

# Shun Mao

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8769659/shun-mao-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

159  
papers

12,633  
citations

58  
h-index

110  
g-index

166  
ext. papers

14,396  
ext. citations

10.3  
avg, IF

6.79  
L-index

#	Paper	IF	Citations
159	Crumpled nitrogen-doped graphene nanosheets with ultrahigh pore volume for high-performance supercapacitor. <i>Advanced Materials</i> , <b>2012</b> , 24, 5610-6	24	801
158	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> , <b>2015</b> , 25, 872-882	15.6	612
157	High-performance bi-functional electrocatalysts of 3D crumpled graphene/cobalt oxide nanohybrids for oxygen reduction and evolution reactions. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 609-616	35.4	524
156	Ultrahigh sensitivity and layer-dependent sensing performance of phosphorene-based gas sensors. <i>Nature Communications</i> , <b>2015</b> , 6, 8632	17.4	491
155	Nitrogen-enriched core-shell structured Fe/Fe <sub>3</sub> C-C nanorods as advanced electrocatalysts for oxygen reduction reaction. <i>Advanced Materials</i> , <b>2012</b> , 24, 1399-404	24	467
154	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> , <b>2014</b> , 4, 1400337	21.8	461
153	Graphene oxide and its reduction: modeling and experimental progress. <i>RSC Advances</i> , <b>2012</b> , 2, 2643	3.7	418
152	Specific protein detection using thermally reduced graphene oxide sheet decorated with gold nanoparticle-antibody conjugates. <i>Advanced Materials</i> , <b>2010</b> , 22, 3521-6	24	411
151	Green preparation of reduced graphene oxide for sensing and energy storage applications. <i>Scientific Reports</i> , <b>2014</b> , 4, 4684	4.9	322
150	Metal-Organic Framework-Based Sensors for Environmental Contaminant Sensing. <i>Nano-Micro Letters</i> , <b>2018</b> , 10, 64	19.5	245
149	Tuning gas-sensing properties of reduced graphene oxide using tin oxide nanocrystals. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 11009		240
148	Perpendicularly oriented MoSe <sub>2</sub> /graphene nanosheets as advanced electrocatalysts for hydrogen evolution. <i>Small</i> , <b>2015</b> , 11, 414-9	11	239
147	Emerging energy and environmental applications of vertically-oriented graphenes. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 2108-21	58.5	220
146	Three-dimensional graphene-based composites for energy applications. <i>Nanoscale</i> , <b>2015</b> , 7, 6924-43	7.7	211
145	Two-dimensional nanomaterial-based field-effect transistors for chemical and biological sensing. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 6872-6904	58.5	210
144	Silicon nanotube anode for lithium-ion batteries. <i>Electrochemistry Communications</i> , <b>2013</b> , 29, 67-70	5.1	194
143	Hg(II) ion detection using thermally reduced graphene oxide decorated with functionalized gold nanoparticles. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 4057-62	7.8	188

142	A general approach to one-pot fabrication of crumpled graphene-based nanohybrids for energy applications. <i>ACS Nano</i> , <b>2012</b> , 6, 7505-13	16.7	186
141	Nickel oxide hollow microsphere for non-enzyme glucose detection. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 251-7	11.8	182
140	Nanocarbon-based gas sensors: progress and challenges. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5573-13		180
139	Controllable synthesis of hollow Si anode for long-cycle-life lithium-ion batteries. <i>Advanced Materials</i> , <b>2014</b> , 26, 4326-32	24	176
138	Carbon Nanotube with Chemically Bonded Graphene Leaves for Electronic and Optoelectronic Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 1556-1562	6.4	173
137	Field-effect transistor biosensors with two-dimensional black phosphorus nanosheets. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 89, 505-510	11.8	166
136	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> , <b>2015</b> , 8, 862-868	35.4	162
135	Metal nitride/graphene nanohybrids: general synthesis and multifunctional titanium nitride/graphene electrocatalyst. <i>Advanced Materials</i> , <b>2011</b> , 23, 5445-50	24	159
134	Direct growth of vertically-oriented graphene for field-effect transistor biosensor. <i>Scientific Reports</i> , <b>2013</b> , 3, 1696	4.9	151
133	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> , <b>2014</b> , 6, 7464-70	9.5	138
132	Facile, noncovalent decoration of graphene oxide sheets with nanocrystals. <i>Nano Research</i> , <b>2009</b> , 2, 192-200		136
131	TiO <sub>2</sub> nanoparticles-decorated carbon nanotubes for significantly improved bioelectricity generation in microbial fuel cells. <i>Journal of Power Sources</i> , <b>2013</b> , 234, 100-106	8.9	119
130	Indium-doped SnO <sub>2</sub> nanoparticle-graphene nanohybrids: simple one-pot synthesis and their selective detection of NO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 4462	13	113
129	Controllable synthesis of silver nanoparticle-decorated reduced graphene oxide hybrids for ammonia detection. <i>Analyst</i> , <b>2013</b> , 138, 2877-82	5	112
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> , <b>2012</b> , 4, 4192-9	9.5	109
127	Growth of carbon nanowalls at atmospheric pressure for one-step gas sensor fabrication. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 202	5	104
126	Understanding growth of carbon nanowalls at atmospheric pressure using normal glow discharge plasma-enhanced chemical vapor deposition. <i>Carbon</i> , <b>2011</b> , 49, 1849-1858	10.4	104
125	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> , <b>2019</b> , 358, 408-418	14.7	98

124	Binding Sn-based nanoparticles on graphene as the anode of rechargeable lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 3300		94
123	A new reducing agent to prepare single-layer, high-quality reduced graphene oxide for device applications. <i>Nanoscale</i> , <b>2011</b> , 3, 2849-53	7.7	92
122	Nanomaterial-enabled Rapid Detection of Water Contaminants. <i>Small</i> , <b>2015</b> , 11, 5336-59	11	90
121	Strategies for Improving the Performance of Sensors Based on Organic Field-Effect Transistors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705642	24	86
120	Ultrasensitive Mercury Ion Detection Using DNA-Functionalized Molybdenum Disulfide Nanosheet/Gold Nanoparticle Hybrid Field-Effect Transistor Device. <i>ACS Sensors</i> , <b>2016</b> , 1, 295-302	9.2	83
119	Hierarchical nanohybrids with porous CNT-networks decorated crumpled graphene balls for supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 9881-9	9.5	81
118	Hierarchical vertically oriented graphene as a catalytic counter electrode in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 188-193	13	78
117	Hydrothermal synthesis of vanadium nitride and modulation of its catalytic performance for oxygen reduction reaction. <i>Nanoscale</i> , <b>2014</b> , 6, 9608-13	7.7	77
116	Highly sensitive protein sensor based on thermally-reduced graphene oxide field-effect transistor. <i>Nano Research</i> , <b>2011</b> , 4, 921-930	10	76
115	NiO-Microflower Formed by Nanowire-weaving Nanosheets with Interconnected Ni-network Decoration as Supercapacitor Electrode. <i>Scientific Reports</i> , <b>2015</b> , 5, 11919	4.9	75
114	Field-Effect Transistor Biosensor for Rapid Detection of Ebola Antigen. <i>Scientific Reports</i> , <b>2017</b> , 7, 10974	4.9	75
113	Rational design of mesoporous NiFe-alloy-based hybrids for oxygen conversion electrocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 7986-7993	13	74
112	Ultrasonic-assisted self-assembly of monolayer graphene oxide for rapid detection of Escherichia coli bacteria. <i>Nanoscale</i> , <b>2013</b> , 5, 3620-6	7.7	74
111	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> , <b>2017</b> , 5, 2972-2980	13	73
110	Graphene Coupled with Nanocrystals: Opportunities and Challenges for Energy and Sensing Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 2441-2454	6.4	72
109	Nanocomposites of Zr(IV)-Based Metal-Organic Frameworks and Reduced Graphene Oxide for Electrochemically Sensing Ciprofloxacin in Water. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 2367-2376	5.6	69
108	Decoration of vertical graphene with tin dioxide nanoparticles for highly sensitive room temperature formaldehyde sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 256, 1011-1020	8.5	69
107	Ag nanocrystal as a promoter for carbon nanotube-based room-temperature gas sensors. <i>Nanoscale</i> , <b>2012</b> , 4, 5887-94	7.7	68

106	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> , <b>2020</b> , 380, 122584	14.7	65
105	A high-performance catalyst support for methanol oxidation with graphene and vanadium carbonitride. <i>Nanoscale</i> , <b>2015</b> , 7, 1301-7	7.7	64
104	The effect of Ag nanoparticle loading on the photocatalytic activity of TiO <sub>2</sub> nanorod arrays. <i>Chemical Physics Letters</i> , <b>2010</b> , 485, 171-175	2.5	64
103	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> , <b>2011</b> , 4, 2525	35.4	58
102	Tuning layered Fe-doped g-C <sub>3</sub> N <sub>4</sub> structure through pyrolysis for enhanced Fenton and photo-Fenton activities. <i>Carbon</i> , <b>2020</b> , 159, 461-470	10.4	58
101	Superior electrocatalysis for hydrogen evolution with crumpled graphene/tungsten disulfide/tungsten trioxide ternary nanohybrids. <i>Nano Energy</i> , <b>2018</b> , 47, 66-73	17.1	52
100	Metal-organic framework-derived core-shell-structured nitrogen-doped CoC <sub>x</sub> /FeCo@C hybrid supported by reduced graphene oxide sheets as high performance bifunctional electrocatalysts for ORR and OER. <i>Journal of Catalysis</i> , <b>2019</b> , 371, 185-195	7.3	52
99	Ultratrace antibiotic sensing using aptamer/graphene-based field-effect transistors. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 126, 664-671	11.8	52
98	Recent advances in sensitive and rapid mercury determination with graphene-based sensors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 6616-6630	13	51
97	Raman scattering studies of the GeS <sub>2</sub> /Ta <sub>2</sub> S <sub>3</sub> /S <sub>2</sub> Cl glassy system. <i>Solid State Communications</i> , <b>2005</b> , 133, 327-332	1.6	50
96	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> , <b>2013</b> , 1, 13404	13	47
95	One-pot synthesis of high-performance Co/graphene electrocatalysts for glucose fuel cells free of enzymes and precious metals. <i>Chemical Communications</i> , <b>2015</b> , 51, 9354-7	5.8	46
94	Three-dimensional carbon-coated Si/rGO nanostructures anchored by nickel foam with carbon nanotubes for Li-ion battery applications. <i>Nano Energy</i> , <b>2015</b> , 15, 679-687	17.1	46
93	Ultrafast hydrogen sensing through hybrids of semiconducting single-walled carbon nanotubes and tin oxide nanocrystals. <i>Nanoscale</i> , <b>2012</b> , 4, 1275-9	7.7	46
92	Metallic CoS <sub>2</sub> nanowire electrodes for high cycling performance supercapacitors. <i>Nanotechnology</i> , <b>2015</b> , 26, 494001	3.4	45
91	Raman scattering studies of the Ge <sub>1-x</sub> S <sub>x</sub> sulfide glasses. <i>Solid State Communications</i> , <b>2006</b> , 137, 408-412	1.6	44
90	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> , <b>2017</b> , 2, 1653-1661	9.2	42
89	Prussian blue analog-derived 2D ultrathin CoFe <sub>2</sub> O <sub>4</sub> nanosheets as high-activity electrocatalysts for the oxygen evolution reaction in alkaline and neutral media. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7328-7332	13	42

88	Ultrasensitive antibiotic sensing with complementary strand DNA assisted aptamer/MoS field-effect transistors. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 145, 111711	11.8	41
87	Enzymeless Glucose Detection Based on CoO/Graphene Microsphere Hybrids. <i>Electroanalysis</i> , <b>2014</b> , 26, 1326-1334	3	41
86	A review on carbon and non-precious metal based cathode catalysts in microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 3056-3089	6.7	41
85	Highly luminescent sensing for nitrofurans and tetracyclines in water based on zeolitic imidazolate framework-8 incorporated with dyes. <i>Talanta</i> , <b>2019</b> , 204, 344-352	6.2	39
84	Electrochemically Sensing of Trichloroacetic Acid with Iron(II) Phthalocyanine and Zn-Based Metal Organic Framework Nanocomposites. <i>ACS Sensors</i> , <b>2019</b> , 4, 1934-1941	9.2	38
83	Effects of N and F doping on structure and photocatalytic properties of anatase TiO <sub>2</sub> nanoparticles. <i>RSC Advances</i> , <b>2013</b> , 3, 16657	3.7	35
82	Specific biosensing using carbon nanotubes functionalized with gold nanoparticle-antibody conjugates. <i>Carbon</i> , <b>2010</b> , 48, 479-486	10.4	35
81	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> , <b>2015</b> , 5, 97-104	3.3	34
80	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> , <b>2016</b> , 328, 482-491	8.9	34
79	Single-walled carbon nanotube field-effect transistors with graphene oxide passivation for fast, sensitive, and selective protein detection. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 42, 186-92	11.8	34
78	Environmental Analysis with 2D Transition-Metal Dichalcogenide-Based Field-Effect Transistors. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 95	19.5	30
77	Real-time electronic sensor based on black phosphorus/Au NPs/DTT hybrid structure: Application in arsenic detection. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 257, 214-219	8.5	30
76	Persulfate and zero valent iron combined conditioning as a sustainable technique for enhancing dewaterability of aerobically digested sludge. <i>Chemosphere</i> , <b>2019</b> , 232, 45-53	8.4	29
75	Nitrogen-boron Dipolar-doped Nanocarbon as a High-efficiency Electrocatalyst for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 481-487	6.7	29
74	Using a strong chemical oxidant, potassium ferrate (KFeO <sub>4</sub> ), in waste activated sludge treatment: A review. <i>Environmental Research</i> , <b>2020</b> , 188, 109764	7.9	28
73	Raman spectroscopic analysis of GeS <sub>2</sub> -Ga <sub>2</sub> S <sub>3</sub> -PbI <sub>2</sub> chalcogenide glasses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2007</b> , 67, 1351-6	4.4	28
72	Real-time and selective detection of nitrates in water using graphene-based field-effect transistor sensors. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 1990-1999	7.1	28
71	Thio-groups decorated covalent triazine frameworks for selective mercury removal. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123702	12.8	27

70	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> , <b>2015</b> , 7, e224-e224	10.3	26
69	Rapid detection of nutrients with electronic sensors: a review. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 837-862	10.3	26
68	Organometallic Precursor-Derived SnO/Sn-Reduced Graphene Oxide Sandwiched Nanocomposite Anode with Superior Lithium Storage Capacity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 26170-26177	9.5	26
67	CNT@TiO <sub>2</sub> nanohybrids for high-performance anode of lithium-ion batteries. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 499	5	25
66	Nanoscale discharge electrode for minimizing ozone emission from indoor corona devices. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 6337-42	10.3	25
65	RIPENING OF SILVER NANOPARTICLES ON CARBON NANOTUBES. <i>Nano</i> , <b>2007</b> , 02, 149-156	1.1	25
64	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> , <b>2021</b> , 413, 127545	14.7	25
63	Highly Enhanced Gas Sensing Performance Using a 1T/2H Heterophase MoS <sub>2</sub> Field-Effect Transistor at Room Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 50610-50618	9.5	24
62	Selective deposition of CdSe nanoparticles on reduced graphene oxide to understand photoinduced charge transfer in hybrid nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 2703-9	9.5	24
61	Ultrasensitive detection of orthophosphate ions with reduced graphene oxide/ferritin field-effect transistor sensors. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 856-863	7.1	23
60	Heterogeneous Electro-Fenton catalysis with HKUST-1-derived Cu@C decorated in 3D graphene network. <i>Chemosphere</i> , <b>2020</b> , 243, 125423	8.4	22
59	3D Edge-Enriched Fe C@C Nanocrystals with a Core-Shell Structure Grown on Reduced Graphene Oxide Networks for Efficient Oxygen Reduction Reaction. <i>ChemSusChem</i> , <b>2018</b> , 11, 3292-3298	8.3	21
58	Highly sensitive and selective fluorescent detection of phosphate in water environment by a functionalized coordination polymer. <i>Water Research</i> , <b>2019</b> , 163, 114883	12.5	21
57	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> , <b>2019</b> , 366, 378-385	12.8	21
56	Improving cyclic performance of Si anode for lithium-ion batteries by forming an intermetallic skin. <i>RSC Advances</i> , <b>2015</b> , 5, 38660-38664	3.7	20
55	Formation and properties of the GeS <sub>2</sub> In <sub>2</sub> S <sub>3</sub> Cl new chalcogenide glassy system. <i>Materials Letters</i> , <b>2006</b> , 60, 741-745	3.3	20
54	Enhanced peroxydisulfate oxidation via Cu(III) species with a Cu-MOF-derived Cu nanoparticle and 3D graphene network. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123691	12.8	20
53	One-pot synthesis of ultrafine NiO loaded and Ti <sup>3+</sup> in-situ doped TiO <sub>2</sub> induced by cyclodextrin for efficient visible-light photodegradation of hydrophobic pollutants. <i>Chemical Engineering Journal</i> , <b>2020</b> , 402, 126211	14.7	19

52	In-situ synthesized TiC@CNT as high-performance catalysts for oxygen reduction reaction. <i>Carbon</i> , <b>2018</b> , 126, 566-573	10.4	18
51	Enhanced Photocatalytic Removal of Tetrabromobisphenol A by Magnetic [email protected] Nanocomposites under Visible-Light Irradiation. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 2698-2708	6.1	18
50	Graphene-based electronic biosensors. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 2954-2965	2.5	17
49	Coating carbon nanotubes with colloidal nanocrystals by combining an electrospray technique with directed assembly using an electrostatic field. <i>Nanotechnology</i> , <b>2008</b> , 19, 455610	3.4	16
48	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> , <b>2019</b> , 410-411, 204-212	8.9	16
47	Structure dependence of ultrafast third-order optical nonlinearity for GeS <sub>2</sub> In <sub>2</sub> S <sub>3</sub> chalcogenide glasses. <i>Solid State Communications</i> , <b>2007</b> , 142, 453-456	1.6	15
46	Mechanism of electron beam poled SHG in 0.95GeS <sub>2</sub> 0.05In <sub>2</sub> S <sub>3</sub> chalcogenide glasses. <i>Journal of Physics and Chemistry of Solids</i> , <b>2007</b> , 68, 158-161	3.9	15
45	SnO <sub>2</sub> nanoparticles incorporated CuO nanopetals on graphene for high-performance room-temperature NO <sub>2</sub> sensor. <i>Chemical Physics Letters</i> , <b>2020</b> , 750, 137485	2.5	14
44	High Anti-Interference TiCT MXene Field-Effect-Transistor-Based Alkali Indicator. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 32970-32978	9.5	14
43	Instantaneous Reduction of Graphene Oxide Paper for Supercapacitor Electrodes with Unimpeded Liquid Permeation. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 13493-13502	3.8	14
42	In Operando Impedance Spectroscopic Analysis on NiO-WO Nanorod Heterojunction Random Networks for Room-Temperature HS Detection. <i>ACS Omega</i> , <b>2018</b> , 3, 18685-18693	3.9	14
41	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> , <b>2022</b> , 428, 132531	14.7	13
40	Controllable photoelectron transfer in CdSe nanocrystal-carbon nanotube hybrid structures. <i>Nanoscale</i> , <b>2012</b> , 4, 742-6	7.7	12
39	Microstructure and thermal properties of the GeS <sub>2</sub> In <sub>2</sub> S <sub>3</sub> glassy system. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 1298-1302	3.9	12
38	Micro-structural study of the GeS <sub>2</sub> -In <sub>2</sub> S <sub>3</sub> -KCl glassy system by Raman scattering. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2006</b> , 64, 1039-45	4.4	12
37	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> , <b>2021</b> , 423, 130250	14.7	12
36	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. 6/2015). <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 871-871	15.6	11
35	One-dimensional tungsten oxide growth through a grain-by-grain buildup process. <i>Chemical Physics Letters</i> , <b>2010</b> , 485, 64-68	2.5	11



34	New chalcohalide glasses from the $\text{GeS}_2\text{In}_2\text{S}_3\text{AsCl}$ system. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 1303-1307	3.9	11
33	Label-Free, Fast Response, and Simply Operated Silver Ion Detection with a TiCT MXene Field-Effect Transistor. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 8010-8018	7.8	11
32	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> , <b>2019</b> , 4, 491-502	4.6	10
31	Influence of partial substitution of Mo for Cr on structure and hydrogen storage characteristics of non-stoichiometric Laves phase $\text{TiCrB}_{0.9}$ alloy. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 11955-11963 <sup>10</sup>	6.7	10
30	HS sensing under various humidity conditions with Ag nanoparticle functionalized TiCT MXene field-effect transistors. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 424, 127492	12.8	10
29	Novel insights into the unique intrinsic sensing behaviors of 2D nanomaterials for volatile organic compounds: from graphene to $\text{MoS}_2$ and black phosphorous. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 14411-14421	13	10
28	Hexagonal $\text{K}_2\text{W}_4\text{O}_{13}$ Nanowires for the Adsorption of Methylene Blue. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 3802-3812	5.6	9
27	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> , <b>2020</b> , 9, 115012	2	9
26	Aeration-assisted sulfite activation with ferrous for enhanced chloramphenicol degradation. <i>Chemosphere</i> , <b>2020</b> , 238, 124599	8.4	9
25	TiCT MXene sensor for rapid Hg analysis in high salinity environment. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 418, 126301	12.8	9
24	Graphene Field-Effect Transistor Sensors <b>2018</b> , 113-132		8
23	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> , <b>2019</b> , 378, 122195 <sup>7</sup>	14.7	8
22	Note: Continuous synthesis of uniform vertical graphene on cylindrical surfaces. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 086116	1.7	8
21	Nickel-phosphate pompon flowers nanostructured network enables the sensitive detection of microRNA. <i>Talanta</i> , <b>2020</b> , 209, 120511	6.2	8
20	Ultrasensitive detection of disinfection byproduct trichloroacetamide in drinking water with Ag nanoprism@ $\text{MoS}_2$ heterostructure-based electrochemical sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 332, 129526	8.5	8
19	$\text{MnO}_2$ cacti-like nanostructured platform powers the enhanced electrochemical immunobiosensing of cortisol. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 317, 128134	8.5	7
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> , <b>2020</b> , 5, 936-942	4.6	7
17	Nitrogen-Enriched Core-Shell Structured $\text{Fe}/\text{Fe}_3\text{C}-\text{C}$ Nanorods as Advanced Electrocatalysts for Oxygen Reduction Reaction (Adv. Mater. 11/2012). <i>Advanced Materials</i> , <b>2012</b> , 24, 1398-1398	24	7

16	Exploring the mechanism of the Fe(III)-activated Fenton-like reaction based on a quantitative study. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 8952-8959	3.6	6
15	Carbon-nanotube-assisted transmission electron microscopy characterization of aerosol nanoparticles. <i>Journal of Aerosol Science</i> , <b>2009</b> , 40, 180-184	4.3	5
14	Highly efficient chloramphenicol degradation by UV and UV/H <sub>2</sub> O <sub>2</sub> processes based on LED light source. <i>Water Environment Research</i> , <b>2020</b> , 92, 2049-2059	2.8	4
13	Rapid synthesis of multifunctional Cyclodextrin nanospheres as alkali-responsive nanocarriers and selective antibiotic adsorbents. <i>Chemical Communications</i> , <b>2021</b> , 57, 1161-1164	5.8	4
12	Function-Targeted Lanthanide-Anchored Polyoxometalate-Cyclodextrin Assembly: Discriminative Sensing of Inorganic Phosphate and Organophosphate. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104572	15.6	4
11	Hydrogen Evolution: Perpendicularly Oriented MoSe <sub>2</sub> /Graphene Nanosheets as Advanced Electrocatalysts for Hydrogen Evolution (Small 4/2015). <i>Small</i> , <b>2015</b> , 11, 508-508	11	3
10	Rapid and Sensitive Detection of by an Enhanced Nanobiosensor. <i>ACS Sensors</i> , <b>2021</b> , 6, 3367-3376	9.2	3
9	Fabrication and characterization of microwave immunosensors based on organic semiconductors with nanogold-labeled antibody. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 2381-4	0.9	2
8	Selective Removal of Phenolic Compounds by Peroxydisulfate Activation: Inherent Role of Hydrophobicity and Interface ROS.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	2
7	Bifunctional Catalytic Cooperativity on Nanoedge: Oriented CeFe Bimetallic Fenton Electrocatalysts for Organic Pollutant Control. <i>ACS ES&amp;T Engineering</i> ,		2
6	Bifunctional Electrolyzation for Simultaneous Organic Pollutant Degradation and Hydrogen Generation. <i>ACS ES&amp;T Engineering</i> , <b>2021</b> , 1, 1360-1368		2
5	Microstructural analysis of Ga <sub>2</sub> S <sub>3</sub> /MCl (M = K, Rb, Cs) glasses using Raman scattering. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 1175-1178	3.9	1
4	Recent advances in field-effect transistor sensing strategies for fast and highly efficient analysis of heavy metal ions. <i>Electrochemical Science Advances</i> , e2100137		1
3	Catalytic Performances of NiCuP@rGO and NiCuN@rGO for Oxygen Reduction and Oxygen Evolution Reactions in Alkaline Electrolyte. <i>ChemistrySelect</i> , <b>2020</b> , 5, 5855-5863	1.8	0
2	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> , <b>2022</b> , 314, 121485	21.8	0
1	Protein Viability on Au Nanoparticles during an Electrospray and Electrostatic-Force-Directed Assembly Process. <i>Journal of Nanomaterials</i> , <b>2010</b> , 2010, 1-6	3.2	