silicon heterojunction photoanode. Sustainable Energy and Fuels, 2018, 2, 663-672.	4.9	25
167	On self-dual and LCD double circulant and double negacirculant codes over Fq+uFq$mathbb {F}_{q}+umathbb {F}_{q}$. Cryptography and Communications, 2020, 12, 53-70.	1.4	25
168	A programmable, gradient-composition strategy producing synergistic and ultrahigh sensitivity amplification for flexible pressure sensing. Nano Energy, 2020, 74, 104847.	16.0	25
169	Ethanol flame synthesis of highly transparent carbon thin films. Carbon, 2011, 49, 237-241.	10.3	24
170	Anisotropic interfacial friction of inclined multiwall carbon nanotube array surface. Carbon, 2012, 50, 5372-5379.	10.3	24
171	Graphene buffered galvanic synthesis of grapheneâ€“metal hybrids. Journal of Materials Chemistry, 2011, 21, 13241.	6.7	23
172	Investigation of the improved performance in a graphene/polycrystalline BiFeO3/Pt photovoltaic heterojunction: Experiment, modeling, and application. Journal of Applied Physics, 2012, 112, .	2.5	23
173	Thinning of large-area graphene film from multilayer to bilayer with a low-power CO₂laser. Nanotechnology, 2013, 24, 275302.	2.6	23
174	Excellent stability of molecular catalyst/BiVO4 photoanode in borate buffer solution. Nano Energy, 2020, 70, 104487.	16.0	23
175	Wire-supported CdSe nanowire array photoelectrochemical solar cells. Physical Chemistry Chemical Physics, 2012, 14, 3583.	2.8	22
176	Step driven competitive epitaxial and self-limited growth of graphene on copper surface. AIP Advances, 2011, 1, .	1.3	21
177	Interface and transport properties of GaN/graphene junction in GaN-based LEDs. Journal Physics D: Applied Physics, 2012, 45, 505102.	2.8	21
178	Enhanced performance of GaN-based light-emitting diodes with graphene/Ag nanowires hybrid films. AIP Advances, 2013, 3, .	1.3	21
179	Interconnected graphene/polymer micro-tube piping composites for liquid sensing. Nano Research, 2014, 7, 869-876.	10.4	21
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