

Shun Mao

List of Publications by Year in descending order

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164
papers

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13068

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21153
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#	ARTICLE	IF	CITATIONS
1	Crumpled Nitrogen-Doped Graphene Nanosheets with Ultrahigh Pore Volume for High-Performance Supercapacitor. <i>Advanced Materials</i> , 2012, 24, 5610-5616.	11.1	880
2	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.	7.8	683
3	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.	15.6	605
4	Ultrahigh sensitivity and layer-dependent sensing performance of phosphorene-based gas sensors. <i>Nature Communications</i> , 2015, 6, 8632.	5.8	598
5	Nitrogen-Enriched Core-Shell Structured Fe/Fe ₃ C Nanorods as Advanced Electrocatalysts for Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2012, 24, 1399-1404.	11.1	517
6	Metal-Organic Framework-Derived Nitrogen-Doped Core-Shell Structured Porous Fe/Fe ₃ C@C Nanoboxes Supported on Graphene Sheets for Efficient Oxygen Reduction Reactions. <i>Advanced Energy Materials</i> , 2014, 4, 1400337.	10.2	512
7	Graphene oxide and its reduction: modeling and experimental progress. <i>RSC Advances</i> , 2012, 2, 2643.	1.7	463
8	Specific Protein Detection Using Thermally Reduced Graphene Oxide Sheet Decorated with Gold Nanoparticle-Antibody Conjugates. <i>Advanced Materials</i> , 2010, 22, 3521-3526.	11.1	444
9	Green preparation of reduced graphene oxide for sensing and energy storage applications. <i>Scientific Reports</i> , 2014, 4, 4684.	1.6	433
10	Metal-Organic Framework-Based Sensors for Environmental Contaminant Sensing. <i>Nano-Micro Letters</i> , 2018, 10, 64.	14.4	389
11	Two-dimensional nanomaterial-based field-effect transistors for chemical and biological sensing. <i>Chemical Society Reviews</i> , 2017, 46, 6872-6904.	18.7	316
12	Perpendicularly Oriented MoSe ₂ /Graphene Nanosheets as Advanced Electrocatalysts for Hydrogen Evolution. <i>Small</i> , 2015, 11, 414-419.	5.2	276
13	Tuning gas-sensing properties of reduced graphene oxide using tin oxide nanocrystals. <i>Journal of Materials Chemistry</i> , 2012, 22, 11009.	6.7	274
14	Emerging energy and environmental applications of vertically-oriented graphenes. <i>Chemical Society Reviews</i> , 2015, 44, 2108-2121.	18.7	269
15	Three-dimensional graphene-based composites for energy applications. <i>Nanoscale</i> , 2015, 7, 6924-6943.	2.8	241
16	Silicon nanotube anode for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2013, 29, 67-70.	2.3	236
17	Hg(II) Ion Detection Using Thermally Reduced Graphene Oxide Decorated with Functionalized Gold Nanoparticles. <i>Analytical Chemistry</i> , 2012, 84, 4057-4062.	3.2	224
18	Nickel oxide hollow microsphere for non-enzyme glucose detection. <i>Biosensors and Bioelectronics</i> , 2014, 54, 251-257.	5.3	208

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19	Field-effect transistor biosensors with two-dimensional black phosphorus nanosheets. <i>Biosensors and Bioelectronics</i> , 2017, 89, 505-510.	5.3	206
20	Nanocarbon-based gas sensors: progress and challenges. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5573.	5.2	202
21	A General Approach to One-Pot Fabrication of Crumpled Graphene-Based Nanohybrids for Energy Applications. <i>ACS Nano</i> , 2012, 6, 7505-7513.	7.3	201
22	Controllable Synthesis of Hollow Si Anode for Long-Cycle-Life Lithium-Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 4326-4332.	11.1	193
23	Carbon Nanotube with Chemically Bonded Graphene Leaves for Electronic and Optoelectronic Applications. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1556-1562.	2.1	190
24	Amorphous MoS ₂ /Cl ₂ electrocatalyst supported by vertical graphene for efficient electrochemical and photoelectrochemical hydrogen generation. <i>Energy and Environmental Science</i> , 2015, 8, 862-868.	15.6	183
25	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.	6.6	177
26	Direct Growth of Vertically-oriented Graphene for Field-Effect Transistor Biosensor. <i>Scientific Reports</i> , 2013, 3, 1696.	1.6	173
27	Metal Nitride/Graphene Nanohybrids: General Synthesis and Multifunctional Titanium Nitride/Graphene Electrocatalyst. <i>Advanced Materials</i> , 2011, 23, 5445-5450.	11.1	171
28	Synthesizing Nitrogen-Doped Activated Carbon and Probing its Active Sites for Oxygen Reduction Reaction in Microbial Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7464-7470.	4.0	157
29	Facile, noncovalent decoration of graphene oxide sheets with nanocrystals. <i>Nano Research</i> , 2009, 2, 192-200.	5.8	145
30	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.	2.4	139
31	TiO ₂ nanoparticles-decorated carbon nanotubes for significantly improved bioelectricity generation in microbial fuel cells. <i>Journal of Power Sources</i> , 2013, 234, 100-106.	4.0	136
32	Indium-doped SnO ₂ nanoparticle-graphene nanohybrids: simple one-pot synthesis and their selective detection of NO ₂ . <i>Journal of Materials Chemistry A</i> , 2013, 1, 4462.	5.2	129
33	Modulating Gas Sensing Properties of CuO Nanowires through Creation of Discrete Nanosized p-n Junctions on Their Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4192-4199.	4.0	125
34	Controllable synthesis of silver nanoparticle-decorated reduced graphene oxide hybrids for ammonia detection. <i>Analyst</i> , 2013, 138, 2877.	1.7	125
35	MOF-derived metal-free N-doped porous carbon mediated peroxydisulfate activation via radical and non-radical pathways: Role of graphitic N and C O. <i>Chemical Engineering Journal</i> , 2020, 380, 122584.	6.6	124
36	Growth of carbon nanowalls at atmospheric pressure for one-step gas sensor fabrication. <i>Nanoscale Research Letters</i> , 2011, 6, 202.	3.1	123

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37	Understanding growth of carbon nanowalls at atmospheric pressure using normal glow discharge plasma-enhanced chemical vapor deposition. <i>Carbon</i> , 2011, 49, 1849-1858.	5.4	120
38	Strategies for Improving the Performance of Sensors Based on Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2018, 30, e1705642.	11.1	114
39	Field-Effect Transistor Biosensor for Rapid Detection of Ebola Antigen. <i>Scientific Reports</i> , 2017, 7, 10974.	1.6	112
40	Tuning layered Fe-doped g-C ₃ N ₄ structure through pyrolysis for enhanced Fenton and photo-Fenton activities. <i>Carbon</i> , 2020, 159, 461-470.	5.4	111
41	Nanomaterial-enabled Rapid Detection of Water Contaminants. <i>Small</i> , 2015, 11, 5336-5359.	5.2	108
42	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.	4.0	103
43	Peroxydisulfate activation by atomically-dispersed Fe-Nx on N-doped carbon: Mechanism of singlet oxygen evolution for nonradical degradation of aqueous contaminants. <i>Chemical Engineering Journal</i> , 2021, 413, 127545.	6.6	102
44	A new reducing agent to prepare single-layer, high-quality reduced graphene oxide for device applications. <i>Nanoscale</i> , 2011, 3, 2849.	2.8	99
45	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
46	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.	4.0	97
47	Rational design of mesoporous NiFe-alloy-based hybrids for oxygen conversion electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7986-7993.	5.2	95
48	Hierarchical Nanohybrids with Porous CNT-Networks Decorated Crumpled Graphene Balls for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9881-9889.	4.0	94
49	Hydrothermal synthesis of vanadium nitride and modulation of its catalytic performance for oxygen reduction reaction. <i>Nanoscale</i> , 2014, 6, 9608.	2.8	93
50	NiO-Microflower Formed by Nanowire-weaving Nanosheets with Interconnected Ni-network Decoration as Supercapacitor Electrode. <i>Scientific Reports</i> , 2015, 5, 11919.	1.6	92
51	The role of Fe-Nx single-atom catalytic sites in peroxydisulfate activation: Formation of surface-activated complex and non-radical pathways. <i>Chemical Engineering Journal</i> , 2021, 423, 130250.	6.6	88
52	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.	3.8	87
53	Highly efficient photocatalytic H ₂ O ₂ production with cyano and SnO ₂ co-modified g-C ₃ N ₄ . <i>Chemical Engineering Journal</i> , 2022, 428, 132531.	6.6	86
54	Hierarchical vertically oriented graphene as a catalytic counter electrode in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 188-193.	5.2	85

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55	Reduced graphene oxide intercalated Co ₂ C or Co ₄ N nanoparticles as an efficient and durable fuel cell catalyst for oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2972-2980.	5.2	85
56	Highly sensitive protein sensor based on thermally-reduced graphene oxide field-effect transistor. <i>Nano Research</i> , 2011, 4, 921-930.	5.8	84
57	Ultrace antibiotic sensing using aptamer/graphene-based field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2019, 126, 664-671.	5.3	83
58	Selective Removal of Phenolic Compounds by Peroxydisulfate Activation: Inherent Role of Hydrophobicity and Interface ROS. <i>Environmental Science & Technology</i> , 2022, 56, 2665-2676.	4.6	83
59	Ultrasonic-assisted self-assembly of monolayer graphene oxide for rapid detection of Escherichia coli bacteria. <i>Nanoscale</i> , 2013, 5, 3620.	2.8	82
60	Graphene Coupled with Nanocrystals: Opportunities and Challenges for Energy and Sensing Applications. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2441-2454.	2.1	80
61	Metal-organic framework-derived core-shell-structured nitrogen-doped Co _x /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.	3.1	78
62	A high-performance catalyst support for methanol oxidation with graphene and vanadium carbonitride. <i>Nanoscale</i> , 2015, 7, 1301-1307.	2.8	75
63	Prussian blue analog-derived 2D ultrathin CoFe ₂ 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.	5.2	75
64	Recent advances in sensitive and rapid mercury determination with graphene-based sensors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6616-6630.	5.2	73
65	Environmental Analysis with 2D Transition-Metal Dichalcogenide-Based Field-Effect Transistors. <i>Nano-Micro Letters</i> , 2020, 12, 95.	14.4	73
66	Ag nanocrystal as a promoter for carbon nanotube-based room-temperature gas sensors. <i>Nanoscale</i> , 2012, 4, 5887.	2.8	71
67	Superior electrocatalysis for hydrogen evolution with crumpled graphene/tungsten disulfide/tungsten trioxide ternary nanohybrids. <i>Nano Energy</i> , 2018, 47, 66-73.	8.2	71
68	Electrochemically Sensing of Trichloroacetic Acid with Iron(II) Phthalocyanine and Zn-Based Metal Organic Framework Nanocomposites. <i>ACS Sensors</i> , 2019, 4, 1934-1941.	4.0	71
69	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.	2.9	71
70	Using a strong chemical oxidant, potassium ferrate (K ₂ FeO ₄), in waste activated sludge treatment: A review. <i>Environmental Research</i> , 2020, 188, 109764.	3.7	71
71	The effect of Ag nanoparticle loading on the photocatalytic activity of TiO ₂ nanorod arrays. <i>Chemical Physics Letters</i> , 2010, 485, 171-175.	1.2	68
72	Ultrasensitive antibiotic sensing with complementary strand DNA assisted aptamer/MoS ₂ field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111711.	5.3	68

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73	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.	15.6	66
74	Highly Enhanced Gas Sensing Performance Using a 1T/2H Heterophase MoS ₂ Field-Effect Transistor at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50610-50618.	4.0	64
75	Thio-groups decorated covalent triazine frameworks for selective mercury removal. <i>Journal of Hazardous Materials</i> , 2021, 403, 123702.	6.5	60
76	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.	4.0	57
77	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
78	Raman scattering studies of the GeS ₂ -Ga ₂ S ₃ -CsCl glassy system. <i>Solid State Communications</i> , 2005, 133, 327-332.	0.9	53
79	Metallic Co ₂ nanowire electrodes for high cycling performance supercapacitors. <i>Nanotechnology</i> , 2015, 26, 494001.	1.3	52
80	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.	2.2	52
81	Ultrafast hydrogen sensing through hybrids of semiconducting single-walled carbon nanotubes and tin oxide nanocrystals. <i>Nanoscale</i> , 2012, 4, 1275.	2.8	51
82	Single-Atom Pt-Functionalized Ti ₃ C ₂ T _x Field-Effect Transistor for Volatile Organic Compound Gas Detection. <i>ACS Sensors</i> , 2022, 7, 1874-1882.	4.0	51
83	Nitrogen-doped graphene-vanadium carbide hybrids as a high-performance oxygen reduction reaction electrocatalyst support in alkaline media. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13404.	5.2	50
84	Raman scattering studies of the Ge-In sulfide glasses. <i>Solid State Communications</i> , 2006, 137, 408-412.	0.9	49
85	Enzymeless Glucose Detection Based on CoO/Graphene Microsphere Hybrids. <i>Electroanalysis</i> , 2014, 26, 1326-1334.	1.5	48
86	Highly sensitive and selective fluorescent detection of phosphate in water environment by a functionalized coordination polymer. <i>Water Research</i> , 2019, 163, 114883.	5.3	48
87	H ₂ S sensing under various humidity conditions with Ag nanoparticle functionalized Ti ₃ C ₂ T _x MXene field-effect transistors. <i>Journal of Hazardous Materials</i> , 2022, 424, 127492.	6.5	48
88	Heterogeneous Electro-Fenton catalysis with HKUST-1-derived Cu@C decorated in 3D graphene network. <i>Chemosphere</i> , 2020, 243, 125423.	4.2	47
89	One-pot synthesis of ultrafine NiO loaded and Ti ³⁺ in-situ doped TiO ₂ induced by cyclodextrin for efficient visible-light photodegradation of hydrophobic pollutants. <i>Chemical Engineering Journal</i> , 2020, 402, 126211.	6.6	44
90	Effects of N and F doping on structure and photocatalytic properties of anatase TiO ₂ nanoparticles. <i>RSC Advances</i> , 2013, 3, 16657.	1.7	43

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91	Demand, status, and prospect of antibiotics detection in the environment. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132383.	4.0	43
92	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.	2.5	42
93	Rapid detection of nutrients with electronic sensors: a review. <i>Environmental Science: Nano</i> , 2018, 5, 837-862.	2.2	41
94	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.	4.0	41
95	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.	2.2	41
96	Photocatalytic H ₂ O ₂ 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.	10.8	41
97	Single-walled carbon nanotube field-effect transistors with graphene oxide passivation for fast, sensitive, and selective protein detection. <i>Biosensors and Bioelectronics</i> , 2013, 42, 186-192.	5.3	40
98	Specific biosensing using carbon nanotubes functionalized with gold nanoparticle-antibody conjugates. <i>Carbon</i> , 2010, 48, 479-486.	5.4	39
99	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.	4.2	39
100	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.	2.2	38
101	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.	4.0	38
102	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.	6.5	38
103	Nitrogen-boron Dipolar-doped Nanocarbon as a High-efficiency Electrocatalyst for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2016, 222, 481-487.	2.6	37
104	Label-Free, Fast Response, and Simply Operated Silver Ion Detection with a Ti ₃ C ₂ T _x MXene Field-Effect Transistor. <i>Analytical Chemistry</i> , 2021, 93, 8010-8018.	3.2	35
105	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.	6.5	33
106	Nanoscale Discharge Electrode for Minimizing Ozone Emission from Indoor Corona Devices. <i>Environmental Science & Technology</i> , 2010, 44, 6337-6342.	4.6	32
107	Organometallic Precursor-Derived SnO ₂ /Sn-Reduced Graphene Oxide Sandwiched Nanocomposite Anode with Superior Lithium Storage Capacity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26170-26177.	4.0	32
108	One-step, continuous synthesis of a spherical Li ₄ Ti ₅ O ₁₂ /graphene composite as an ultra-long cycle life lithium-ion battery anode. <i>NPG Asia Materials</i> , 2015, 7, e224-e224.	3.8	30

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109	Raman spectroscopic analysis of GeS ₂ -Ga ₂ S ₃ -PbI ₂ chalcogenide glasses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 67, 1351-1356.	2.0	28
110	Ultrasensitive detection of orthophosphate ions with reduced graphene oxide/ferritin field-effect transistor sensors. <i>Environmental Science: Nano</i> , 2017, 4, 856-863.	2.2	28
111	High Anti-Interference Ti ₃ C ₂ T _x MXene Field-Effect-Transistor-Based Alkali Indicator. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32970-32978.	4.0	28
112	Ultrasensitive detection of disinfection byproduct trichloroacetamide in drinking water with Ag nanoprisms@MoS ₂ heterostructure-based electrochemical sensor. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129526.	4.0	28
113	Ti ₃ C ₂ T _x MXene sensor for rapid Hg ²⁺ analysis in high salinity environment. <i>Journal of Hazardous Materials</i> , 2021, 418, 126301.	6.5	27
114	RIPENING OF SILVER NANOPARTICLES ON CARBON NANOTUBES. <i>Nano</i> , 2007, 02, 149-156.	0.5	26
115	Rapid and Sensitive Detection of <i>Mycobacterium tuberculosis</i> by an Enhanced Nanobiosensor. <i>ACS Sensors</i> , 2021, 6, 3367-3376.	4.0	26
116	Selective Deposition of CdSe Nanoparticles on Reduced Graphene Oxide to Understand Photoinduced Charge Transfer in Hybrid Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2703-2709.	4.0	25
117	CNT@TiO ₂ nanohybrids for high-performance anode of lithium-ion batteries. <i>Nanoscale Research Letters</i> , 2013, 8, 499.	3.1	25
118	3D Edge-Enriched Fe ₃ 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.	3.6	25
119	Function-Targeted Lanthanide-Anchored Polyoxometalate-Cyclodextrin Assembly: Discriminative Sensing of Inorganic Phosphate and Organophosphate. <i>Advanced Functional Materials</i> , 2021, 31, 2104572.	7.8	25
120	Graphene-based electronic biosensors. <i>Journal of Materials Research</i> , 2017, 32, 2954-2965.	1.2	24
121	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.	6.6	24
122	In-situ synthesized TiC@CNT as high-performance catalysts for oxygen reduction reaction. <i>Carbon</i> , 2018, 126, 566-573.	5.4	23
123	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
124	Novel insights into the unique intrinsic sensing behaviors of 2D nanomaterials for volatile organic compounds: from graphene to MoS ₂ and black phosphorous. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14411-14421.	5.2	22
125	Promotion of Phenol Electro-oxidation by Oxygen Evolution Reaction on an Active Electrode for Efficient Pollution Control and Hydrogen Evolution. <i>Environmental Science & Technology</i> , 2022, 56, 5753-5762.	4.6	22
126	Aeration-assisted sulfite activation with ferrous for enhanced chloramphenicol degradation. <i>Chemosphere</i> , 2020, 238, 124599.	4.2	21

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127	SnO ₂ nanoparticles incorporated CuO nanopetals on graphene for high-performance room-temperature NO ₂ sensor. <i>Chemical Physics Letters</i> , 2020, 750, 137485.	1.2	21
128	Formation and properties of the GeS ₂ -In ₂ S ₃ -KCl new chalcogenide glassy system. <i>Materials Letters</i> , 2006, 60, 741-745.	1.3	20
129	Instantaneous Reduction of Graphene Oxide Paper for Supercapacitor Electrodes with Unimpeded Liquid Permeation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13493-13502.	1.5	19
130	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.	4.0	19
131	Coating carbon nanotubes with colloidal nanocrystals by combining an electrospray technique with directed assembly using an electrostatic field. <i>Nanotechnology</i> , 2008, 19, 455610.	1.3	18
132	In Operando Impedance Spectroscopic Analysis on NiO-WO ₃ Nanorod Heterojunction Random Networks for Room-Temperature H ₂ S Detection. <i>ACS Omega</i> , 2018, 3, 18685-18693.	1.6	18
133	Structure dependence of ultrafast third-order optical nonlinearity for GeS ₂ -In ₂ S ₃ -CsI chalcogenide glasses. <i>Solid State Communications</i> , 2007, 142, 453-456.	0.9	17
134	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
135	Mechanism of electron beam poled SHG in 0.95GeS ₂ -0.05In ₂ S ₃ chalcogenide glasses. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 158-161.	1.9	16
136	MnO ₂ cacti-like nanostructured platform powers the enhanced electrochemical immunobiosensing of cortisol. <i>Sensors and Actuators B: Chemical</i> , 2020, 317, 128134.	4.0	16
137	Bifunctional Electrolyzation for Simultaneous Organic Pollutant Degradation and Hydrogen Generation. <i>ACS ES&T Engineering</i> , 2021, 1, 1360-1368.	3.7	16
138	Bifunctional Catalytic Cooperativity on Nanoedge: Oriented Ce-Fe Bimetallic Fenton Electrocatalysts for Organic Pollutant Control. <i>ACS ES&T Engineering</i> , 2021, 1, 1618-1632.	3.7	16
139	Interconnected Mn-Doped Ni(OH) ₂ 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&T Engineering</i> , 2022, 2, 853-862.	3.7	16
140	Controllable photoelectron transfer in CdSe nanocrystal-carbon nanotube hybrid structures. <i>Nanoscale</i> , 2012, 4, 742-746.	2.8	15
141	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
142	Hexagonal K ₂ W ₄ O ₁₃ Nanowires for the Adsorption of Methylene Blue. <i>ACS Applied Nano Materials</i> , 2019, 2, 3802-3812.	2.4	14
143	Micro-structural study of the GeS ₂ -In ₂ S ₃ -KCl glassy system by Raman scattering. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 64, 1039-1045.	2.0	12
144	Microstructure and thermal properties of the GeS ₂ -In ₂ S ₃ -CsI glassy system. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 1298-1302.	1.5	12

#	ARTICLE	IF	CITATIONS
145	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
146	Exploring the mechanism of the Fe(III)-activated Fenton-like reaction based on a quantitative study. <i>New Journal of Chemistry</i> , 2020, 44, 8952-8959.	1.4	12
147	Persulfate-Induced Three Coordinate Nitrogen (N3C) Vacancies in Defective Carbon Nitride for Enhanced Photocatalytic H ₂ O ₂ Evolution. <i>Engineering</i> , 2023, 25, 214-221.	3.2	12
148	New chalcogenide glasses from the GeS ₂ -In ₂ S ₃ -CsCl system. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 1303-1307.	1.5	11
149	One-dimensional tungsten oxide growth through a grain-by-grain buildup process. <i>Chemical Physics Letters</i> , 2010, 485, 64-68.	1.2	11
150	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>)	2.8	10
151	Nickel-phosphate pompon flowers nanostructured network enables the sensitive detection of microRNA. <i>Talanta</i> , 2020, 209, 120511.	2.9	11
152	Rapid synthesis of multifunctional β -cyclodextrin nanospheres as alkali-responsive nanocarriers and selective antibiotic adsorbents. <i>Chemical Communications</i> , 2021, 57, 1161-1164.	2.2	11
153	Influence of partial substitution of Mo for Cr on structure and hydrogen storage characteristics of non-stoichiometric Laves phase TiCrB _{0.9} alloy. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11955-11963.	3.8	10
154	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.	1.2	10
155	Graphene Field-Effect Transistor Sensors. , 2018, , 113-132.		9
156	Note: Continuous synthesis of uniform vertical graphene on cylindrical surfaces. <i>Review of Scientific Instruments</i> , 2011, 82, 086116.	0.6	8
157	Nitrogen-Enriched Core-Shell Structured Fe/Fe ₃ C-C Nanorods as Advanced Electrocatalysts for Oxygen Reduction Reaction (<i>Adv. Mater.</i> 11/2012). <i>Advanced Materials</i> , 2012, 24, 1398-1398.	11.1	8
158	Highly efficient chloramphenicol degradation by UV and UV/H ₂ O ₂ processes based on LED light source. <i>Water Environment Research</i> , 2020, 92, 2049-2059.	1.3	6
159	Carbon-nanotube-assisted transmission electron microscopy characterization of aerosol nanoparticles. <i>Journal of Aerosol Science</i> , 2009, 40, 180-184.	1.8	5
160	Hydrogen Evolution: Perpendicularly Oriented MoSe ₂ /Graphene Nanosheets as Advanced Electrocatalysts for Hydrogen Evolution (<i>Small</i> 4/2015). <i>Small</i> , 2015, 11, 508-508.	5.2	4
161	Catalytic Performances of NiCuP@rGO and NiCuN@rGO for Oxygen Reduction and Oxygen Evolution Reactions in Alkaline Electrolyte. <i>ChemistrySelect</i> , 2020, 5, 5855-5863.	0.7	4
162	Fabrication and characterization of microwave immunosensors based on organic semiconductors with nanogold-labeled antibody. , 2008, 2008, 2381-4.		2

#	ARTICLE	IF	CITATIONS
163	Microstructural analysis of $\text{Ga}_2\text{S}_3\text{-}2\text{MCl}$ (M = K, Rb, Cs) glasses using Raman scattering. Journal of Non-Crystalline Solids, 2008, 354, 1175-1178.	1.5	1
164	Protein Viability on Au Nanoparticles during an Electrospray and Electrostatic-Force-Directed Assembly Process. Journal of Nanomaterials, 2010, 2010, 1-6.	1.5	1