Shun Mao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8769659/publications.pdf

Version: 2024-02-01

164	16,136	13099	16183
papers	citations	68 h-index	124 g-index

166	166	166	21153
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crumpled Nitrogenâ€Doped Graphene Nanosheets with Ultrahigh Pore Volume for Highâ€Performance Supercapacitor. Advanced Materials, 2012, 24, 5610-5616.	21.0	880
2	An Advanced Nitrogenâ€Doped Graphene/Cobaltâ€Embedded Porous Carbon Polyhedron Hybrid for Efficient Catalysis of Oxygen Reduction and Water Splitting. Advanced Functional Materials, 2015, 25, 872-882.	14.9	683
3	High-performance bi-functional electrocatalysts of 3D crumpled grapheneâ€“cobalt oxide nanohybrids for oxygen reduction and evolution reactions. Energy and Environmental Science, 2014, 7, 609-616.	30.8	605
4	Ultrahigh sensitivity and layer-dependent sensing performance of phosphorene-based gas sensors. Nature Communications, 2015, 6, 8632.	12.8	598
5	Nitrogenâ€Enriched Coreâ€Shell Structured Fe/Fe₃Câ€C Nanorods as Advanced Electrocatalysts for Oxygen Reduction Reaction. Advanced Materials, 2012, 24, 1399-1404.	21.0	517
6	Metalâ^'Organic Frameworkâ€Derived Nitrogenâ€Doped Coreâ€Shellâ€Structured Porous Fe/Fe₃C@C Nanoboxes Supported on Graphene Sheets for Efficient Oxygen Reduction Reactions. Advanced Energy Materials, 2014, 4, 1400337.	19.5	512
7	Graphene oxide and its reduction: modeling and experimental progress. RSC Advances, 2012, 2, 2643.	3.6	463
8	Specific Protein Detection Using Thermally Reduced Graphene Oxide Sheet Decorated with Gold Nanoparticleâ€Antibody Conjugates. Advanced Materials, 2010, 22, 3521-3526.	21.0	444
9	Green preparation of reduced graphene oxide for sensing and energy storage applications. Scientific Reports, 2014, 4, 4684.	3.3	433
10	Metalâ€“Organic Framework-Based Sensors for Environmental Contaminant Sensing. Nano-Micro Letters, 2018, 10, 64.	27.0	389
11	Two-dimensional nanomaterial-based field-effect transistors for chemical and biological sensing. Chemical Society Reviews, 2017, 46, 6872-6904.	38.1	316
12	Perpendicularly Oriented MoSe₂/Graphene Nanosheets as Advanced Electrocatalysts for Hydrogen Evolution. Small, 2015, 11, 414-419.	10.0	276
13	Tuning gas-sensing properties of reduced graphene oxide using tin oxide nanocrystals. Journal of Materials Chemistry, 2012, 22, 11009.	6.7	274
14	Emerging energy and environmental applications of vertically-oriented graphenes. Chemical Society Reviews, 2015, 44, 2108-2121.	38.1	269
15	Three-dimensional graphene-based composites for energy applications. Nanoscale, 2015, 7, 6924-6943.	5.6	241
16	Silicon nanotube anode for lithium-ion batteries. Electrochemistry Communications, 2013, 29, 67-70.	4.7	236
17	Hg(II) Ion Detection Using Thermally Reduced Graphene Oxide Decorated with Functionalized Gold Nanoparticles. Analytical Chemistry, 2012, 84, 4057-4062.	6.5	224
18	Nickel oxide hollow microsphere for non-enzyme glucose detection. Biosensors and Bioelectronics, 2014, 54, 251-257.	10.1	208

#	Article	IF	Citations
19	Field-effect transistor biosensors with two-dimensional black phosphorus nanosheets. Biosensors and Bioelectronics, 2017, 89, 505-510.	10.1	206
20	Nanocarbon-based gas sensors: progress and challenges. Journal of Materials Chemistry A, 2014, 2, 5573.	10.3	202
21	A General Approach to One-Pot Fabrication of Crumpled Graphene-Based Nanohybrids for Energy Applications. ACS Nano, 2012, 6, 7505-7513.	14.6	201
22	Controllable Synthesis of Hollow Si Anode for Longâ€Cycleâ€Life Lithiumâ€Ion Batteries. Advanced Materials, 2014, 26, 4326-4332.	21.0	193
23	Carbon Nanotube with Chemically Bonded Graphene Leaves for Electronic and Optoelectronic Applications. Journal of Physical Chemistry Letters, 2011, 2, 1556-1562.	4.6	190
24	Amorphous MoS_xCl_y electrocatalyst supported by vertical graphene for efficient electrochemical and photoelectrochemical hydrogen generation. Energy and Environmental Science, 2015, 8, 862-868.	30.8	183
25	Activation of persulfate with metalâ€“organic framework-derived nitrogen-doped porous Co@C nanoboxes for highly efficient p-Chloroaniline removal. Chemical Engineering Journal, 2019, 358, 408-418.	12.7	177
26	Direct Growth of Vertically-oriented Graphene for Field-Effect Transistor Biosensor. Scientific Reports, 2013, 3, 1696.	3.3	173
27	Metal Nitride/Graphene Nanohybrids: General Synthesis and Multifunctional Titanium Nitride/Graphene Electrocatalyst. Advanced Materials, 2011, 23, 5445-5450.	21.0	171
28	Synthesizing Nitrogen-Doped Activated Carbon and Probing its Active Sites for Oxygen Reduction Reaction in Microbial Fuel Cells. ACS Applied Materials & Interfaces, 2014, 6, 7464-7470.	8.0	157
29	Facile, noncovalent decoration of graphene oxide sheets with nanocrystals. Nano Research, 2009, 2, 192-200.	10.4	145
30	Nanocomposites of Zr(IV)-Based Metalâ€“Organic Frameworks and Reduced Graphene Oxide for Electrochemically Sensing Ciprofloxacin in Water. ACS Applied Nano Materials, 2019, 2, 2367-2376.	5.0	139
31	TiO2 nanoparticles-decorated carbon nanotubes for significantly improved bioelectricity generation in microbial fuel cells. Journal of Power Sources, 2013, 234, 100-106.	7.8	136
32	Indium-doped SnO2 nanoparticleâ€“graphene nanohybrids: simple one-pot synthesis and their selective detection of NO2. Journal of Materials Chemistry A, 2013, 1, 4462.	10.3	129
33	Modulating Gas Sensing Properties of CuO Nanowires through Creation of Discrete Nanosized pâ€“n Junctions on Their Surfaces. ACS Applied Materials & Interfaces, 2012, 4, 4192-4199.	8.0	125
34	Controllable synthesis of silver nanoparticle-decorated reduced graphene oxide hybrids for ammonia detection. Analyst, The, 2013, 138, 2877.	3.5	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. Chemical Engineering Journal, 2020, 380, 122584.	12.7	124
36	Growth of carbon nanowalls at atmospheric pressure for one-step gas sensor fabrication. Nanoscale Research Letters, 2011, 6, 202.	5.7	123

#	Article	IF	Citations
37	Understanding growth of carbon nanowalls at atmospheric pressure using normal glow discharge plasma-enhanced chemical vapor deposition. Carbon, 2011, 49, 1849-1858.	10.3	120
38	Strategies for Improving the Performance of Sensors Based on Organic Fieldâ€Effect Transistors. Advanced Materials, 2018, 30, e1705642.	21.0	114
39	Field-Effect Transistor Biosensor for Rapid Detection of Ebola Antigen. Scientific Reports, 2017, 7, 10974.	3.3	112
40	Tuning layered Fe-doped g-C3N4 structure through pyrolysis for enhanced Fenton and photo-Fenton activities. Carbon, 2020, 159, 461-470.	10.3	111
41	Nanomaterialâ€enabled Rapid Detection of Water Contaminants. Small, 2015, 11, 5336-5359.	10.0	108
42	Ultrasensitive Mercury Ion Detection Using DNA-Functionalized Molybdenum Disulfide Nanosheet/Gold Nanoparticle Hybrid Field-Effect Transistor Device. ACS Sensors, 2016, 1, 295-302.	7.8	103
43	Peroxydisulfate activation by atomically-dispersed Fe-Nx on N-doped carbon: Mechanism of singlet oxygen evolution for nonradical degradation of aqueous contaminants. Chemical Engineering Journal, 2021, 413, 127545.	12.7	102
44	A new reducing agent to prepare single-layer, high-quality reduced graphene oxide for device applications. Nanoscale, 2011, 3, 2849.	5.6	99
45	Binding Sn-based nanoparticles on graphene as the anode of rechargeable lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 3300.	6.7	97
46	Decoration of vertical graphene with tin dioxide nanoparticles for highly sensitive room temperature formaldehyde sensing. Sensors and Actuators B: Chemical, 2018, 256, 1011-1020.	7.8	97
47	Rational design of mesoporous NiFe-alloy-based hybrids for oxygen conversion electrocatalysis. Journal of Materials Chemistry A, 2015, 3, 7986-7993.	10.3	95
48	Hierarchical Nanohybrids with Porous CNT-Networks Decorated Crumpled Graphene Balls for Supercapacitors. ACS Applied Materials & Interfaces, 2014, 6, 9881-9889.	8.0	94
49	Hydrothermal synthesis of vanadium nitride and modulation of its catalytic performance for oxygen reduction reaction. Nanoscale, 2014, 6, 9608.	5.6	93
50	NiO-Microflower Formed by Nanowire-weaving Nanosheets with Interconnected Ni-network Decoration as Supercapacitor Electrode. Scientific Reports, 2015, 5, 11919.	3.3	92
51	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
52	A review on carbon and non-precious metal based cathode catalysts in microbial fuel cells. International Journal of Hydrogen Energy, 2021, 46, 3056-3089.	7.1	87
53	Highly efficient photocatalytic H2O2 production with cyano and SnO2 co-modified g-C3N4. Chemical Engineering Journal, 2022, 428, 132531.	12.7	86
54	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

#	Article	IF	Citations
55	Reduced graphene oxide intercalated Co₂C or Co₄N nanoparticles as an efficient and durable fuel cell catalyst for oxygen reduction. Journal of Materials Chemistry A, 2017, 5, 2972-2980.	10.3	85
56	Highly sensitive protein sensor based on thermally-reduced graphene oxide field-effect transistor. Nano Research, 2011, 4, 921-930.	10.4	84
57	Ultratrace antibiotic sensing using aptamer/graphene-based field-effect transistors. Biosensors and Bioelectronics, 2019, 126, 664-671.	10.1	83
58	Selective Removal of Phenolic Compounds by Peroxydisulfate Activation: Inherent Role of Hydrophobicity and Interface ROS. Environmental Science & Technology, 2022, 56, 2665-2676.	10.0	83
59	Ultrasonic-assisted self-assembly of monolayer graphene oxide for rapid detection of Escherichia coli bacteria. Nanoscale, 2013, 5, 3620.	5.6	82
60	Graphene Coupled with Nanocrystals: Opportunities and Challenges for Energy and Sensing Applications. Journal of Physical Chemistry Letters, 2013, 4, 2441-2454.	4.6	80
61	Metal-organic framework-derived core-shell-structured nitrogen-doped CoCx/FeCo@C hybrid supported by reduced graphene oxide sheets as high performance bifunctional electrocatalysts for ORR and OER. Journal of Catalysis, 2019, 371, 185-195.	6.2	78
62	A high-performance catalyst support for methanol oxidation with graphene and vanadium carbonitride. Nanoscale, 2015, 7, 1301-1307.	5.6	75
63	Prussian blue analog-derived 2D ultrathin CoFe₂O₄ nanosheets as high-activity electrocatalysts for the oxygen evolution reaction in alkaline and neutral media. Journal of Materials Chemistry A, 2019, 7, 7328-7332.	10.3	75
64	Recent advances in sensitive and rapid mercury determination with graphene-based sensors. Journal of Materials Chemistry A, 2019, 7, 6616-6630.	10.3	73
65	Environmental Analysis with 2D Transition-Metal Dichalcogenide-Based Field-Effect Transistors. Nano-Micro Letters, 2020, 12, 95.	27.0	73
66	Ag nanocrystal as a promoter for carbon nanotube-based room-temperature gas sensors. Nanoscale, 2012, 4, 5887.	5.6	71
67	Superior electrocatalysis for hydrogen evolution with crumpled graphene/tungsten disulfide/tungsten trioxide ternary nanohybrids. Nano Energy, 2018, 47, 66-73.	16.0	71
68	Electrochemically Sensing of Trichloroacetic Acid with Iron(II) Phthalocyanine and Zn-Based Metal Organic Framework Nanocomposites. ACS Sensors, 2019, 4, 1934-1941.	7.8	71
69	Highly luminescent sensing for nitrofurans and tetracyclines in water based on zeolitic imidazolate framework-8 incorporated with dyes. Talanta, 2019, 204, 344-352.	5.5	71
70	Using a strong chemical oxidant, potassium ferrate (K2FeO4), in waste activated sludge treatment: A review. Environmental Research, 2020, 188, 109764.	7.5	71
71	The effect of Ag nanoparticle loading on the photocatalytic activity of TiO2 nanorod arrays. Chemical Physics Letters, 2010, 485, 171-175.	2.6	68
72	Ultraselective antibiotic sensing with complementary strand DNA assisted aptamer/MoS2 field-effect transistors. Biosensors and Bioelectronics, 2019, 145, 111711.	10.1	68

#	Article	IF	Citations
73	Vertically oriented graphene sheets grown on metallic wires for greener corona discharges: lower power consumption and minimized ozone emission. Energy and Environmental Science, 2011, 4, 2525.	30.8	66
74	Highly Enhanced Gas Sensing Performance Using a 1T/2H Heterophase MoS₂ Field-Effect Transistor at Room Temperature. ACS Applied Materials & Interfaces, 2020, 12, 50610-50618.	8.0	64
75	Thio-groups decorated covalent triazine frameworks for selective mercury removal. Journal of Hazardous Materials, 2021, 403, 123702.	12.4	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. ACS Sensors, 2017, 2, 1653-1661.	7.8	57
77	Three-dimensional carbon-coated Si/rGO nanostructures anchored by nickel foam with carbon nanotubes for Li-ion battery applications. Nano Energy, 2015, 15, 679-687.	16.0	55
78	Raman scattering studies of the GeS2â€“Ga2S3â€“CsCl glassy system. Solid State Communications, 2005, 133, 327-332.	1.9	53
79	Metallic CoS₂ nanowire electrodes for high cycling performance supercapacitors. Nanotechnology, 2015, 26, 494001.	2.6	52
80	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.	4.1	52
81	Ultrafast hydrogen sensing through hybrids of semiconducting single-walled carbon nanotubes and tin oxide nanocrystals. Nanoscale, 2012, 4, 1275.	5.6	51
82	Single-Atom Pt-Functionalized Ti₃C₂T_x Field-Effect Transistor for Volatile Organic Compound Gas Detection. ACS Sensors, 2022, 7, 1874-1882.	7.8	51
83	Nitrogen-doped grapheneâ€“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
84	Raman scattering studies of the Geâ€“In sulfide glasses. Solid State Communications, 2006, 137, 408-412.	1.9	49
85	Enzymeless Glucose Detection Based on CoO/Graphene Microsphere Hybrids. Electroanalysis, 2014, 26, 1326-1334.	2.9	48
86	Highly sensitive and selective fluorescent detection of phosphate in water environment by a functionalized coordination polymer. Water Research, 2019, 163, 114883.	11.3	48
87	H2S sensing under various humidity conditions with Ag nanoparticle functionalized Ti3C2Tx MXene field-effect transistors. Journal of Hazardous Materials, 2022, 424, 127492.	12.4	48
88	Heterogeneous Electro-Fenton catalysis with HKUST-1-derived Cu@C decorated in 3D graphene network. Chemosphere, 2020, 243, 125423.	8.2	47
89	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
90	Effects of N and F doping on structure and photocatalytic properties of anatase TiO2 nanoparticles. RSC Advances, 2013, 3, 16657.	3.6	43

#	Article	IF	Citations
91	Demand, status, and prospect of antibiotics detection in the environment. Sensors and Actuators B: Chemical, 2022, 369, 132383.	7.8	43
92	Enhanced Photocatalytic Removal of Tetrabromobisphenol A by Magnetic CoO@graphene Nanocomposites under Visible-Light Irradiation. ACS Applied Energy Materials, 2018, 1, 2698-2708.	5.1	42
93	Rapid detection of nutrients with electronic sensors: a review. Environmental Science: Nano, 2018, 5, 837-862.	4.3	41
94	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.	7.8	41
95	Real-time and selective detection of nitrates in water using graphene-based field-effect transistor sensors. Environmental Science: Nano, 2018, 5, 1990-1999.	4.3	41
96	Photocatalytic H2O2 production driven by cyclodextrin-pyrimidine polymer in a wide pH range without electron donor or oxygen aeration. Applied Catalysis B: Environmental, 2022, 314, 121485.	20.2	41
97	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
98	Specific biosensing using carbon nanotubes functionalized with gold nanoparticleâ€“antibody conjugates. Carbon, 2010, 48, 479-486.	10.3	39
99	Persulfate and zero valent iron combined conditioning as a sustainable technique for enhancing dewaterability of aerobically digested sludge. Chemosphere, 2019, 232, 45-53.	8.2	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. Sensing and Bio-Sensing Research, 2015, 5, 97-104.	4.2	38
101	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.	7.8	38
102	Enhanced peroxydisulfate oxidation via Cu(III) species with a Cu-MOF-derived Cu nanoparticle and 3D graphene network. Journal of Hazardous Materials, 2021, 403, 123691.	12.4	38
103	Nitrogen-boron Dipolar-doped Nanocarbon as a High-efficiency Electrocatalyst for Oxygen Reduction Reaction. Electrochimica Acta, 2016, 222, 481-487.	5.2	37
104	Label-Free, Fast Response, and Simply Operated Silver Ion Detection with a Ti₃C₂T_x MXene Field-Effect Transistor. Analytical Chemistry, 2021, 93, 8010-8018.	6.5	35
105	Highly efficient degradation of dimethyl phthalate from Cu(II) and dimethyl phthalate wastewater by EDTA enhanced ozonation: Performance, intermediates and mechanism. Journal of Hazardous Materials, 2019, 366, 378-385.	12.4	33
106	Nanoscale Discharge Electrode for Minimizing Ozone Emission from Indoor Corona Devices. Environmental Science & Technology, 2010, 44, 6337-6342.	10.0	32
107	Organometallic Precursor-Derived SnO₂/Sn-Reduced Graphene Oxide Sandwiched Nanocomposite Anode with Superior Lithium Storage Capacity. ACS Applied Materials & Interfaces, 2018, 10, 26170-26177.	8.0	32
108	One-step, continuous synthesis of a spherical Li4Ti5O12/graphene composite as an ultra-long cycle life lithium-ion battery anode. NPG Asia Materials, 2015, 7, e224-e224.	7.9	30

#	Article	IF	Citations
109	Raman spectroscopic analysis of GeS2â€“Ga2S3â€“PbI2 chalcohalide glasses. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 67, 1351-1356.	3.9	28
110	Ultrasensitive detection of orthophosphate ions with reduced graphene oxide/ferritin field-effect transistor sensors. Environmental Science: Nano, 2017, 4, 856-863.	4.3	28
111	High Anti-Interference Ti₃C₂T_x MXene Field-Effect-Transistor-Based Alkali Indicator. ACS Applied Materials & Interfaces, 2020, 12, 32970-32978.	8.0	28
112	Ultrasensitive detection of disinfection byproduct trichloroacetamide in drinking water with Ag nanoprism@MoS2 heterostructure-based electrochemical sensor. Sensors and Actuators B: Chemical, 2021, 332, 129526.	7.8	28
113	Ti3C2Tx MXene sensor for rapid Hg2+ analysis in high salinity environment. Journal of Hazardous Materials, 2021, 418, 126301.	12.4	27
114	RIPENING OF SILVER NANOPARTICLES ON CARBON NANOTUBES. Nano, 2007, 02, 149-156.	1.0	26
115	Rapid and Sensitive Detection of Mycobacterium tuberculosis by an Enhanced Nanobiosensor. ACS Sensors, 2021, 6, 3367-3376.	7.8	26
116	Selective Deposition of CdSe Nanoparticles on Reduced Graphene Oxide to Understand Photoinduced Charge Transfer in Hybrid Nanostructures. ACS Applied Materials & Interfaces, 2011, 3, 2703-2709.	8.0	25
117	CNT@TiO2 nanohybrids for high-performance anode of lithium-ion batteries. Nanoscale Research Letters, 2013, 8, 499.	5.7	25
118	3D Edgeâ€Enriched Fe₃C@C Nanocrystals with a Coreâ€“Shell Structure Grown on Reduced Graphene Oxide Networks for Efficient Oxygen Reduction Reaction. ChemSusChem, 2018, 11, 3292-3298.	6.8	25
119	Functionâ€Targeted Lanthanideâ€Anchored Polyoxometalateâ€“Cyclodextrin Assembly: Discriminative Sensing of Inorganic Phosphate and Organophosphate. Advanced Functional Materials, 2021, 31, 2104572.	14.9	25
120	Graphene-based electronic biosensors. Journal of Materials Research, 2017, 32, 2954-2965.	2.6	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. Chemical Engineering Journal, 2019, 378, 122195.	12.7	24
122	In-situ synthesized TiC@CNT as high-performance catalysts for oxygen reduction reaction. Carbon, 2018, 126, 566-573.	10.3	23
123	Improving cyclic performance of Si anode for lithium-ion batteries by forming an intermetallic skin. RSC Advances, 2015, 5, 38660-38664.	3.6	22
124	Novel insights into the unique intrinsic sensing behaviors of 2D nanomaterials for volatile organic compounds: from graphene to MoS₂ and black phosphorous. Journal of Materials Chemistry A, 2021, 9, 14411-14421.	10.3	22
125	Promotion of Phenol Electro-oxidation by Oxygen Evolution Reaction on an Active Electrode for Efficient Pollution Control and Hydrogen Evolution. Environmental Science & Technology, 2022, 56, 5753-5762.	10.0	22
126	Aeration-assisted sulfite activation with ferrous for enhanced chloramphenicol degradation. Chemosphere, 2020, 238, 124599.	8.2	21

#	Article	IF	Citations
127	SnO2 nanoparticles incorporated CuO nanopetals on graphene for high-performance room-temperature NO2 sensor. Chemical Physics Letters, 2020, 750, 137485.	2.6	21
128	Formation and properties of the GeS2â€“In2S3â€“KCl new chalcohalide glassy system. Materials Letters, 2006, 60, 741-745.	2.6	20
129	Instantaneous Reduction of Graphene Oxide Paper for Supercapacitor Electrodes with Unimpeded Liquid Permeation. Journal of Physical Chemistry C, 2014, 118, 13493-13502.	3.1	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. Journal of Power Sources, 2019, 410-411, 204-212.	7.8	19
131	Coating carbon nanotubes with colloidal nanocrystals by combining an electrospray technique with directed assembly using an electrostatic field. Nanotechnology, 2008, 19, 455610.	2.6	18
132	In Operando Impedance Spectroscopic Analysis on NiOâ€“WO₃ Nanorod Heterojunction Random Networks for Room-Temperature H₂S Detection. ACS Omega, 2018, 3, 18685-18693.	3.5	18
133	Structure dependence of ultrafast third-order optical nonlinearity for GeS2â€“In2S3â€“CsI chalcohalide glasses. Solid State Communications, 2007, 142, 453-456.	1.9	17
134	Semi-quantitative design of black phosphorous field-effect transistor sensors for heavy metal ion detection in aqueous media. Molecular Systems Design and Engineering, 2019, 4, 491-502.	3.4	17
135	Mechanism of electron beam poled SHG in 0.95GeS2Â·0.05In2S3 chalcogenide glasses. Journal of Physics and Chemistry of Solids, 2007, 68, 158-161.	4.0	16
136	MnO2 cacti-like nanostructured platform powers the enhanced electrochemical immunobiosensing of cortisol. Sensors and Actuators B: Chemical, 2020, 317, 128134.	7.8	16
137	Bifunctional Electrolyzation for Simultaneous Organic Pollutant Degradation and Hydrogen Generation. ACS ES&T Engineering, 2021, 1, 1360-1368.	7.6	16
138	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
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. ACS ES&T Engineering, 2022, 2, 853-862.	7.6	16
140	Controllable photoelectron transfer in CdSe nanocrystalâ€“carbon nanotube hybrid structures. Nanoscale, 2012, 4, 742-746.	5.6	15
141	Field-Effect Transistor Based on Percolation Network of Reduced Graphene Oxide for Real-Time ppb-Level Detection of Lead Ions in Water. ECS Journal of Solid State Science and Technology, 2020, 9, 115012.	1.8	15
142	Hexagonal K₂W₄O₁₃ Nanowires for the Adsorption of Methylene Blue. ACS Applied Nano Materials, 2019, 2, 3802-3812.	5.0	14
143	Micro-structural study of the GeS2â€“In2S3â€“KCl glassy system by Raman scattering. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 64, 1039-1045.	3.9	12
144	Microstructure and thermal properties of the GeS2â€“In2S3â€“CsI glassy system. Journal of Non-Crystalline Solids, 2008, 354, 1298-1302.	3.1	12

#	Article	IF	Citations
145	Ultrasensitive sensors based on aluminum oxide-protected reduced graphene oxide for phosphate ion detection in real water. Molecular Systems Design and Engineering, 2020, 5, 936-942.	3.4	12
146	Exploring the mechanism of the Fe(<scp>iii</scp>)-activated Fenton-like reaction based on a quantitative study. New Journal of Chemistry, 2020, 44, 8952-8959.	2.8	12
147	Persulfate-Induced Three Coordinate Nitrogen (N3C) Vacancies in Defective Carbon Nitride for Enhanced Photocatalytic H2O2 Evolution. Engineering, 2023, 25, 214-221.	6.7	12
148	New chalcohalide glasses from the GeS2â€“In2S3â€“CsCl system. Journal of Non-Crystalline Solids, 2008, 354, 1303-1307.	3.1	11
149	One-dimensional tungsten oxide growth through a grain-by-grain buildup process. Chemical Physics Letters, 2010, 485, 64-68.	2.6	11
150	Hybrid Electrocatalysis: An Advanced Nitrogenâ€Ðoped Graphene/Cobaltâ€Embedded Porous Carbon Polyhedron Hybrid for Efficient Catalysis of Oxygen Reduction and Water Splitting (Adv. Funct. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 T	14.9	11
151	Nickel-phosphate pompon flowers nanostructured network enables the sensitive detection of microRNA. Talanta, 2020, 209, 120511.	5.5	11
152	Rapid synthesis of multifunctional Î²-cyclodextrin nanospheres as alkali-responsive nanocarriers and selective antibiotic adsorbents. Chemical Communications, 2021, 57, 1161-1164.	4.1	11
153	Influence of partial substitution of Mo for Cr on structure and hydrogen storage characteristics of non-stoichiometric Laves phase TiCrB0.9 alloy. International Journal of Hydrogen Energy, 2013, 38, 11955-11963.	7.1	10
154	Recent advances in fieldâ€effect transistor sensing strategies for fast and highly efficient analysis of heavy metal ions. Electrochemical Science Advances, 2022, 2, e2100137.	2.8	10
155	Graphene Field-Effect Transistor Sensors. , 2018, , 113-132.		9
156	Note: Continuous synthesis of uniform vertical graphene on cylindrical surfaces. Review of Scientific Instruments, 2011, 82, 086116.	1.3	8
157	Nitrogen-Enriched Core-Shell Structured Fe/Fe3C-C Nanorods as Advanced Electrocatalysts for Oxygen Reduction Reaction (Adv. Mater. 11/2012). Advanced Materials, 2012, 24, 1398-1398.	21.0	8
158	Highly efficient chloramphenicol degradation by UV and UV/H 2 O 2 processes based on LED light source. Water Environment Research, 2020, 92, 2049-2059.	2.7	6
159	Carbon-nanotube-assisted transmission electron microscopy characterization of aerosol nanoparticles. Journal of Aerosol Science, 2009, 40, 180-184.	3.8	5
160	Hydrogen Evolution: Perpendicularly Oriented MoSe₂ /Graphene Nanosheets as Advanced Electrocatalysts for Hydrogen Evolution (Small 4/2015). Small, 2015, 11, 508-508.	10.0	4
161	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
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 Ga2S3â€“2MCl (M = K, Rb, Cs) glasses using Raman scattering. Journal of Non-Crystalline Solids, 2008, 354, 1175-1178.	3.1	1
164	Protein Viability on Au Nanoparticles during an Electrospray and Electrostatic-Force-Directed Assembly Process. Journal of Nanomaterials, 2010, 2010, 1-6.	2.7	1