Qingzhong Xue

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

236 papers 8,681 citations

50 h-index 81 g-index

241 ext. papers

10,398 ext. citations

6.9 avg, IF

6.51 L-index

#	Paper	IF	Citations
236	A tin oxide/silicon heterojunction with a nano litchi shell structure for ultrafast, high-detectivity, self-powered broadband photodetectors. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 2049-2059	7.1	2
235	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	17.1	7
234	Sensing mechanism of acetone adsorption on charged ZnO and ZnSe surfaces: Insights from DFT calculations. <i>Materials Today Communications</i> , 2022 , 31, 103238	2.5	1
233	Plate-barrier architecture of rGO-TiO2 derived from MXene for constructing well-aligned polymer nanocomposites with excellent dielectric performance. <i>Composites Science and Technology</i> , 2022 , 218, 109191	8.6	0
232	The miscible behaviors of C3H8/C8H18(C7H17N) system in nanoslits: Effects of pore size and rock surface wettability. <i>Chemical Engineering Journal</i> , 2022 , 431, 133988	14.7	
231	Multifunctional superwetting positively charged foams for continuous oil/water emulsion separation and removal of hazardous pollutants from water. <i>Separation and Purification Technology</i> , 2022 , 289, 120683	8.3	2
230	The effect of gas injection velocity and pore morphology on displacement mechanisms in porous media based on CFD approach. <i>Journal of Natural Gas Science and Engineering</i> , 2022 , 101, 104558	4.6	O
229	Trace nitrogen-incorporation stimulates dual active sites of nickel catalysts for efficient hydrogen oxidation electrocatalysis. <i>Chemical Engineering Journal</i> , 2022 , 445, 136700	14.7	2
228	Robust modified nylon mesh for the separation of crude-oil/water emulsion based on the coupling of squeezing coalescence demulsification and sieving separation. <i>Separation and Purification Technology</i> , 2022 , 295, 121319	8.3	2
227	Polycyclic Aromatic Hydrocarbons as a New Class of Promising Cathode Materials for Aluminum-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 61, e202114681	16.4	7
226	End Group Modification for Black Phosphorus: Simultaneous Improvement of Chemical Stability and Gas Sensing Performance. <i>ACS Applied Materials & Description of Chemical Stability and Gas Sensing Performance</i> . <i>ACS Applied Materials & Description of Chemical Stability and Gas Sensing Performance</i> . <i>ACS Applied Materials & Description of Chemical Stability and Gas Sensing Performance</i> . <i>ACS Applied Materials & Description of Chemical Stability and Gas Sensing Performance</i> . <i>ACS Applied Materials & Description of Chemical Stability and Gas Sensing Performance</i> . <i>ACS Applied Materials & Description of Chemical Stability and Gas Sensing Performance</i> . <i>ACS Applied Materials & Description of Chemical Stability and Gas Sensing Performance</i> . <i>ACS Applied Materials & Description of Chemical Stability (Chemical Stability Chemical Stability Chemical Stability Chemical Stability Chemical Stability (Chemical Stability Chemical Stability Chemical Stability Chemical Stability Chemical Stability (Chemical Stability Chemical Stability Chemical Stability Chemical Stability Chemical Stability (Chemical Stability Chemical Stability Chemical Stability Chemical Stability Chemical Stability (Chemical Stability Chemical Stability Chemical Stability Chemical Stability Chemical Stability (Chemical Stability Chemical Stability Chemical Stability Chemical Stability Chemical Stability Chemical Stability Chemical Stability (Chemical Stability Chemical Stability Chemical Stability Chemical Stability Chemical Stability (Chemical Stability Chemical Stability Chemical Stability Chemical Stability Chemical Stability (Chemical Stability Chemical Stability Chemical Stability Chemical Stability Chemical Stability Chemical Stability Chemical Stability (Chemical Stability Chemical Stabilit</i>	9.5	3
225	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	8.5	15
224	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	4.6	9
223	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	12.8	43
222	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	14.7	8
221	High-performance aluminum-polyaniline battery based on the interaction between aluminum ion and -NH groups. <i>Science China Materials</i> , 2021 , 64, 318-328	7.1	12
220	3D radial Co3O4 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	8.5	15

219	Multifunctional charged hydrogel nanofibrous membranes for metal ions contained emulsified oily wastewater purification. <i>Journal of Membrane Science</i> , 2021 , 621, 118950	9.6	21
218	Ni-doped brochantite@copper hydroxide hierarchical structures on copper mesh with ultrahigh oil-resistance for high-efficiency oil/water separation. <i>Surface and Coatings Technology</i> , 2021 , 406, 1266	424	6
217	CHIand COIAdsorption Mechanism in Kaolinite Slit Nanopores as Studied by the Grand Canonical Monte Carlo Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2021 , 21, 108-119	1.3	1
216	Improving the performance of lithium ion capacitor by stabilizing anode working potential using CoSe2 nanoparticles embedded nitrogen-doped hard carbon microspheres. <i>Electrochimica Acta</i> , 2021 , 370, 137717	6.7	2
215	Water-Soluble Salt Template-Assisted Anchor of Hollow FeS2 Nanoparticle Inside 3D Carbon Skeleton to Achieve Fast Potassium-Ion Storage. <i>Advanced Energy Materials</i> , 2021 , 11, 2101343	21.8	12
214	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	9.6	23
213	Stimulation of surface terminating group by carbon quantum dots for improving pseudocapacitance of Ti3C2Tx MXene based electrode. <i>Carbon</i> , 2021 , 180, 118-126	10.4	6
212	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	12.8	32
211	Hierarchical superhydrophobic polydimethylsiloxane/copper terephthalate/polyurethane sponge for highly efficient oil/water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 630, 127635	5.1	7
210	Amorphous Se species anchored into enclosed carbon skeleton bridged by chemical bonding toward advanced K-Se batteries. <i>Journal of Energy Chemistry</i> , 2021 , 61, 319-326	12	4
209	Bimetallic metalbrganic frameworks derived hierarchical flower-like Zn-doped Co3O4 for enhanced acetone sensing properties. <i>Applied Surface Science</i> , 2021 , 565, 150520	6.7	6
208	The miscible behaviors and mechanism of CO2/CH4/C3H8/N2 and crude oil in nanoslits: A molecular dynamics simulation study. <i>Fuel</i> , 2021 , 304, 121461	7.1	3
207	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	14.7	25
206	Bioinspired Anti-Oil-Fouling Hierarchical Structured Membranes Decorated with Urchin-Like FeOOH Particles for Efficient Oil/Water Mixture and Crude Oil-in-Water Emulsion Separation. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> 12, 50962-50970	9.5	11
205	UV assisted ppb-level acetone detection based on hollow ZnO/MoS2 nanosheets core/shell heterostructures at low temperature. <i>Sensors and Actuators B: Chemical</i> , 2020 , 317, 128208	8.5	43
204	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, 1170	8 <mark>8</mark> .3	22
203	Wafer-size growth of 2D layered SnSe films for UV-Visible-NIR photodetector arrays with high responsitivity. <i>Nanoscale</i> , 2020 , 12, 7358-7365	7.7	27
202	Folding 2D Graphene Nanoribbons into 3D Nanocages Induced by Platinum Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10495-10501	3.8	1

201	The miscible behaviors of C10H22(C7H17N)/C3H8 system: Insights from molecular dynamics simulations. <i>Fuel</i> , 2020 , 279, 118445	7.1	9
200	SnO2 nanoparticles-modified 3D-multilayer MoS2 nanosheets for ammonia gas sensing at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128471	8.5	35
199	High-performance aqueous sodium-ion battery using a hybrid electrolyte with a wide electrochemical stability window <i>RSC Advances</i> , 2020 , 10, 25496-25499	3.7	5
198	Autonomous Drug Release Systems with Disease Symptom-Associated Triggers. <i>Advanced Intelligent Systems</i> , 2020 , 2, 1900124	6	6
197	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	8.3	16
196	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	6	14
195	Layered double hydroxides derived NiCo-sulfide as a cathode material for aluminum ion batteries. <i>Electrochimica Acta</i> , 2020 , 344, 136174	6.7	15
194	Review Dpen-Framework Structure Based Cathode Materials Coupled with Metallic Anodes for Rechargeable Multivalent Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 160530	3.9	3
193	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	7.1	20
192	Doping-induced enhancement of CO2 adsorption on negatively charged C3N nanosheet: Insights from DFT calculations. <i>Chemical Engineering Journal</i> , 2020 , 387, 123403	14.7	10
191	Metal-organic frameworks derived ZnO@MoS nanosheets core/shell heterojunctions for ppb-level acetone detection: Ultra-fast response and recovery. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 1274	1 <mark>3</mark> 0 ⁵	34
190	Small graphite nanoflakes as an advanced cathode material for aluminum ion batteries. <i>Chemical Communications</i> , 2020 , 56, 1593-1596	5.8	13
189	Metal-organic frameworks derived hierarchical flower-like ZnO/ Co3O4 heterojunctions for ppb-level acetone detection. <i>Sensors and Actuators B: Chemical</i> , 2020 , 325, 128814	8.5	19
188	High performance aluminum ion battery using polyaniline/ordered mesoporous carbon composite. Journal of Power Sources, 2020 , 477, 228702	8.9	13
187	Flexible SnSe Photodetectors with Ultrabroad Spectral Response up to 10.6 h Enabled by Photobolometric Effect. ACS Applied Materials & Interfaces, 2020, 12, 35250-35258	9.5	33
186	Great Enhancement of Self-Powered Photoresponse Performance of C3H8NSi-TiO2 NRAs/n-Si Heterojunction by Build-In and Build-Out Electric Field Jointly Promoting Carrier Separation. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000501	6.4	6
185	Theoretical study of strain-controlled C2X (XI≢IN, O) membrane for CO2/C2H2 separation. <i>Applied Surface Science</i> , 2020 , 530, 147250	6.7	6
184	Surface lattice reconstruction enhanced the photoresponse performance of a self-powered ZnO nanorod arrays/Si heterojunction photodetector. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 17440-17449	9 ^{7.1}	5

(2019-2020)

183	Adsorption and absorption of supercritical methane within shale kerogen slit. <i>Journal of Molecular Liquids</i> , 2020 , 320, 114364	6	9	
182	EHydrogen of Polythiophene Induced Aluminum Ion Storage for High-Performance Al-Polythiophene Batteries. <i>ACS Applied Materials & Date of the Polythiophene Batteries</i> (12, 46065-46072)	9.5	11	
181	Embedded SnO2/Diatomaceous earth composites for fast humidity sensing and controlling properties. <i>Sensors and Actuators B: Chemical</i> , 2020 , 303, 127137	8.5	9	
180	Graphitic carbon nitride catalyzes selective oxidative dehydrogenation of propane. <i>Applied Catalysis B: Environmental</i> , 2020 , 262, 118277	21.8	27	
179	Co-MOF-74 derived Co3O4/graphene heterojunction nanoscrolls for ppb-level acetone detection. <i>Sensors and Actuators B: Chemical</i> , 2019 , 300, 127011	8.5	38	
178	Solution quenched in-situ growth of hierarchical flower-like NiFe2O4/Fe2O3 heterojunction for wide-range light absorption. <i>Journal of Power Sources</i> , 2019 , 440, 227120	8.9	9	
177	Charge-controlled switchable H2 storage on conductive borophene nanosheet. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 20150-20157	6.7	17	
176	Investigation of pore size effects on adsorption behavior of shale gas. <i>Marine and Petroleum Geology</i> , 2019 , 109, 1-8	4.7	27	
175	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, 12	224:723	31 ¹⁶	
174	Revealing the impacting factors of cathodic carbon catalysts for Li-CO2 batteries in the pore-structure point of view. <i>Electrochimica Acta</i> , 2019 , 311, 41-49	6.7	17	
173	A ZIF-8@H:ZnO coreEhell nanorod arrays/Si heterojunction self-powered photodetector with ultrahigh performance. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5172-5183	7.1	11	
172	A hierarchical structured steel mesh decorated with metal organic framework/graphene oxide for high-efficient oil/water separation. <i>Journal of Hazardous Materials</i> , 2019 , 373, 725-732	12.8	65	
171	Flexible self-powered high-performance ammonia sensor based on Au-decorated MoSe2 nanoflowers driven by single layer MoS2-flake piezoelectric nanogenerator. <i>Nano Energy</i> , 2019 , 65, 103	39 ¹⁷ 4 ¹	136	
170	TiO@TiOHx core-shell nanoparticle film/Si heterojunction for ultrahigh detectivity and sensitivity broadband photodetector. <i>Nanotechnology</i> , 2019 , 30, 415203	3.4	4	
169	A durable mesh decorated with polydopamine/graphene oxide for highly efficient oil/water mixture separation. <i>Applied Surface Science</i> , 2019 , 479, 351-359	6.7	38	
168	High-efficiency separation performance of oil-water emulsions of polyacrylonitrile nanofibrous membrane decorated with metal-organic frameworks. <i>Applied Surface Science</i> , 2019 , 476, 61-69	6.7	71	
167	Layer-by-layer self-assembly of polyaniline nanofibers/TiO nanotubes heterojunction thin film for ammonia detection at room temperature. <i>Nanotechnology</i> , 2019 , 30, 135501	3.4	15	
166	Critical factors controlling shale gas adsorption mechanisms on Different Minerals Investigated Using GCMC simulations. <i>Marine and Petroleum Geology</i> , 2019 , 100, 31-42	4.7	14	

165	Confined hetero double helix structure induced by graphene nanoribbon. 2D Materials, 2019, 6, 034001	5.9	2
164	Numerical simulation of enhancing shale gas recovery using electrical resistance heating method. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 128, 1218-1228	4.9	10
163	Multi-shelled ZnCo2O4 yolk-shell spheres for high-performance acetone gas sensor. <i>Applied Surface Science</i> , 2018 , 443, 114-121	6.7	49
162	Synthesis of nanowire bundle-like WO-WO heterostructures for highly sensitive NH sensor application. <i>Journal of Hazardous Materials</i> , 2018 , 353, 290-299	12.8	74
161	Ultrahigh photosensitivity and detectivity of hydrogen-treated TiO2 nanorod array/SiO2/Si heterojunction broadband photodetectors and its mechanism. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2319-2328	7.1	14
160	Charge-modulated CO2 capture of C3N nanosheet: Insights from DFT calculations. <i>Chemical Engineering Journal</i> , 2018 , 338, 92-98	14.7	87
159	GCMC simulations on the adsorption mechanisms of CH4 and CO2 in K-illite and their implications for shale gas exploration and development. <i>Fuel</i> , 2018 , 224, 521-528	7.1	36
158	S-graphite slit pore: A superior selective adsorbent for light hydrocarbons. <i>Applied Surface Science</i> , 2018 , 444, 772-779	6.7	11
157	Ultra-sensitive NH sensor based on flower-shaped SnS nanostructures with sub-ppm detection ability. <i>Journal of Hazardous Materials</i> , 2018 , 341, 159-167	12.8	94
156	Outstanding capacitive performance of ordered mesoporous carbon modified by anthraquinone. <i>Electrochimica Acta</i> , 2018 , 259, 110-121	6.7	29
155	Inherent wettability of different rock surfaces at nanoscale: a theoretical study. <i>Applied Surface Science</i> , 2018 , 434, 73-81	6.7	28
154	High-performance WO3½-WSe2/SiO2/n-Si heterojunction near-infrared photodetector via a homo-doping strategy. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5821-5829	7.1	23
153	Stable CoSe2/carbon nanodice@reduced graphene oxide composites for high-performance rechargeable aluminum-ion batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 2341-2347	35.4	169
152	Great enhancement of CH4 sensitivity of SnO2 based nanofibers by heterogeneous sensitization and catalytic effect. <i>Sensors and Actuators B: Chemical</i> , 2018 , 254, 393-401	8.5	46
151	Chemically functionalized 3D reticular graphene oxide frameworks decorated with MOF-derived Co3O4: Towards highly sensitive and selective detection to acetone. <i>Sensors and Actuators B: Chemical</i> , 2018 , 259, 289-298	8.5	50
150	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	8.9	65
149	MeNC (Me = Fe, Cu, and Co) nanosheet as a promising charge-controlled CO2 capture material. Journal of Materials Chemistry A, 2018 , 6, 12404-12410	13	21
148	Ultra-high selective capture of CO2 on one-sided N-doped carbon nanoscrolls. <i>Journal of CO2 Utilization</i> , 2017 , 18, 275-282	7.6	13

147	Effects of Sulfur Doping and Humidity on CO Capture by Graphite Split Pore: A Theoretical Study. <i>ACS Applied Materials & Doping amp; Interfaces</i> , 2017 , 9, 8336-8343	9.5	34
146	Keys to linking GCMC simulations and shale gas adsorption experiments. <i>Fuel</i> , 2017 , 199, 14-21	7.1	53
145	Defective germanene as a high-efficiency helium separation membrane: a first-principles study. <i>Nanotechnology</i> , 2017 , 28, 135703	3.4	11
144	Functionalization of petroleum coke-based mesoporous carbon for synergistically enhanced capacitive performance. <i>Journal of Materials Research</i> , 2017 , 32, 1248-1257	2.5	4
143	Enhanced Room Temperature Oxygen Sensing Properties of LaOCl-SnO Hollow Spheres by UV Light Illumination. <i>ACS Sensors</i> , 2017 , 2, 679-686	9.2	31
142	Theoretical study of H 2 separation performance of two-dimensional graphitic carbon oxide membrane. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 13120-13126	6.7	14
141	Mixed Matrix Membranes with Excellent CO2 Capture Induced by Nano-Carbon Hybrids. <i>ChemNanoMat</i> , 2017 , 3, 560-568	3.5	8
140	Ultrahigh broadband photoresponse of SnO nanoparticle thin film/SiO/p-Si heterojunction. <i>Nanoscale</i> , 2017 , 9, 8848-8857	7.7	26
139	Ultrahigh permittivity of polymer nanocomposites based on surface-modified amorphous carbon/MWCNTs shell/core structured nanohybrids. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 100, 324-332	8.4	8
138	Remarkable supercapacitor performance of petal-like LDHs vertically grown on graphene/polypyrrole nanoflakes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8964-8971	13	41
137	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	9.6	122
136	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, 0657	7ð2 ¹	31
135	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	6.4	43
134	Molecular Simulation of Oil Mixture Adsorption Character in Shale System. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 6198-6209	1.3	8
133	Superior Selective CO Adsorption of CN Pores: GCMC and DFT Simulations. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 31161-31169	9.5	60
132	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	6.7	54
131	Fluorine-rich carbon nanoscrolls for CO2/CO (C2H2) adsorptive separation. <i>Journal of CO2 Utilization</i> , 2017 , 21, 429-435	7.6	8
130	Electrostatic Self-Assembly of Sandwich-Like CoAl-LDH/Polypyrrole/Graphene Nanocomposites with Enhanced Capacitive Performance. <i>ACS Applied Materials & Description of Sandwich Enhanced Capacitive Performance and Sandwich Enhanced Capacitive Performance Capa</i>	9.5	81

129	585 divacancy-defective germanene as a hydrogen separation membrane: A DFT study. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 24189-24196	6.7	27
128	Facile synthesis of La2O2CO3 nanoparticle films and Its CO2 sensing properties and mechanisms. <i>Applied Surface Science</i> , 2017 , 426, 725-733	6.7	20
127	Bifuntional 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	6.7	24
126	Extracting the inner wall from nested double-walled carbon nanotube by platinum nanowire: molecular dynamics simulations. <i>RSC Advances</i> , 2017 , 7, 39480-39489	3.7	4
125	Pore-scale characterization of tight sandstone in Yanchang Formation Ordos Basin China using micro-CT and SEM imaging from nm- to cm-scale. <i>Fuel</i> , 2017 , 209, 254-264	7.1	75
124	Sulfur Nitrogen Codoped Graphite Slit-Pore for Enhancing Selective Carbon Dioxide Adsorption: Insights from Molecular Simulations. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8815-8823	8.3	17
123	Two-dimensional graphene oxide membrane for H2/CH4 separation: Insights from molecular dynamics simulations. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 30653-30660	6.7	18
122	Effect of the Wettability on Two-Phase Flow Inside Porous Medium at Nanoscale: Lattice Boltzmann Simulations. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 6620-6625	1.3	1
121	ZIF-derived porous ZnO-Co3O4 hollow polyhedrons heterostructure with highly enhanced ethanol detection performance. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 523-532	8.5	76
120	Layered double hydroxides toward high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15460-15485	13	188
119	Effective CO2 detection based on LaOCl-doped SnO2 nanofibers: Insight into the role of oxygen in carrier gas. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 725-734	8.5	48
118	Graphene oxide/polyacrylonitrile fiber hierarchical-structured membrane for ultra-fast microfiltration of oil-water emulsion. <i>Chemical Engineering Journal</i> , 2017 , 307, 643-649	14.7	229
117	Quantitative Characterization of the Effect of Interfacial Fluid Layer on Water Flow Inside Nano-Porous Medium Using the Lattice Boltzmann Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 6216-6223	1.3	1
116	Extraction of kerogen from oil shale with supercritical carbon dioxide: Molecular dynamics simulations. <i>Journal of Supercritical Fluids</i> , 2016 , 107, 499-506	4.2	35
115	Sandwich-like graphene/polypyrrole/layered double hydroxide nanowires for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2016 , 331, 67-75	8.9	54
114	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	13	47
113	Self-Assembly of Hydrofluorinated Janus Graphene Monolayer: A Versatile Route for Designing Novel Janus Nanoscrolls. <i>Scientific Reports</i> , 2016 , 6, 26914	4.9	15
112	Super flexibility and stability of graphene nanoribbons under severe twist. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18406-13	3.6	15

(2015-2016)

111	High hydrogen sensitivity of vertically standing layered MoS2/Si heterojunctions. <i>Journal of Alloys and Compounds</i> , 2016 , 682, 29-34	5.7	32
110	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	17.1	127
109	Ultra-high dielectric constant of poly(vinylidene fluoride) composites filled with hydroxyl modified graphite powders. <i>Polymer Composites</i> , 2016 , 37, 327-333	3	7
108	Room temperature hydrogen sensor with ultrahigh-responsive characteristics based on Pd/SnO2/SiO2/Si heterojunctions. <i>Sensors and Actuators B: Chemical</i> , 2016 , 227, 438-447	8.5	31
107	Self-powered broadband, high-detectivity and ultrafast photodetectors based on Pd-MoS2/Si heterojunctions. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1131-9	3.6	37
106	Sandwich-like nitrogen-doped porous carbon/graphene nanoflakes with high-rate capacitive performance. <i>Nanoscale</i> , 2016 , 8, 7889-98	7.7	48
105	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	4.4	33
104	Effect of interfacial layer on water flow in nanochannels: Lattice Boltzmann simulations. <i>Physica B: Condensed Matter</i> , 2016 , 487, 18-24	2.8	9
103	Outstanding capacitive performance of reticular porous carbon/graphene sheets with superhigh surface area. <i>Electrochimica Acta</i> , 2016 , 190, 923-931	6.7	27
102	Helical wrapping of long-chained polyacetylene (PA) on metallic nanowires: MD simulation insights. <i>Computational Materials Science</i> , 2016 , 117, 103-109	3.2	4
101	Ultrafast breathing humidity sensing properties of low-dimensional Fe-doped SnO2 flower-like spheres. <i>RSC Advances</i> , 2016 , 6, 27008-27015	3.7	26
100	Preparation of spherical and dendritic CdS@TiO2 hollow double-shelled nanoparticles for photocatalysis. <i>Materials Letters</i> , 2016 , 166, 113-115	3.3	18
99	Enhanced photovoltaic characteristics of MoS2/Si hybrid solar cells by metal Pd chemical doping. <i>RSC Advances</i> , 2016 , 6, 1346-1350	3.7	12
98	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	8.5	286
97	Effective Enhancement of Humidity Sensing Characteristics of Novel Thermally Treated MWCNTs/Polyvinylpyrrolidone Film Caused by Interfacial Effect. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600153	4.6	9
96	Hierarchical NiO Nanoflake Arrays on Nickel Foam as a Supercapacitor Electrode with High Capacitance and High Rate Capability. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 4169-73	1.3	1
95	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	8.4	22
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83	Superhigh-rate capacitive performance of heteroatoms-doped double shell hollow carbon spheres. <i>Carbon</i> , 2015 , 86, 235-244	10.4	60
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A NOVEL MODEL OF DIELECTRIC CONSTANT OF TWO-PHASE COMPOSITES WITH INTERFACIAL