

# Shun Mao

## List of Publications by Year in descending order

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164  
papers

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13099

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16183

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166  
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166  
docs citations

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times ranked

21153  
citing authors

#	ARTICLE	IF	CITATIONS
1	Persulfate-Induced Three Coordinate Nitrogen (N <sub>3</sub> C) Vacancies in Defective Carbon Nitride for Enhanced Photocatalytic H <sub>2</sub> O <sub>2</sub> Evolution. <i>Engineering</i> , 2023, 25, 214-221.	6.7	12
2	Recent advances in field-effect transistor sensing strategies for fast and highly efficient analysis of heavy metal ions. <i>Electrochemical Science Advances</i> , 2022, 2, e2100137.	2.8	10
3	Highly efficient photocatalytic H <sub>2</sub> O <sub>2</sub> production with cyano and SnO <sub>2</sub> co-modified g-C <sub>3</sub> N <sub>4</sub> . <i>Chemical Engineering Journal</i> , 2022, 428, 132531.	12.7	86
4	H <sub>2</sub> S sensing under various humidity conditions with Ag nanoparticle functionalized Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene field-effect transistors. <i>Journal of Hazardous Materials</i> , 2022, 424, 127492.	12.4	48
5	Selective Removal of Phenolic Compounds by Peroxydisulfate Activation: Inherent Role of Hydrophobicity and Interface ROS. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2665-2676.	10.0	83
6	Interconnected Mn-Doped Ni(OH) <sub>2</sub> Nanosheet Layer for Bifunctional Urea Oxidation and Hydrogen Evolution: The Relation between Current Drop and Urea Concentration during the Long-Term Operation. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 853-862.	7.6	16
7	Promotion of Phenol Electro-oxidation by Oxygen Evolution Reaction on an Active Electrode for Efficient Pollution Control and Hydrogen Evolution. <i>Environmental Science &amp; Technology</i> , 2022, 56, 5753-5762.	10.0	22
8	Photocatalytic H <sub>2</sub> O <sub>2</sub> production driven by cyclodextrin-pyrimidine polymer in a wide pH range without electron donor or oxygen aeration. <i>Applied Catalysis B: Environmental</i> , 2022, 314, 121485.	20.2	41
9	Single-Atom Pt-Functionalized Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Field-Effect Transistor for Volatile Organic Compound Gas Detection. <i>ACS Sensors</i> , 2022, 7, 1874-1882.	7.8	51
10	Demand, status, and prospect of antibiotics detection in the environment. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132383.	7.8	43
11	Enhanced peroxydisulfate oxidation via Cu(III) species with a Cu-MOF-derived Cu nanoparticle and 3D graphene network. <i>Journal of Hazardous Materials</i> , 2021, 403, 123691.	12.4	38
12	Thio-groups decorated covalent triazine frameworks for selective mercury removal. <i>Journal of Hazardous Materials</i> , 2021, 403, 123702.	12.4	60
13	A review on carbon and non-precious metal based cathode catalysts in microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3056-3089.	7.1	87
14	Peroxydisulfate activation by atomically-dispersed Fe-N <sub>x</sub> on N-doped carbon: Mechanism of singlet oxygen evolution for nonradical degradation of aqueous contaminants. <i>Chemical Engineering Journal</i> , 2021, 413, 127545.	12.7	102
15	Novel insights into the unique intrinsic sensing behaviors of 2D nanomaterials for volatile organic compounds: from graphene to MoS <sub>2</sub> and black phosphorous. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14411-14421.	10.3	22
16	Rapid synthesis of multifunctional β-cyclodextrin nanospheres as alkali-responsive nanocarriers and selective antibiotic adsorbents. <i>Chemical Communications</i> , 2021, 57, 1161-1164.	4.1	11
17	Ultrasensitive detection of disinfection byproduct trichloroacetamide in drinking water with Ag nanoprisms@MoS <sub>2</sub> heterostructure-based electrochemical sensor. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129526.	7.8	28
18	Label-Free, Fast Response, and Simply Operated Silver Ion Detection with a Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Field-Effect Transistor. <i>Analytical Chemistry</i> , 2021, 93, 8010-8018.	6.5	35

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19	Bifunctional Electrolyzation for Simultaneous Organic Pollutant Degradation and Hydrogen Generation. ACS ES&T Engineering, 2021, 1, 1360-1368.	7.6	16
20	Functionâ€Targeted Lanthanideâ€Anchored Polyoxometalateâ€Cyclodextrin Assembly: Discriminative Sensing of Inorganic Phosphate and Organophosphate. Advanced Functional Materials, 2021, 31, 2104572.	14.9	25
21	Ti3C2Tx MXene sensor for rapid Hg2+ analysis in high salinity environment. Journal of Hazardous Materials, 2021, 418, 126301.	12.4	27
22	Rapid and Sensitive Detection of <i>Mycobacterium tuberculosis</i> by an Enhanced Nanobiosensor. ACS Sensors, 2021, 6, 3367-3376.	7.8	26
23	The role of Fe-Nx single-atom catalytic sites in peroxymonosulfate activation: Formation of surface-activated complex and non-radical pathways. Chemical Engineering Journal, 2021, 423, 130250.	12.7	88
24	Bifunctional Catalytic Cooperativity on Nanoedge: Oriented Ceâ€Fe Bimetallic Fenton Electrocatalysts for Organic Pollutant Control. ACS ES&T Engineering, 2021, 1, 1618-1632.	7.6	16
25	MOF-derived metal-free N-doped porous carbon mediated peroxydisulfate activation via radical and non-radical pathways: Role of graphitic N and C O. Chemical Engineering Journal, 2020, 380, 122584.	12.7	124
26	Aeration-assisted sulfite activation with ferrous for enhanced chloramphenicol degradation. Chemosphere, 2020, 238, 124599.	8.2	21
27	Nickel-phosphate pompon flowers nanostructured network enables the sensitive detection of microRNA. Talanta, 2020, 209, 120511.	5.5	11
28	Tuning layered Fe-doped g-C3N4 structure through pyrolysis for enhanced Fenton and photo-Fenton activities. Carbon, 2020, 159, 461-470.	10.3	111
29	Heterogeneous Electro-Fenton catalysis with HKUST-1-derived Cu@C decorated in 3D graphene network. Chemosphere, 2020, 243, 125423.	8.2	47
30	One-pot synthesis of ultrafine NiO loaded and Ti3+ in-situ doped TiO2 induced by cyclodextrin for efficient visible-light photodegradation of hydrophobic pollutants. Chemical Engineering Journal, 2020, 402, 126211.	12.7	44
31	Highly Enhanced Gas Sensing Performance Using a 1T/2H Heterophase MoS <sub>2</sub> Field-Effect Transistor at Room Temperature. ACS Applied Materials & Interfaces, 2020, 12, 50610-50618.	8.0	64
32	Highly efficient chloramphenicol degradation by UV and UV/H <sub>2</sub> O <sub>2</sub> processes based on LED light source. Water Environment Research, 2020, 92, 2049-2059.	2.7	6
33	MnO <sub>2</sub> cacti-like nanostructured platform powers the enhanced electrochemical immunobiosensing of cortisol. Sensors and Actuators B: Chemical, 2020, 317, 128134.	7.8	16
34	Catalytic Performances of NiCuP@rGO and NiCuN@rGO for Oxygen Reduction and Oxygen Evolution Reactions in Alkaline Electrolyte. ChemistrySelect, 2020, 5, 5855-5863.	1.5	4
35	SnO <sub>2</sub> nanoparticles incorporated CuO nanopetals on graphene for high-performance room-temperature NO <sub>2</sub> sensor. Chemical Physics Letters, 2020, 750, 137485.	2.6	21
36	Using a strong chemical oxidant, potassium ferrate (K <sub>2</sub> FeO <sub>4</sub> ), in waste activated sludge treatment: A review. Environmental Research, 2020, 188, 109764.	7.5	71

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37	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.	3.4	12
38	High Anti-Interference $\text{Ti}_3\text{C}_2\text{T}_x$ MXene Field-Effect-Transistor-Based Alkali Indicator. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 32970-32978.	8.0	28
39	Exploring the mechanism of the $\text{Fe}(\text{III})$ -activated Fenton-like reaction based on a quantitative study. <i>New Journal of Chemistry</i> , 2020, 44, 8952-8959.	2.8	12
40	Environmental Analysis with 2D Transition-Metal Dichalcogenide-Based Field-Effect Transistors. <i>Nano-Micro Letters</i> , 2020, 12, 95.	27.0	73
41	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.	1.8	15
42	Highly sensitive and selective fluorescent detection of phosphate in water environment by a functionalized coordination polymer. <i>Water Research</i> , 2019, 163, 114883.	11.3	48
43	The role of structural elements and its oxidative products on the surface of ferrous sulfide in reducing the electron-withdrawing groups of tetracycline. <i>Chemical Engineering Journal</i> , 2019, 378, 122195.	12.7	24
44	Electrochemically Sensing of Trichloroacetic Acid with Iron(II) Phthalocyanine and Zn-Based Metal Organic Framework Nanocomposites. <i>ACS Sensors</i> , 2019, 4, 1934-1941.	7.8	71
45	Ultrasensitive antibiotic sensing with complementary strand DNA assisted aptamer/MoS <sub>2</sub> field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111711.	10.1	68
46	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.	3.4	17
47	Highly luminescent sensing for nitrofurans and tetracyclines in water based on zeolitic imidazolate framework-8 incorporated with dyes. <i>Talanta</i> , 2019, 204, 344-352.	5.5	71
48	Hexagonal $\text{K}_2\text{WO}_4$ Nanowires for the Adsorption of Methylene Blue. <i>ACS Applied Nano Materials</i> , 2019, 2, 3802-3812.	5.0	14
49	Persulfate and zero valent iron combined conditioning as a sustainable technique for enhancing dewaterability of aerobically digested sludge. <i>Chemosphere</i> , 2019, 232, 45-53.	8.2	39
50	Nanocomposites of Zr(IV)-Based Metal-Organic Frameworks and Reduced Graphene Oxide for Electrochemically Sensing Ciprofloxacin in Water. <i>ACS Applied Nano Materials</i> , 2019, 2, 2367-2376.	5.0	139
51	Prussian blue analog-derived 2D ultrathin $\text{CoFe}_2\text{O}_4$ nanosheets as high-activity electrocatalysts for the oxygen evolution reaction in alkaline and neutral media. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7328-7332.	10.3	75
52	Recent advances in sensitive and rapid mercury determination with graphene-based sensors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6616-6630.	10.3	73
53	Metal-organic framework-derived core-shell-structured nitrogen-doped $\text{Co}_x/\text{FeCo}@C$ hybrid supported by reduced graphene oxide sheets as high performance bifunctional electrocatalysts for ORR and OER. <i>Journal of Catalysis</i> , 2019, 371, 185-195.	6.2	78
54	Hafnium sulphide-carbon nanotube composite as Pt support and active site-enriched catalyst for high performance methanol and ethanol oxidations in alkaline electrolytes. <i>Journal of Power Sources</i> , 2019, 410-411, 204-212.	7.8	19

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55	Ultrasensitive antibiotic sensing using aptamer/graphene-based field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2019, 126, 664-671.	10.1	83
56	Highly efficient degradation of dimethyl phthalate from Cu(II) and dimethyl phthalate wastewater by EDTA enhanced ozonation: Performance, intermediates and mechanism. <i>Journal of Hazardous Materials</i> , 2019, 366, 378-385.	12.4	33
57	Activation of persulfate with metal-organic framework-derived nitrogen-doped porous Co@C nanoboxes for highly efficient p-Chloroaniline removal. <i>Chemical Engineering Journal</i> , 2019, 358, 408-418.	12.7	177
58	Rapid detection of nutrients with electronic sensors: a review. <i>Environmental Science: Nano</i> , 2018, 5, 837-862.	4.3	41
59	Superior electrocatalysis for hydrogen evolution with crumpled graphene/tungsten disulfide/tungsten trioxide ternary nanohybrids. <i>Nano Energy</i> , 2018, 47, 66-73.	16.0	71
60	Strategies for Improving the Performance of Sensors Based on Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2018, 30, e1705642.	21.0	114
61	Decoration of vertical graphene with tin dioxide nanoparticles for highly sensitive room temperature formaldehyde sensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 1011-1020.	7.8	97
62	In-situ synthesized TiC@CNT as high-performance catalysts for oxygen reduction reaction. <i>Carbon</i> , 2018, 126, 566-573.	10.3	23
63	Real-time electronic sensor based on black phosphorus/Au NPs/DTT hybrid structure: Application in arsenic detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 214-219.	7.8	41
64	In Operando Impedance Spectroscopic Analysis on NiO-WO <sub>3</sub> Nanorod Heterojunction Random Networks for Room-Temperature H <sub>2</sub> S Detection. <i>ACS Omega</i> , 2018, 3, 18685-18693.	3.5	18
65	Enhanced Photocatalytic Removal of Tetrabromobisphenol A by Magnetic CoO@graphene Nanocomposites under Visible-Light Irradiation. <i>ACS Applied Energy Materials</i> , 2018, 1, 2698-2708.	5.1	42
66	Real-time and selective detection of nitrates in water using graphene-based field-effect transistor sensors. <i>Environmental Science: Nano</i> , 2018, 5, 1990-1999.	4.3	41
67	Graphene Field-Effect Transistor Sensors. , 2018, , 113-132.		9
68	3D Edge-Enriched Fe <sub>3</sub> C@C Nanocrystals with a Core-Shell Structure Grown on Reduced Graphene Oxide Networks for Efficient Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2018, 11, 3292-3298.	6.8	25
69	Metal-Organic Framework-Based Sensors for Environmental Contaminant Sensing. <i>Nano-Micro Letters</i> , 2018, 10, 64.	27.0	389
70	Organometallic Precursor-Derived SnO <sub>2</sub> /Sn-Reduced Graphene Oxide Sandwiched Nanocomposite Anode with Superior Lithium Storage Capacity. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 26170-26177.	8.0	32
71	Field-effect transistor biosensors with two-dimensional black phosphorus nanosheets. <i>Biosensors and Bioelectronics</i> , 2017, 89, 505-510.	10.1	206
72	Reduced graphene oxide intercalated Co <sub>2</sub> C or Co <sub>4</sub> N nanoparticles as an efficient and durable fuel cell catalyst for oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2972-2980.	10.3	85

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73	Ultrasensitive detection of orthophosphate ions with reduced graphene oxide/ferritin field-effect transistor sensors. <i>Environmental Science: Nano</i> , 2017, 4, 856-863.	4.3	28
74	Graphene-based electronic biosensors. <i>Journal of Materials Research</i> , 2017, 32, 2954-2965.	2.6	24
75	Field-Effect Transistor Biosensor for Rapid Detection of Ebola Antigen. <i>Scientific Reports</i> , 2017, 7, 10974.	3.3	112
76	Two-dimensional nanomaterial-based field-effect transistors for chemical and biological sensing. <i>Chemical Society Reviews</i> , 2017, 46, 6872-6904.	38.1	316
77	Pulse-Driven Capacitive Lead Ion Detection with Reduced Graphene Oxide Field-Effect Transistor Integrated with an Analyzing Device for Rapid Water Quality Monitoring. <i>ACS Sensors</i> , 2017, 2, 1653-1661.	7.8	57
78	Decorating in situ ultrasmall tin particles on crumpled N-doped graphene for lithium-ion batteries with a long life cycle. <i>Journal of Power Sources</i> , 2016, 328, 482-491.	7.8	38
79	Nitrogen-boron Dipolar-doped Nanocarbon as a High-efficiency Electrocatalyst for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2016, 222, 481-487.	5.2	37
80	Ultrasensitive Mercury Ion Detection Using DNA-Functionalized Molybdenum Disulfide Nanosheet/Gold Nanoparticle Hybrid Field-Effect Transistor Device. <i>ACS Sensors</i> , 2016, 1, 295-302.	7.8	103
81	Nanomaterial-enabled Rapid Detection of Water Contaminants. <i>Small</i> , 2015, 11, 5336-5359.	10.0	108
82	Improving cyclic performance of Si anode for lithium-ion batteries by forming an intermetallic skin. <i>RSC Advances</i> , 2015, 5, 38660-38664.	3.6	22
83	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.	16.0	55
84	Metallic CoS <sub>2</sub> nanowire electrodes for high cycling performance supercapacitors. <i>Nanotechnology</i> , 2015, 26, 494001.	2.6	52
85	Amorphous MoS <sub>x</sub> Cl <sub>y</sub> electrocatalyst supported by vertical graphene for efficient electrochemical and photoelectrochemical hydrogen generation. <i>Energy and Environmental Science</i> , 2015, 8, 862-868.	30.8	183
86	Hydrogen Evolution: Perpendicularly Oriented MoSe <sub>2</sub> /Graphene Nanosheets as Advanced Electrocatalysts for Hydrogen Evolution ( <i>Small</i> 4/2015). <i>Small</i> , 2015, 11, 508-508.	10.0	4
87	Hybrid Electrocatalysis: An Advanced Nitrogen-Doped Graphene/Cobalt-Embedded Porous Carbon Polyhedron Hybrid for Efficient Catalysis of Oxygen Reduction and Water Splitting ( <i>Adv. Funct. Mater.</i> ) Tj ETQq1 1 047843141rgBT /Over		
88	Emerging energy and environmental applications of vertically-oriented graphenes. <i>Chemical Society Reviews</i> , 2015, 44, 2108-2121.	38.1	269
89	Rational design of mesoporous NiFe-alloy-based hybrids for oxygen conversion electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7986-7993.	10.3	95
90	NiO-Microflower Formed by Nanowire-weaving Nanosheets with Interconnected Ni-network Decoration as Supercapacitor Electrode. <i>Scientific Reports</i> , 2015, 5, 11919.	3.3	92

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91	Real-time detection of mercury ions in water using a reduced graphene oxide/DNA field-effect transistor with assistance of a passivation layer. <i>Sensing and Bio-Sensing Research</i> , 2015, 5, 97-104.	4.2	38
92	One-pot synthesis of high-performance Co/graphene electrocatalysts for glucose fuel cells free of enzymes and precious metals. <i>Chemical Communications</i> , 2015, 51, 9354-9357.	4.1	52
93	Ultrahigh sensitivity and layer-dependent sensing performance of phosphorene-based gas sensors. <i>Nature Communications</i> , 2015, 6, 8632.	12.8	598
94	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. <i>NPG Asia Materials</i> , 2015, 7, e224-e224.	7.9	30
95	An Advanced Nitrogen-Doped Graphene/Cobalt-Embedded Porous Carbon Polyhedron Hybrid for Efficient Catalysis of Oxygen Reduction and Water Splitting. <i>Advanced Functional Materials</i> , 2015, 25, 872-882.	14.9	683
96	Three-dimensional graphene-based composites for energy applications. <i>Nanoscale</i> , 2015, 7, 6924-6943.	5.6	241
97	A high-performance catalyst support for methanol oxidation with graphene and vanadium carbonitride. <i>Nanoscale</i> , 2015, 7, 1301-1307.	5.6	75
98	Perpendicularly Oriented MoSe <sub>2</sub> /Graphene Nanosheets as Advanced Electrocatalysts for Hydrogen Evolution. <i>Small</i> , 2015, 11, 414-419.	10.0	276
99	Nickel oxide hollow microsphere for non-enzyme glucose detection. <i>Biosensors and Bioelectronics</i> , 2014, 54, 251-257.	10.1	208
100	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.	19.5	512
101	Nanocarbon-based gas sensors: progress and challenges. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5573.	10.3	202
102	Controllable Synthesis of Hollow Si Anode for Long-Cycle-Life Lithium-Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 4326-4332.	21.0	193
103	Hierarchical Nanohybrids with Porous CNT-Networks Decorated Crumpled Graphene Balls for Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 9881-9889.	8.0	94
104	High-performance bi-functional electrocatalysts of 3D crumpled graphene-cobalt oxide nanohybrids for oxygen reduction and evolution reactions. <i>Energy and Environmental Science</i> , 2014, 7, 609-616.	30.8	605
105	Enzymeless Glucose Detection Based on CoO/Graphene Microsphere Hybrids. <i>Electroanalysis</i> , 2014, 26, 1326-1334.	2.9	48
106	Instantaneous Reduction of Graphene Oxide Paper for Supercapacitor Electrodes with Unimpeded Liquid Permeation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13493-13502.	3.1	19
107	Hydrothermal synthesis of vanadium nitride and modulation of its catalytic performance for oxygen reduction reaction. <i>Nanoscale</i> , 2014, 6, 9608.	5.6	93
108	Synthesizing Nitrogen-Doped Activated Carbon and Probing its Active Sites for Oxygen Reduction Reaction in Microbial Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 7464-7470.	8.0	157

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109	Green preparation of reduced graphene oxide for sensing and energy storage applications. Scientific Reports, 2014, 4, 4684.	3.3	433
110	Graphene Coupled with Nanocrystals: Opportunities and Challenges for Energy and Sensing Applications. Journal of Physical Chemistry Letters, 2013, 4, 2441-2454.	4.6	80
111	Effects of N and F doping on structure and photocatalytic properties of anatase TiO <sub>2</sub> nanoparticles. RSC Advances, 2013, 3, 16657.	3.6	43
112	TiO <sub>2</sub> nanoparticles-decorated carbon nanotubes for significantly improved bioelectricity generation in microbial fuel cells. Journal of Power Sources, 2013, 234, 100-106.	7.8	136
113	CNT@TiO <sub>2</sub> nanohybrids for high-performance anode of lithium-ion batteries. Nanoscale Research Letters, 2013, 8, 499.	5.7	25
114	Nitrogen-doped graphene-vanadium carbide hybrids as a high-performance oxygen reduction reaction electrocatalyst support in alkaline media. Journal of Materials Chemistry A, 2013, 1, 13404.	10.3	50
115	Hierarchical vertically oriented graphene as a catalytic counter electrode in dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 188-193.	10.3	85
116	Influence of partial substitution of Mo for Cr on structure and hydrogen storage characteristics of non-stoichiometric Laves phase TiCrB <sub>0.9</sub> alloy. International Journal of Hydrogen Energy, 2013, 38, 11955-11963.	7.1	10
117	Single-walled carbon nanotube field-effect transistors with graphene oxide passivation for fast, sensitive, and selective proteindetection. Biosensors and Bioelectronics, 2013, 42, 186-192.	10.1	40
118	Silicon nanotube anode for lithium-ion batteries. Electrochemistry Communications, 2013, 29, 67-70.	4.7	236
119	Indium-doped SnO <sub>2</sub> nanoparticle-graphene nanohybrids: simple one-pot synthesis and their selective detection of NO <sub>2</sub> . Journal of Materials Chemistry A, 2013, 1, 4462.	10.3	129
120	Controllable synthesis of silver nanoparticle-decorated reduced graphene oxide hybrids for ammonia detection. Analyst, The, 2013, 138, 2877.	3.5	125
121	Ultrasonic-assisted self-assembly of monolayer graphene oxide for rapid detection of Escherichia coli bacteria. Nanoscale, 2013, 5, 3620.	5.6	82
122	Direct Growth of Vertically-oriented Graphene for Field-Effect Transistor Biosensor. Scientific Reports, 2013, 3, 1696.	3.3	173
123	Crumpled Nitrogen-Doped Graphene Nanosheets with Ultrahigh Pore Volume for High-Performance Supercapacitor. Advanced Materials, 2012, 24, 5610-5616.	21.0	880
124	Ultrafast hydrogen sensing through hybrids of semiconducting single-walled carbon nanotubes and tin oxide nanocrystals. Nanoscale, 2012, 4, 1275.	5.6	51
125	Tuning gas-sensing properties of reduced graphene oxide using tin oxide nanocrystals. Journal of Materials Chemistry, 2012, 22, 11009.	6.7	274
126	Ag nanocrystal as a promoter for carbon nanotube-based room-temperature gas sensors. Nanoscale, 2012, 4, 5887.	5.6	71



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127	Hg(II) Ion Detection Using Thermally Reduced Graphene Oxide Decorated with Functionalized Gold Nanoparticles. <i>Analytical Chemistry</i> , 2012, 84, 4057-4062.	6.5	224
128	Modulating Gas Sensing Properties of CuO Nanowires through Creation of Discrete Nanosized p-n Junctions on Their Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 4192-4199.	8.0	125
129	A General Approach to One-Pot Fabrication of Crumpled Graphene-Based Nanohybrids for Energy Applications. <i>ACS Nano</i> , 2012, 6, 7505-7513.	14.6	201
130	Binding Sn-based nanoparticles on graphene as the anode of rechargeable lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 3300.	6.7	97
131	Controllable photoelectron transfer in CdSe nanocrystal-carbon nanotube hybrid structures. <i>Nanoscale</i> , 2012, 4, 742-746.	5.6	15
132	Graphene oxide and its reduction: modeling and experimental progress. <i>RSC Advances</i> , 2012, 2, 2643.	3.6	463
133	Nitrogen-Enriched Core-Shell Structured Fe/Fe <sub>3</sub> C Nanorods as Advanced Electrocatalysts for Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2012, 24, 1399-1404.	21.0	517
134	Nitrogen-Enriched Core-Shell Structured Fe/Fe <sub>3</sub> C-C Nanorods as Advanced Electrocatalysts for Oxygen Reduction Reaction (Adv. Mater. 11/2012). <i>Advanced Materials</i> , 2012, 24, 1398-1398.	21.0	8
135	Vertically oriented graphene sheets grown on metallic wires for greener corona discharges: lower power consumption and minimized ozone emission. <i>Energy and Environmental Science</i> , 2011, 4, 2525.	30.8	66
136	Selective Deposition of CdSe Nanoparticles on Reduced Graphene Oxide to Understand Photoinduced Charge Transfer in Hybrid Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 2703-2709.	8.0	25
137	Carbon Nanotube with Chemically Bonded Graphene Leaves for Electronic and Optoelectronic Applications. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1556-1562.	4.6	190
138	A new reducing agent to prepare single-layer, high-quality reduced graphene oxide for device applications. <i>Nanoscale</i> , 2011, 3, 2849.	5.6	99
139	Highly sensitive protein sensor based on thermally-reduced graphene oxide field-effect transistor. <i>Nano Research</i> , 2011, 4, 921-930.	10.4	84
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