

# Jh Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

278  
papers

28,212  
citations

3333

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285  
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285  
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Challenge-driven printing strategies toward high-performance solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2601-2617.	5.2	3
2	Understanding, discovery, and synthesis of 2D materials enabled by machine learning. <i>Chemical Society Reviews</i> , 2022, 51, 1899-1925.	18.7	53
3	Molecular Engineering of 2D Nanomaterial Field-Effect Transistor Sensors: Fundamentals and Translation across the Innovation Spectrum. <i>Advanced Materials</i> , 2022, 34, e2106975.	11.1	11
4	Remote Floating-Gate Field-Effect Transistor with 2-Dimensional Reduced Graphene Oxide Sensing Layer for Reliable Detection of SARS-CoV-2 Spike Proteins. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 24187-24196.	4.0	10
5	Strategies for Rational Design of High-Power Lithium-Ion Batteries. <i>Energy and Environmental Materials</i> , 2021, 4, 19-45.	7.3	53
6	Statistical Modeling and Analysis of k-Layer Coverage of Two-Dimensional Materials in Inkjet Printing Processes. <i>Technometrics</i> , 2021, 63, 410-420.	1.3	1
7	Hybrid Modeling and Sensitivity Analysis on Reduced Graphene Oxide Field-Effect Transistor. <i>IEEE Nanotechnology Magazine</i> , 2021, 20, 404-416.	1.1	4
8	Additive manufacturing and applications of nanomaterial-based sensors. <i>Materials Today</i> , 2021, 48, 135-154.	8.3	46
9	Wastewater-Based Epidemiology for Managing the COVID-19 Pandemic. <i>ACS ES&amp;T Water</i> , 2021, 1, 1352-1362.	2.3	24
10	Tailoring MOF-derived porous carbon nanorods confined red phosphorous for superior potassium-ion storage. <i>Nano Energy</i> , 2021, 83, 105797.	8.2	44
11	Quantitative analysis of the synergistic effect of Au nanoparticles on SnO <sub>2</sub> -rGO nanocomposites for room temperature hydrogen sensing. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2377-2383.	1.3	11
12	Design and Stability Improvement of Pectin-Based Red Blood Cell-Mimicking Microcapsules for Oxygen Therapeutics. <i>Journal of Biomedical Nanotechnology</i> , 2021, 17, 1798-1805.	0.5	1
13	Selectivity of Per- and Polyfluoroalkyl Substance Sensors and Sorbents in Water. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 60789-60814.	4.0	39
14	Facile construction of novel BiOBr/Bi <sub>2</sub> O <sub>7</sub> /Cl <sub>2</sub> heterojunction composites with enhanced photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 21-33.	5.0	66
15	Calcium-oligochitosan-pectin microcarrier for colonic drug delivery. <i>Pharmaceutical Development and Technology</i> , 2020, 25, 260-265.	1.1	22
16	Sensitive field-effect transistor sensors with atomically thin black phosphorus nanosheets. <i>Nanoscale</i> , 2020, 12, 1500-1512.	2.8	30
17	A redox-active organic cation for safer high energy density Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17156-17162.	5.2	9
18	Ultrasensitive sensors based on aluminum oxide-protected reduced graphene oxide for phosphate ion detection in real water. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 936-942.	1.7	12

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19	From phosphorus nanorods/C to yolk-shell P@hollow C for potassium-ion batteries: high capacity with stable cycling performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7641-7646.	5.2	20
20	Maximizing Solar Energy Utilization through Multicriteria Pareto Optimization of Energy Harvesting and Regulating Smart Windows. <i>Cell Reports Physical Science</i> , 2020, 1, 100108.	2.8	9
21	Graphene-oxide loading on natural zeolite particles for enhancement of adsorption properties. <i>RSC Advances</i> , 2020, 10, 4589-4597.	1.7	12
22	Biosynthesis of silver nanoparticles using upland cress: purification, characterisation, and antimicrobial activity. <i>Micro and Nano Letters</i> , 2020, 15, 110-113.	0.6	4
23	Field-Effect Transistor Based on Percolation Network of Reduced Graphene Oxide for Real-Time ppb-Level Detection of Lead Ions in Water. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 115012.	0.9	15
24	Design of pectin-based bioink containing bioactive agent-loaded microspheres for bioprinting. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 067004.	0.6	12
25	Design of a Novel Oxygen Therapeutic Using Polymeric Hydrogel Microcapsules Mimicking Red Blood Cells. <i>Pharmaceutics</i> , 2019, 11, 583.	2.0	18
26	Zero-wastewater capacitive deionization: selective removal of heavy metal ions in tap water assisted by phosphate ions. <i>Environmental Science: Nano</i> , 2019, 6, 3225-3231.	2.2	12
27	Spatial distribution quantification and control of ink flakes in reduced graphene oxide FET inkjet printing. <i>Procedia Manufacturing</i> , 2019, 34, 19-25.	1.9	1
28	Semi-quantitative design of black phosphorous field-effect transistor sensors for heavy metal ion detection in aqueous media. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 491-502.	1.7	17
29	Electrochemical exfoliation of ultrathin ternary molybdenum sulfoselenide nanosheets to boost the energy-efficient hydrogen evolution reaction. <i>Nanoscale</i> , 2019, 11, 16200-16207.	2.8	25
30	Self-healing liquid metal nanoparticles encapsulated in hollow carbon fibers as a free-standing anode for lithium-ion batteries. <i>Nano Energy</i> , 2019, 62, 883-889.	8.2	93
31	Novel hybrid Si film/highly branched graphene nanosheets for anode materials in lithium-ion batteries. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 345201.	1.3	6
32	Multifunctional UV and Gas Sensors Based on Vertically Nanostructured Zinc Oxide: Volume Versus Surface Effect. <i>Sensors</i> , 2019, 19, 2061.	2.1	28
33	Stability improvement and characterization of bioprinted pectin-based scaffold. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2019, 17, 228080001880710.	0.7	14
34	Ultrasensitive antibiotic sensing using aptamer/graphene-based field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2019, 126, 664-671.	5.3	83
35	Selective removal of lead ions through capacitive deionization: Role of ion-exchange membrane. <i>Chemical Engineering Journal</i> , 2019, 361, 1535-1542.	6.6	89
36	Rapid detection of nutrients with electronic sensors: a review. <i>Environmental Science: Nano</i> , 2018, 5, 837-862.	2.2	41

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37	Rapid detection of single E. coli bacteria using a graphene-based field-effect transistor device. Biosensors and Bioelectronics, 2018, 110, 16-22.	5.3	144
38	A simplified formulation of wire-plate corona discharge in air: Application to the ion wind simulation. Journal of Electrostatics, 2018, 92, 54-65.	1.0	24
39	Nitrogen Vacancy Structure Driven Photoelectrocatalytic Degradation of 4-Chlorophenol Using Porous Graphitic Carbon Nitride Nanosheets. ACS Sustainable Chemistry and Engineering, 2018, 6, 6497-6506.	3.2	65
40	Superior electrocatalysis for hydrogen evolution with crumpled graphene/tungsten disulfide/tungsten trioxide ternary nanohybrids. Nano Energy, 2018, 47, 66-73.	8.2	71
41	Strategies for Improving the Performance of Sensors Based on Organic Field-Effect Transistors. Advanced Materials, 2018, 30, e1705642.	11.1	114
42	HF-free synthesis of Si/C yolk/shell anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 2593-2599.	5.2	84
43	Electrospinning pectin-based nanofibers: a parametric and cross-linker study. Applied Nanoscience (Switzerland), 2018, 8, 33-40.	1.6	38
44	Self-Healing Liquid Metal and Si Composite as a High-Performance Anode for Lithium-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 1395-1399.	2.5	64
45	Real-time electronic sensor based on black phosphorus/Au NPs/DTT hybrid structure: Application in arsenic detection. Sensors and Actuators B: Chemical, 2018, 257, 214-219.	4.0	41
46	Fe-Mn Mixed Oxide Catalysts Synthesized by One-Step Urea-Precipitation Method for the Selective Catalytic Reduction of NO <sub>x</sub> with NH <sub>3</sub> at Low Temperatures. Catalysis Letters, 2018, 148, 227-234.	1.4	31
47	Resonance-Frequency Modulation for Rapid, Point-of-Care Ebola-Glycoprotein Diagnosis with a Graphene-Based Field-Effect Biotransistor. Analytical Chemistry, 2018, 90, 14230-14238.	3.2	30
48	In Operando Impedance Spectroscopic Analysis on NiO-WO <sub>3</sub> Nanorod Heterojunction Random Networks for Room-Temperature H <sub>2</sub> S Detection. ACS Omega, 2018, 3, 18685-18693.	1.6	18
49	Phosphorus/Carbon Composite Anode for Potassium-Ion Batteries: Insights into High Initial Coulombic Efficiency and Superior Cyclic Performance. ACS Sustainable Chemistry and Engineering, 2018, 6, 16308-16314.	3.2	50
50	Enhancing Cyclic Performance and Rate Capability of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> for Lithium-Ion Batteries through Thin Carbon Coating. ChemistrySelect, 2018, 3, 10792-10798.	0.7	4
51	Real-time and selective detection of nitrates in water using graphene-based field-effect transistor sensors. Environmental Science: Nano, 2018, 5, 1990-1999.	2.2	41
52	Impedimetric phosphorene field-effect transistors for rapid detection of lead ions. Nanotechnology, 2018, 29, 375501.	1.3	9
53	Confined phosphorus in carbon nanotube-backboned mesoporous carbon as superior anode material for sodium/potassium-ion batteries. Nano Energy, 2018, 52, 1-10.	8.2	148
54	Facile Synthesis of Highly Dispersed Co <sub>3</sub> O <sub>4</sub> Nanoparticles on Expanded, Thin Black Phosphorus for a ppb-Level NO <sub>x</sub> Gas Sensor. ACS Sensors, 2018, 3, 1576-1583.	4.0	65

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55	Organometallic Precursor-Derived SnO <sub>2</sub> /Sn-Reduced Graphene Oxide Sandwiched Nanocomposite Anode with Superior Lithium Storage Capacity. ACS Applied Materials & Interfaces, 2018, 10, 26170-26177.	4.0	32
56	Directly Anchoring Highly Dispersed Copper Sites on Nitrogen-Doped Carbon for Enhanced Oxygen Reduction Electrocatalysis. ChemElectroChem, 2018, 5, 1822-1826.	1.7	21
57	Field-effect transistor biosensors with two-dimensional black phosphorus nanosheets. Biosensors and Bioelectronics, 2017, 89, 505-510.	5.3	206
58	Metal-Organic-Framework-Derived Fe-N/C Electrocatalyst with Five-Coordinated Fe-N Sites for Advanced Oxygen Reduction in Acid Media. ACS Catalysis, 2017, 7, 1655-1663.	5.5	483
59	A TiO <sub>2</sub> nanotube network electron transport layer for high efficiency perovskite solar cells. Physical Chemistry Chemical Physics, 2017, 19, 4956-4961.	1.3	33
60	Ultrasensitive detection of orthophosphate ions with reduced graphene oxide/ferritin field-effect transistor sensors. Environmental Science: Nano, 2017, 4, 856-863.	2.2	28
61	Interfacial charge transport behavior and thermal profiles of vertically oriented graphene-bridged supercapacitors. Physica Status Solidi (B): Basic Research, 2017, 254, 1600804.	0.7	1
62	Graphene-based electronic biosensors. Journal of Materials Research, 2017, 32, 2954-2965.	1.2	24
63	Healing of reduced graphene oxide with methane+ hydrogen plasma. Carbon, 2017, 120, 274-280.	5.4	43
64	MnO <sub>2</sub> -GO double-shelled sulfur (S@MnO <sub>2</sub> @GO) as a cathode for Li-S batteries with improved rate capability and cyclic performance. Journal of Power Sources, 2017, 356, 72-79.	4.0	58
65	Novel bioprinting method using a pectin based bioink. Technology and Health Care, 2017, 25, 651-655.	0.5	30
66	MOF-Based Metal-Doping-Induced Synthesis of Hierarchical Porous Cu <sub>2</sub> N/C Oxygen Reduction Electrocatalysts for Zn-Air Batteries. Small, 2017, 13, 1700740.	5.2	170
67	Porous carbon and Prussian blue composite: A highly sensitive electrochemical platform for glucose biosensing. Sensing and Bio-Sensing Research, 2017, 14, 47-53.	2.2	13
68	Highly porous N-doped graphene nanosheets for rapid removal of heavy metals from water by capacitive deionization. Chemical Communications, 2017, 53, 881-884.	2.2	84
69	Temperature-dependent Crystallization of MoS <sub>2</sub> Nanoflakes on Graphene Nanosheets for Electrocatalysis. Nanoscale Research Letters, 2017, 12, 479.	3.1	30
70	Field-Effect Transistor Biosensor for Rapid Detection of Ebola Antigen. Scientific Reports, 2017, 7, 10974.	1.6	112
71	Two-dimensional nanomaterial-based field-effect transistors for chemical and biological sensing. Chemical Society Reviews, 2017, 46, 6872-6904.	18.7	316
72	A room-temperature liquid metal-based self-healing anode for lithium-ion batteries with an ultra-long cycle life. Energy and Environmental Science, 2017, 10, 1854-1861.	15.6	219

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73	Interfacial charge transport behavior and thermal profiles of vertically oriented graphene-bridged supercapacitors (Phys. Status Solidi B 6/2017). Physica Status Solidi (B): Basic Research, 2017, 254, 1770232.	0.7	0
74	Electrocatalysts: MOF-Based Metal-Doping-Induced Synthesis of Hierarchical Porous Cu <sub>2</sub> N/C Oxygen Reduction Electrocatalysts for Zn-Air Batteries (Small 30/2017). Small, 2017, 13, .	5.2	1
75	Pulse-Driven Capacitive Lead Ion Detection with Reduced Graphene Oxide Field-Effect Transistor Integrated with an Analyzing Device for Rapid Water Quality Monitoring. ACS Sensors, 2017, 2, 1653-1661.	4.0	57
76	Enhanced adsorption removal of antibiotics from aqueous solutions by modified alginate/graphene double network porous hydrogel. Journal of Colloid and Interface Science, 2017, 507, 250-259.	5.0	115
77	Oxygen reduction reaction catalysts used in microbial fuel cells for energy-efficient wastewater treatment: a review. Materials Horizons, 2016, 3, 382-401.	6.4	322
78	In Situ Confinement Pyrolysis Transformation of ZIF-8 to Nitrogen-Enriched Meso-Microporous Carbon Frameworks for Oxygen Reduction. Advanced Functional Materials, 2016, 26, 8334-8344.	7.8	281
79	An amperometric glucose enzyme biosensor based on porous hexagonal boron nitride whiskers decorated with Pt nanoparticles. RSC Advances, 2016, 6, 92748-92753.	1.7	16
80	Decorating in situ ultrasmall tin particles on crumpled N-doped graphene for lithium-ion batteries with a long life cycle. Journal of Power Sources, 2016, 328, 482-491.	4.0	38
81	Nitrogen-boron Dipolar-doped Nanocarbon as a High-efficiency Electrocatalyst for Oxygen Reduction Reaction. Electrochimica Acta, 2016, 222, 481-487.	2.6	37
82	Lanthanum and Neodymium Doped Barium Ferrite-TiO <sub>2</sub> /MCNTs/poly(3-methyl thiophene) Composites with Nest Structures: Preparation, Characterization and Electromagnetic Microwave Absorption Properties. Scientific Reports, 2016, 6, 20496.	1.6	40
83	Design of Artificial Red Blood Cells using Polymeric Hydrogel Microcapsules: Hydrogel Stability Improvement and Polymer Selection. International Journal of Artificial Organs, 2016, 39, 518-523.	0.7	9
84	Alginate/graphene double-network nanocomposite hydrogel beads with low-swelling, enhanced mechanical properties, and enhanced adsorption capacity. Journal of Materials Chemistry A, 2016, 4, 10885-10892.	5.2	225
85	Nitrogen-doped graphene/CoNi alloy encased within bamboo-like carbon nanotube hybrids as cathode catalysts in microbial fuel cells. Journal of Power Sources, 2016, 307, 561-568.	4.0	128
86	Ultrasensitive Mercury Ion Detection Using DNA-Functionalized Molybdenum Disulfide Nanosheet/Gold Nanoparticle Hybrid Field-Effect Transistor Device. ACS Sensors, 2016, 1, 295-302.	4.0	103
87	3D dual-confined sulfur encapsulated in porous carbon nanosheets and wrapped with graphene aerogels as a cathode for advanced lithium sulfur batteries. Nanoscale, 2016, 8, 8228-8235.	2.8	99
88	Strongly Coupled Ternary Hybrid Aerogels of N-deficient Porous Graphitic-C <sub>3</sub> N <sub>4</sub> Nanosheets/N-Doped Graphene/NiFe-Layered Double Hydroxide for Solar-Driven Photoelectrochemical Water Oxidation. Nano Letters, 2016, 16, 2268-2277.	4.5	256
89	A novel gas sensor based on porous Ni(OH) <sub>2</sub> ultrathin nanosheet/reduced graphene oxide composites for room temperature detection of NO <sub>x</sub> . New Journal of Chemistry, 2016, 40, 4678-4686.	1.4	24
90	Batch and column adsorption of methylene blue by graphene/alginate nanocomposite: Comparison of single-network and double-network hydrogels. Journal of Environmental Chemical Engineering, 2016, 4, 147-156.	3.3	106

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91	Facile synthesis of three-dimensional graphene- $\epsilon$ soy protein aerogel composites for tetracycline adsorption. <i>Desalination and Water Treatment</i> , 2016, 57, 9510-9519.	1.0	32
92	BaFe <sub>12</sub> O <sub>19</sub> -chitosan Schiff-base Ag (I) complexes embedded in carbon nanotube networks for high-performance electromagnetic materials. <i>Scientific Reports</i> , 2015, 5, 12544.	1.6	13
93	Strongly Coupled 3D Hybrids of N-doped Porous Carbon Nanosheet/CoNi Alloy-Encapsulated Carbon Nanotubes for Enhanced Electrocatalysis. <i>Small</i> , 2015, 11, 5940-5948.	5.2	176
94	Development of a Microscale Red Blood Cell-Shaped Pectin-Oligochitosan Hydrogel System Using an Electro-spray-Vibration Method: Preparation and Characterization. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2015, 13, 326-331.	0.7	18
95	Hollow TiO <sub>2</sub> as an Anode for Lithium Ion Batteries: Synthesis and In Situ Visualization of State of Charge. <i>Advanced Electronic Materials</i> , 2015, 1, 1500256.	2.6	7
96	Nanomaterial-enabled Rapid Detection of Water Contaminants. <i>Small</i> , 2015, 11, 5336-5359.	5.2	108
97	Lithium-Ion Batteries: Hollow TiO <sub>2</sub> as an Anode for Lithium Ion Batteries: Synthesis and In Situ Visualization of State of Charge ( <i>Adv. Electron. Mater.</i> 12/2015). <i>Advanced Electronic Materials</i> , 2015, 1, .	2.6	0
98	Graphene-Based Materials for Photoanodes in Dye-Sensitized Solar Cells. <i>Frontiers in Energy Research</i> , 2015, 3, .	1.2	49
99	Controllable Synthesis and Tunable Photocatalytic Properties of Ti <sup>3+</sup> -doped TiO <sub>2</sub> . <i>Scientific Reports</i> , 2015, 5, 10714.	1.6	152
100	Improving cyclic performance of Si anode for lithium-ion batteries by forming an intermetallic skin. <i>RSC Advances</i> , 2015, 5, 38660-38664.	1.7	22
101	PECVD Synthesis of Vertically-Oriented Graphene: Mechanism and Plasma Sources. , 2015, , 19-34.		3
102	Three-dimensional carbon-coated Si/rGO nanostructures anchored by nickel foam with carbon nanotubes for Li-ion battery applications. <i>Nano Energy</i> , 2015, 15, 679-687.	8.2	55
103	Atmospheric PECVD Growth of Vertically-Oriented Graphene. , 2015, , 55-65.		0
104	Electrocatalysis: Strongly Coupled 3D Hybrids of N-doped Porous Carbon Nanosheet/CoNi Alloy-Encapsulated Carbon Nanotubes for Enhanced Electrocatalysis ( <i>Small</i> 44/2015). <i>Small</i> , 2015, 11, 5939-5939.	5.2	2
105	Metallic CoS <sub>2</sub> nanowire electrodes for high cycling performance supercapacitors. <i>Nanotechnology</i> , 2015, 26, 494001.	1.3	52
106	Decoration of vertical graphene with aerosol nanoparticles for gas sensing. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 314008.	1.3	11
107	Determination of metastable zone width and the primary nucleation kinetics of sodium sulfate. <i>Theoretical Foundations of Chemical Engineering</i> , 2015, 49, 869-876.	0.2	14
108	Novel hybrid Si film/carbon nanofibers as anode materials in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1947-1952.	5.2	28

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109	Amorphous MoS <sub>2</sub> /Cl <sub>y</sub> electrocatalyst supported by vertical graphene for efficient electrochemical and photoelectrochemical hydrogen generation. Energy and Environmental Science, 2015, 8, 862-868.	15.6	183
110	Co <sub>3</sub> O <sub>4</sub> nanoparticles embedded in nitrogen-doped porous carbon dodecahedrons with enhanced electrochemical properties for lithium storage and water splitting. Nano Energy, 2015, 12, 1-8.	8.2	210
111	Easy solid-phase synthesis of pH-insensitive heterogeneous CNTs/FeS Fenton-like catalyst for the removal of antibiotics from aqueous solution. Journal of Colloid and Interface Science, 2015, 444, 24-32.	5.0	66
112	Iron Oxide Supported Sulfhydryl-Functionalized Multiwalled Carbon Nanotubes for Removal of Arsenite from Aqueous Solution. ChemPlusChem, 2015, 80, 740-748.	1.3	16
113	Hydrogen Evolution: Perpendicularly Oriented MoSe <sub>2</sub> /Graphene Nanosheets as Advanced Electrocatalysts for Hydrogen Evolution (Small 4/2015). Small, 2015, 11, 508-508.	5.2	4
114	Investigation of NO <sub>2</sub> adsorption on reduced graphene oxide. Chemical Physics Letters, 2015, 622, 86-91.	1.2	15
115	Stabilizing MoS <sub>2</sub> Nanosheets through SnO <sub>2</sub> Nanocrystal Decoration for High-Performance Gas Sensing in Air. Small, 2015, 11, 2305-2313.	5.2	333
116	Hybrid Electrocatalysis: An Advanced Nitrogen-Doped Graphene/Cobalt-Embedded Porous Carbon Polyhedron Hybrid for Efficient Catalysis of Oxygen Reduction and Water Splitting (Adv. Funct. Mater.)	0.8	0
117	Emerging energy and environmental applications of vertically-oriented graphenes. Chemical Society Reviews, 2015, 44, 2108-2121.	18.7	269
118	Rational design of mesoporous NiFe-alloy-based hybrids for oxygen conversion electrocatalysis. Journal of Materials Chemistry A, 2015, 3, 7986-7993.	5.2	95
119	Graphene as a template and structural scaffold for the synthesis of a 3D porous bio-adsorbent to remove antibiotics from water. RSC Advances, 2015, 5, 27964-27969.	1.7	62
120	Porous Carbon Nanosheets Codoped with Nitrogen and Sulfur for Oxygen Reduction Reaction in Microbial Fuel Cells. ACS Applied Materials & Interfaces, 2015, 7, 18672-18678.	4.0	86
121	NiO-Microflower Formed by Nanowire-weaving Nanosheets with Interconnected Ni-network Decoration as Supercapacitor Electrode. Scientific Reports, 2015, 5, 11919.	1.6	92
122	Real-time detection of mercury ions in water using a reduced graphene oxide/DNA field-effect transistor with assistance of a passivation layer. Sensing and Bio-Sensing Research, 2015, 5, 97-104.	2.2	38
123	Vertically-Oriented Graphene for Sensing and Environmental Applications. , 2015, , 67-77.		1
124	A three-dimensionally interconnected carbon nanotube/layered MoS <sub>2</sub> nanohybrid network for lithium ion battery anode with superior rate capacity and long-cycle-life. Nano Energy, 2015, 16, 10-18.	8.2	155
125	Adsorption of ciprofloxacin onto graphene- soy protein biocomposites. New Journal of Chemistry, 2015, 39, 3333-3336.	1.4	57
126	Vertically-Oriented Graphene for Supercapacitors. , 2015, , 79-95.		1

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127	Vertically-Oriented Graphene for Other Energy Storage and Conversion Applications. , 2015, , 97-108.		0
128	One-pot synthesis of high-performance Co/graphene electrocatalysts for glucose fuel cells free of enzymes and precious metals. Chemical Communications, 2015, 51, 9354-9357.	2.2	52
129	Vertically-Oriented Graphene. , 2015, , .		23
130	Ultrahigh sensitivity and layer-dependent sensing performance of phosphorene-based gas sensors. Nature Communications, 2015, 6, 8632.	5.8	598
131	One-step, continuous synthesis of a spherical Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /graphene composite as an ultra-long cycle life lithium-ion battery anode. NPG Asia Materials, 2015, 7, e224-e224.	3.8	30
132	An Advanced Nitrogen-Doped Graphene/Cobalt-Embedded Porous Carbon Polyhedron Hybrid for Efficient Catalysis of Oxygen Reduction and Water Splitting. Advanced Functional Materials, 2015, 25, 872-882.	7.8	683
133	Three-dimensional graphene-based composites for energy applications. Nanoscale, 2015, 7, 6924-6943.	2.8	241
134	Brick-like N-doped graphene/carbon nanotube structure forming three-dimensional films as high performance metal-free counter electrodes in dye-sensitized solar cells. Journal of Power Sources, 2015, 273, 1048-1055.	4.0	64
135	A Hierarchical Tin/Carbon Composite as an Anode for Lithium-Ion Batteries with a Long Cycle Life. Angewandte Chemie - International Edition, 2015, 54, 1490-1493.	7.2	158
136	A high-performance catalyst support for methanol oxidation with graphene and vanadium carbonitride. Nanoscale, 2015, 7, 1301-1307.	2.8	75
137	Structure sensitivity of selective catalytic reduction of NO with propylene over Cu-doped Ti <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> catalysts. Applied Catalysis B: Environmental, 2015, 165, 519-528.	10.8	18
138	Perpendicularly Oriented MoSe <sub>2</sub> /Graphene Nanosheets as Advanced Electrocatalysts for Hydrogen Evolution. Small, 2015, 11, 414-419.	5.2	276
139	PECVD Synthesis of Vertically-Oriented Graphene: Precursor and Temperature Effects. , 2015, , 35-54.		2
140	The Properties of Vertically-Oriented Graphene. , 2015, , 11-18.		4
141	Multilayered Si Nanoparticle/Reduced Graphene Oxide Hybrid as a High-Performance Lithium-Ion Battery Anode. Advanced Materials, 2014, 26, 758-764.	11.1	387
142	Hydrogels: A Novel Red-Blood-Cell-Shaped Pectin-Oligochitosan Hydrogel System (Part. Part. Syst.) Tj ETQq0 0 0 rgBT, /Overlock 10 Tf 50		1,2
143	Surfactant-free synthesis of graphene-functionalized carbon nanotube film as a catalytic counter electrode in dye-sensitized solar cells. Journal of Power Sources, 2014, 247, 999-1004.	4.0	68
144	Nickel oxide hollow microsphere for non-enzyme glucose detection. Biosensors and Bioelectronics, 2014, 54, 251-257.	5.3	208

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145	Metal-Organic Framework-Derived Nitrogen-Doped Core-Shell-Structured Porous Fe/Fe <sub>3</sub> C@C Nanoboxes Supported on Graphene Sheets for Efficient Oxygen Reduction Reactions. <i>Advanced Energy Materials</i> , 2014, 4, 1400337.	10.2	512
146	Nanocarbon-based gas sensors: progress and challenges. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5573.	5.2	202
147	Controllable Synthesis of Hollow Si Anode for Long-Cycle-Life Lithium-Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 4326-4332.	11.1	193
148	Graphene-based sensors for detection of heavy metals in water: a review. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3957-3975.	1.9	163
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