

Qingzhong Xue

List of Publications by Year in descending order

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13366
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#	ARTICLE	IF	CITATIONS
1	Fabrication and characterization of an ultrasensitive humidity sensor based on metal oxide/graphene hybrid nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 233-240.	4.0	367
2	Layered double hydroxides toward high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15460-15485.	5.2	326
3	Graphene oxide/polyacrylonitrile fiber hierarchical-structured membrane for ultra-fast microfiltration of oil-water emulsion. <i>Chemical Engineering Journal</i> , 2017, 307, 643-649.	6.6	303
4	Flexible self-powered high-performance ammonia sensor based on Au-decorated MoSe ₂ nanoflowers driven by single layer MoS ₂ -flake piezoelectric nanogenerator. <i>Nano Energy</i> , 2019, 65, 103974.	8.2	281
5	Ultrahigh performance humidity sensor based on layer-by-layer self-assembly of graphene oxide/polyelectrolyte nanocomposite film. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 263-270.	4.0	242
6	Stable CoSe ₂ /carbon nanodice@reduced graphene oxide composites for high-performance rechargeable aluminum-ion batteries. <i>Energy and Environmental Science</i> , 2018, 11, 2341-2347.	15.6	240
7	Critical role of small micropores in high CO ₂ uptake. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2523.	1.3	228
8	Influence of chemical functionalization on the CO ₂ /N ₂ separation performance of porous graphene membranes. <i>Nanoscale</i> , 2012, 4, 5477.	2.8	193
9	Investigation of Molecular Interactions between SWNT and Polyethylene/Polypropylene/Polystyrene/Polyaniline Molecules. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4628-4635.	1.5	176
10	Iron-doping-enhanced photoelectrochemical water splitting performance of nanostructured WO ₃ : a combined experimental and theoretical study. <i>Nanoscale</i> , 2015, 7, 2933-2940.	2.8	171
11	Antifouling hydrolyzed polyacrylonitrile/graphene oxide membrane with spindle-knotted structure for highly effective separation of oil-water emulsion. <i>Journal of Membrane Science</i> , 2017, 532, 38-46.	4.1	170
12	Understanding the relationship between ion migration and the anomalous hysteresis in high-efficiency perovskite solar cells: A fresh perspective from halide substitution. <i>Nano Energy</i> , 2016, 26, 620-630.	8.2	167
13	Superior capacitive performance of active carbons derived from <i>Enteromorpha prolifera</i> . <i>Electrochimica Acta</i> , 2014, 133, 459-466.	2.6	162
14	Tunable Hydrogen Separation in Porous Graphene Membrane: First-Principle and Molecular Dynamic Simulation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8048-8058.	4.0	159
15	C ₂ N: an excellent two-dimensional monolayer membrane for He separation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21351-21356.	5.2	157
16	Model for the effective thermal conductivity of carbon nanotube composites. <i>Nanotechnology</i> , 2006, 17, 1655-1660.	1.3	155
17	Effect of Chemisorption on the Interfacial Bonding Characteristics of Graphene~Polymer Composites. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6588-6594.	1.5	150
18	High-rate capacitive performance of graphene aerogel with a superhigh C/O molar ratio. <i>Journal of Materials Chemistry</i> , 2012, 22, 23186.	6.7	145

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19	Effect of defects on Young's modulus of graphene sheets: a molecular dynamics simulation. RSC Advances, 2012, 2, 9124.	1.7	142
20	Ultra-sensitive NH ₃ sensor based on flower-shaped SnS ₂ nanostructures with sub-ppm detection ability. Journal of Hazardous Materials, 2018, 341, 159-167.	6.5	140
21	Electrical and photovoltaic characteristics of MoS ₂ /Si p-n junctions. Journal of Applied Physics, 2015, 117, .	1.1	131
22	The influence of particle shape and size on electric conductivity of metal-polymer composites. European Polymer Journal, 2004, 40, 323-327.	2.6	129
23	Computational analysis of effect of modification on the interfacial characteristics of a carbon nanotube-polyethylene composite system. Applied Surface Science, 2009, 255, 3534-3543.	3.1	127
24	Fabrication of Carbon Nanoscrolls from Monolayer Graphene. Small, 2010, 6, 2010-2019.	5.2	127
25	Theoretical approaches to graphene and graphene-based materials. Nano Today, 2012, 7, 180-200.	6.2	122
26	A hierarchical structured steel mesh decorated with metal organic framework/graphene oxide for high-efficient oil/water separation. Journal of Hazardous Materials, 2019, 373, 725-732.	6.5	120
27	Fluorine-Modified Porous Graphene as Membrane for CO ₂ /N ₂ Separation: Molecular Dynamic and First-Principles Simulations. Journal of Physical Chemistry C, 2014, 118, 7369-7376.	1.5	114
28	Charge-modulated CO ₂ capture of C ₃ N nanosheet: Insights from DFT calculations. Chemical Engineering Journal, 2018, 338, 92-98.	6.6	111
29	ZIF-derived porous ZnO-Co ₃ O ₄ hollow polyhedrons heterostructure with highly enhanced ethanol detection performance. Sensors and Actuators B: Chemical, 2017, 253, 523-532.	4.0	108
30	Pore-scale characterization of tight sandstone in Yanchang Formation Ordos Basin China using micro-CT and SEM imaging from nm- to cm-scale. Fuel, 2017, 209, 254-264.	3.4	107
31	Electrostatic Self-Assembly of Sandwich-Like CoAl-LDH/Polypyrrole/Graphene Nanocomposites with Enhanced Capacitive Performance. ACS Applied Materials & Interfaces, 2017, 9, 31699-31709.	4.0	103
32	High-efficiency separation performance of oil-water emulsions of polyacrylonitrile nanofibrous membrane decorated with metal-organic frameworks. Applied Surface Science, 2019, 476, 61-69.	3.1	103
33	Adsorption and Catalytic Activation of O ₂ Molecule on the Surface of Au-Doped Graphene under an External Electric Field. Journal of Physical Chemistry C, 2012, 116, 19918-19924.	1.5	99
34	High-performance n-MoS ₂ /i-SiO ₂ /p-Si heterojunction solar cells. Nanoscale, 2015, 7, 8304-8308.	2.8	99
35	Effect of chemisorption on the interfacial bonding characteristics of carbon nanotube-polymer composites. Polymer, 2008, 49, 800-808.	1.8	96
36	Synthesis of nanowire bundle-like WO ₃ -W ₁₈ O ₄₉ heterostructures for highly sensitive NH ₃ sensor application. Journal of Hazardous Materials, 2018, 353, 290-299.	6.5	94

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37	Carbon-encapsulated CoSe nanoparticles derived from metal-organic frameworks as advanced cathode material for Al-ion battery. <i>Journal of Power Sources</i> , 2018, 401, 6-12.	4.0	94
38	Dual-functional membrane decorated with flower-like metal-organic frameworks for highly efficient removal of insoluble emulsified oils and soluble dyes. <i>Journal of Hazardous Materials</i> , 2021, 408, 124444.	6.5	92
39	The interface effect of the effective electrical conductivity of carbon nanotube composites. <i>Nanotechnology</i> , 2007, 18, 255705.	1.3	89
40	Reusable membrane with multifunctional skin layer for effective removal of insoluble emulsified oils and soluble dyes. <i>Journal of Hazardous Materials</i> , 2021, 415, 125677.	6.5	86
41	Temperature dependence of the electrical properties of the carbon nanotube/polymer composites. <i>EXPRESS Polymer Letters</i> , 2009, 3, 769-777.	1.1	85
42	Keys to linking GCMC simulations and shale gas adsorption experiments. <i>Fuel</i> , 2017, 199, 14-21.	3.4	84
43	Large dielectric constant of the chemically purified carbon nanotube/polymer composites. <i>Materials Letters</i> , 2008, 62, 4229-4231.	1.3	82
44	Porous graphene sandwich/poly(vinylidene fluoride) composites with high dielectric properties. <i>Composites Science and Technology</i> , 2013, 86, 70-75.	3.8	79
45	Superior Selective CO ₂ Adsorption of C ₃ N Pores: GCMC and DFT Simulations. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31161-31169.	4.0	79
46	The Core/Shell Composite Nanowires Produced by Self-Scrolling Carbon Nanotubes onto Copper Nanowires. <i>ACS Nano</i> , 2009, 3, 2235-2240.	7.3	78
47	Gigantic enhancement in the dielectric properties of polymer-based composites using core/shell MWCNT/amorphous carbon nanohybrids. <i>Nanoscale</i> , 2015, 7, 3660-3667.	2.8	78
48	Multi-shelled ZnCo ₂ O ₄ yolk-shell spheres for high-performance acetone gas sensor. <i>Applied Surface Science</i> , 2018, 443, 114-121.	3.1	77
49	UV assisted ppb-level acetone detection based on hollow ZnO/MoS ₂ nanosheets core/shell heterostructures at low temperature. <i>Sensors and Actuators B: Chemical</i> , 2020, 317, 128208.	4.0	74
50	Chemically functionalized 3D reticular graphene oxide frameworks decorated with MOF-derived Co ₃ O ₄ : Towards highly sensitive and selective detection to acetone. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 289-298.	4.0	73
51	Flexible SnSe Photodetectors with Ultrabroad Spectral Response up to 10.6 μ m Enabled by Photobolometric Effect. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35250-35258.	4.0	73
52	SnO ₂ nanoparticles-modified 3D-multilayer MoS ₂ nanosheets for ammonia gas sensing at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128471.	4.0	71
53	Effective CO ₂ detection based on LaOCl-doped SnO ₂ nanofibers: Insight into the role of oxygen in carrier gas. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 725-734.	4.0	69
54	Superhigh-rate capacitive performance of heteroatoms-doped double shell hollow carbon spheres. <i>Carbon</i> , 2015, 86, 235-244.	5.4	68

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55	Insight of synergistic effect of different active metal ions in layered double hydroxides on their electrochemical behaviors. <i>Electrochimica Acta</i> , 2017, 253, 302-310.	2.6	67
56	On the origin of the high capacitance of carbon derived from seaweed with an apparently low surface area. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18998-19004.	5.2	65
57	Theoretical study of a tunable and strain-controlled nanoporous graphenylene membrane for multifunctional gas separation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15015-15021.	5.2	65
58	Great enhancement of CH ₄ sensitivity of SnO ₂ based nanofibers by heterogeneous sensitization and catalytic effect. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 393-401.	4.0	65
59	Sandwich-like graphene/polypyrrole/layered double hydroxide nanowires for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2016, 331, 67-75.	4.0	62
60	Co-MOF-74 derived Co ₃ O ₄ /graphene heterojunction nanoscrolls for ppb-level acetone detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 300, 127011.	4.0	62
61	Enhancing oil-in-water emulsion separation performance of polyvinyl alcohol hydrogel nanofibrous membrane by squeezing coalescence demulsification. <i>Journal of Membrane Science</i> , 2021, 630, 119324.	4.1	61
62	Room-temperature high-sensitivity detection of ammonia gas using the capacitance of carbon/silicon heterojunctions. <i>Energy and Environmental Science</i> , 2010, 3, 288.	15.6	60
63	Pinning Down the Anomalous Light Soaking Effect toward High-Performance and Fast-Response Perovskite Solar Cells: The Ion-Migration-Induced Charge Accumulation. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5069-5076.	2.1	60
64	Glass transition temperature of functionalized graphene-polymer composites. <i>Computational Materials Science</i> , 2013, 71, 66-71.	1.4	58
65	Extraction of kerogen from oil shale with supercritical carbon dioxide: Molecular dynamics simulations. <i>Journal of Supercritical Fluids</i> , 2016, 107, 499-506.	1.6	58
66	Self-powered multifunctional monitoring and analysis system based on dual-triboelectric nanogenerator and chitosan/activated carbon film humidity sensor. <i>Nano Energy</i> , 2022, 94, 106881.	8.2	58
67	Metal-organic frameworks derived ZnO@MoS ₂ nanosheets core/shell heterojunctions for ppb-level acetone detection: Ultra-fast response and recovery. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127430.	4.0	57
68	Insight into high areal capacitances of low apparent surface area carbons derived from nitrogen-rich polymers. <i>Carbon</i> , 2015, 94, 560-567.	5.4	56
69	Water-Soluble Salt Template-Assisted Anchor of Hollow FeS ₂ Nanoparticle Inside 3D Carbon Skeleton to Achieve Fast Potassium-Ion Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2101343.	10.2	56
70	GCMC simulations on the adsorption mechanisms of CH ₄ and CO ₂ in K-illite and their implications for shale gas exploration and development. <i>Fuel</i> , 2018, 224, 521-528.	3.4	55
71	Sandwich-like nitrogen-doped porous carbon/graphene nanoflakes with high-rate capacitive performance. <i>Nanoscale</i> , 2016, 8, 7889-7898.	2.8	54
72	Effects of Sulfur Doping and Humidity on CO ₂ Capture by Graphite Split Pore: A Theoretical Study. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8336-8343.	4.0	53

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73	Remarkable supercapacitor performance of petal-like LDHs vertically grown on graphene/polypyrrole nanoflakes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8964-8971.	5.2	53
74	Wafer-size growth of 2D layered SnSe films for UV-Visible-NIR photodetector arrays with high responsivity. <i>Nanoscale</i> , 2020, 12, 7358-7365.	2.8	53
75	Metal-organic frameworks derived hierarchical flower-like ZnO/ Co ₃ O ₄ heterojunctions for ppb-level acetone detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 325, 128814.	4.0	52
76	Inherent wettability of different rock surfaces at nanoscale: a theoretical study. <i>Applied Surface Science</i> , 2018, 434, 73-81.	3.1	51
77	A durable mesh decorated with polydopamine/graphene oxide for highly efficient oil/water mixture separation. <i>Applied Surface Science</i> , 2019, 479, 351-359.	3.1	51
78	Enhanced gas separation performance of Pebax mixed matrix membranes by incorporating ZIF-8 in situ inserted by multiwalled carbon nanotubes. <i>Separation and Purification Technology</i> , 2020, 248, 117080.	3.9	49
79	Molecular insights into carbon dioxide enhanced multi-component shale gas recovery and its sequestration in realistic kerogen. <i>Chemical Engineering Journal</i> , 2021, 425, 130292.	6.6	49
80	Excellent dielectric properties of Polyvinylidene fluoride composites based on sandwich structured MnO ₂ /graphene nanosheets/MnO ₂ . <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 67, 252-258.	3.8	47
81	Graphitic carbon nitride catalyzes selective oxidative dehydrogenation of propane. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118277.	10.8	47
82	Effect of chemisorption structure on the interfacial bonding characteristics of graphene-polymer composites. <i>Applied Surface Science</i> , 2012, 258, 2077-2082.	3.1	46
83	Electrical characterization and ammonia sensing properties of MoS ₂ /Si junction. <i>Journal of Alloys and Compounds</i> , 2015, 631, 105-110.	2.8	46
84	ZIF-8 derived ZnO polyhedrons decorated with biomass derived nitrogen-doped porous carbon for enhanced acetone sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129366.	4.0	46
85	Influence of Nanotube Chirality, Temperature, and Chemical Modification on the Interfacial Bonding between Carbon Nanotubes and Polyphenylacetylene. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16514-16520.	1.5	45
86	Investigation of pore size effects on adsorption behavior of shale gas. <i>Marine and Petroleum Geology</i> , 2019, 109, 1-8.	1.5	45
87	Multifunctional charged hydrogel nanofibrous membranes for metal ions contained emulsified oily wastewater purification. <i>Journal of Membrane Science</i> , 2021, 621, 118950.	4.1	45
88	Self-powered broadband, high-detectivity and ultrafast photodetectors based on Pd-MoS ₂ /Si heterojunctions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1131-1139.	1.3	44
89	Enhanced Room Temperature Oxygen Sensing Properties of LaOCl-SnO ₂ Hollow Spheres by UV Light Illumination. <i>ACS Sensors</i> , 2017, 2, 679-686.	4.0	43
90	Carbon Doping of Hexagonal Boron Nitride by Using CO Molecules. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9332-9339.	1.5	42

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91	How to select an optimal surfactant molecule to speed up the oil-detachment from solid surface: A computational simulation. <i>Chemical Engineering Science</i> , 2016, 147, 47-53.	1.9	42
92	Ultrahigh broadband photoresponse of SnO ₂ nanoparticle thin film/SiO ₂ /p-Si heterojunction. <i>Nanoscale</i> , 2017, 9, 8848-8857.	2.8	41
93	Enhanced energy storage density and discharge efficiency in potassium sodium niobite-based ceramics prepared using a new scheme. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2357-2365.	2.8	41
94	Self-assembly of double helical nanostructures inside carbon nanotubes. <i>Nanoscale</i> , 2013, 5, 4191.	2.8	40
95	Effective enhancement of gas separation performance in mixed matrix membranes using core/shell structured multi-walled carbon nanotube/graphene oxide nanoribbons. <i>Nanotechnology</i> , 2017, 28, 065702.	1.3	40
96	Bioinspired Anti-Oil-Fouling Hierarchical Structured Membranes Decorated with Urchin-Like γ -FeOOH Particles for Efficient Oil/Water Mixture and Crude Oil-in-Water Emulsion Separation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50962-50970.	4.0	40
97	Room temperature hydrogen sensor with ultrahigh-responsive characteristics based on Pd/SnO ₂ /SiO ₂ /Si heterojunctions. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 438-447.	4.0	39
98	Fabrication of Carbon Nanoscrolls from Monolayer Graphene Controlled by P-Doped Silicon Nanowires: A MD Simulation Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15217-15224.	1.5	37
99	Outstanding capacitive performance of ordered mesoporous carbon modified by anthraquinone. <i>Electrochimica Acta</i> , 2018, 259, 110-121.	2.6	37
100	Polycyclic Aromatic Hydrocarbons as a New Class of Promising Cathode Materials for Aluminum-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202114681.	7.2	37
101	Structure control of ultra-large graphene oxide sheets by the Langmuir-Blodgett method. <i>RSC Advances</i> , 2013, 3, 4680.	1.7	36
102	Theoretical Prediction of Hydrogen Separation Performance of Two-Dimensional Carbon Network of Fused Pentagon. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28502-28507.	4.0	36
103	Oil detachment from silica surface modified by carboxy groups in aqueous cetyltriethylammonium bromide solution. <i>Applied Surface Science</i> , 2015, 353, 1103-1111.	3.1	36
104	High hydrogen sensitivity of vertically standing layered MoS ₂ /Si heterojunctions. <i>Journal of Alloys and Compounds</i> , 2016, 682, 29-34.	2.8	36
105	Facile synthesis of La ₂ O ₂ CO ₃ nanoparticle films and its CO ₂ sensing properties and mechanisms. <i>Applied Surface Science</i> , 2017, 426, 725-733.	3.1	36
106	3D radial Co ₃ O ₄ nanorod cluster derived from cobalt-based layered hydroxide metal salt for enhanced trace acetone detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128926.	4.0	36
107	Ammonia sensitivity of amorphous carbon film/silicon heterojunctions. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	35
108	High-performance WO ₃ -WSe ₂ /SiO ₂ /n-Si heterojunction near-infrared photodetector via a homo-doping strategy. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5821-5829.	2.7	34

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109	Hydrogen storage and release by bending carbon nanotubes. <i>Computational Materials Science</i> , 2013, 68, 121-126.	1.4	33
110	585 divacancy-defective germanene as a hydrogen separation membrane: A DFT study. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 24189-24196.	3.8	33
111	High performance aluminum ion battery using polyaniline/ordered mesoporous carbon composite. <i>Journal of Power Sources</i> , 2020, 477, 228702.	4.0	33
112	Current-voltage characteristics and ethanol gas sensing properties of ZnO thin film/Si heterojunction at room temperature. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2021-2025.	1.3	32
113	Outstanding capacitive performance of reticular porous carbon/graphene sheets with superhigh surface area. <i>Electrochimica Acta</i> , 2016, 190, 923-931.	2.6	32
114	Stimulation of surface terminating group by carbon quantum dots for improving pseudocapacitance of Ti ₃ C ₂ T _x MXene based electrode. <i>Carbon</i> , 2021, 180, 118-126.	5.4	32
115	Highly enhanced sensitivity of hydrogen sensors using novel palladium-decorated graphene nanoribbon film/SiO ₂ /Si structures. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15931-15937.	5.2	31
116	¹²⁵ I-Hydrogen of Polythiophene Induced Aluminum Ion Storage for High-Performance Al-Polythiophene Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46065-46072.	4.0	31
117	High-performance aluminum-polyaniline battery based on the interaction between aluminum ion and -NH groups. <i>Science China Materials</i> , 2021, 64, 318-328.	3.5	31
118	Radial Collapse of Single-Walled Carbon Nanotubes Induced by the Cu ₂ O Surface. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3120-3126.	1.5	30
119	Ultrafast breathing humidity sensing properties of low-dimensional Fe-doped SnO ₂ flower-like spheres. <i>RSC Advances</i> , 2016, 6, 27008-27015.	1.7	30
120	Bifunctional petaloid nickel manganese layered double hydroxides decorated on a freestanding carbon foam for flexible asymmetric supercapacitor and oxygen evolution. <i>Electrochimica Acta</i> , 2017, 252, 275-285.	2.6	30
121	Influence of Solid Surface and Functional Group on the Collapse of Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2100-2107.	1.5	28
122	Effect of ethanol gas on the electrical properties of ZnO nanorods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1056-1060.	1.3	28
123	Mechanism of oil molecules transportation in nano-sized shale channel: MD simulation. <i>RSC Advances</i> , 2015, 5, 25684-25692.	1.7	28
124	Two-dimensional graphene oxide membrane for H ₂ /CH ₄ separation: Insights from molecular dynamics simulations. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 30653-30660.	3.8	28
125	Revealing the impacting factors of cathodic carbon catalysts for Li-CO ₂ batteries in the pore-structure point of view. <i>Electrochimica Acta</i> , 2019, 311, 41-49.	2.6	28
126	One-step synthesis of a robust and anti-oil-fouling biomimetic cactus-like hierarchical architecture for highly efficient oil/water separation. <i>Environmental Science: Nano</i> , 2020, 7, 903-911.	2.2	28

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127	Self-assembly of C4H-type hydrogenated graphene. <i>Nanoscale</i> , 2013, 5, 11132.	2.8	27
128	Hydrogen gas sensing properties of Pd/a-C:Pd/SiO ₂ /Si structure at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 796-801.	4.0	27
129	Growth and humidity-dependent electrical properties of bulk-like MoS ₂ thin films on Si. <i>RSC Advances</i> , 2015, 5, 74329-74335.	1.7	27
130	Meâ€“Nâ€“C (Me = Fe, Cu, and Co) nanosheet as a promising charge-controlled CO ₂ capture material. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12404-12410.	5.2	27
131	Charge-controlled switchable H ₂ storage on conductive borophene nanosheet. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20150-20157.	3.8	26
132	Oxygen vacancies enhanced photoresponsive performance of ZnO nanoparticles thin film/Si heterojunctions for ultraviolet/infrared photodetector. <i>Journal of Alloys and Compounds</i> , 2019, 797, 1224-1231.	2.8	26
133	Layered double hydroxides derived NiCo-sulfide as a cathode material for aluminum ion batteries. <i>Electrochimica Acta</i> , 2020, 344, 136174.	2.6	26
134	Bimetallic metalâ€“organic frameworks derived hierarchical flower-like Zn-doped Co ₃ O ₄ for enhanced acetone sensing properties. <i>Applied Surface Science</i> , 2021, 565, 150520.	3.1	26
135	The miscible behaviors and mechanism of CO ₂ /CH ₄ /C ₃ H ₈ /N ₂ and crude oil in nanoslits: A molecular dynamics simulation study. <i>Fuel</i> , 2021, 304, 121461.	3.4	26
136	Humidity sensitive properties of amorphous (K,Na)NbO ₃ lead free thin films. <i>Ceramics International</i> , 2014, 40, 10263-10267.	2.3	25
137	High hydrogen response of Pd/TiO ₂ /SiO ₂ /Si multilayers at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2014, 205, 255-260.	4.0	25
138	Excellent dielectric properties of PVDF-based composites filled with carbonized PAN/PEG copolymer fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 87, 46-53.	3.8	25
139	Dynamics and miscible behaviors of hydrocarbon gas and crude oil in nanoslits: Effects of light gas type and crude oil components. <i>Chemical Engineering Journal</i> , 2021, 405, 127012.	6.6	25
140	Anomalous positive magnetoresistance in Coâ€“C ₁ â€“x granular films on Si substrates. <i>Journal of Applied Physics</i> , 2004, 95, 1906-1910.	1.1	24
141	Small graphite nanoflakes as an advanced cathode material for aluminum ion batteries. <i>Chemical Communications</i> , 2020, 56, 1593-1596.	2.2	24
142	Microphone-like Cu-CAT-1 hierarchical structures with ultra-low oil adhesion for highly efficient oil/water separation. <i>Separation and Purification Technology</i> , 2020, 241, 116688.	3.9	24
143	Critical factors controlling adsorption capacity of shale gas in Wufeng-Longmaxi formation, Sichuan Basin: Evidences from both experiments and molecular simulations. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 88, 103774.	2.1	24
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