Shun Mao

List of Publications by Year in Descending Order

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	Selective Removal of Phenolic Compounds by Peroxydisulfate Activation: Inherent Role of Hydrophobicity and Interface ROS.. *Environmental Science & Technology*, **2022**,	10.3	2
158	HS sensing under various humidity conditions with Ag nanoparticle functionalized TiCT MXene field-effect transistors. *Journal of Hazardous Materials*, **2022**, 424, 127492	12.8	10
157	Highly efficient photocatalytic H2O2 production with cyano and SnO2 co-modified g-C3N4. *Chemical Engineering Journal*, **2022**, 428, 132531	14.7	13
156	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	21.8	0
155	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	8.5	8
154	Label-Free, Fast Response, and Simply Operated Silver Ion Detection with a TiCT MXene Field-Effect Transistor. *Analytical Chemistry*, **2021**, 93, 8010-8018	7.8	11
153	Bifunctional Electrolyzation for Simultaneous Organic Pollutant Degradation and Hydrogen Generation. *ACS ES&T Engineering*, **2021**, 1, 1360-1368		2
152	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	12.8	20
151	Thio-groups decorated covalent triazine frameworks for selective mercury removal. *Journal of Hazardous Materials*, **2021**, 403, 123702	12.8	27
150	A review on carbon and non-precious metal based cathode catalysts in microbial fuel cells. *International Journal of Hydrogen Energy*, **2021**, 46, 3056-3089	6.7	41
149	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	14.7	25
148	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	13	10
147	Rapid synthesis of multifunctional □-cyclodextrin nanospheres as alkali-responsive nanocarriers and selective antibiotic adsorbents. *Chemical Communications*, **2021**, 57, 1161-1164	5.8	4
146	Function-Targeted Lanthanide-Anchored Polyoxometalate□Cyclodextrin Assembly: Discriminative Sensing of Inorganic Phosphate and Organophosphate. *Advanced Functional Materials*, **2021**, 31, 2104572	15.6	4
145	TiCT MXene sensor for rapid Hg analysis in high salinity environment. *Journal of Hazardous Materials*, **2021**, 418, 126301	12.8	9
144	Rapid and Sensitive Detection of by an Enhanced Nanobiosensor. *ACS Sensors*, **2021**, 6, 3367-3376	9.2	3
143	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	14.7	12

142	Highly Enhanced Gas Sensing Performance Using a 1T/2H Heterophase MoS Field-Effect Transistor at Room Temperature. *ACS Applied Materials & Interfaces*, **2020**, 12, 50610-50618	9.5	24
141	Highly efficient chloramphenicol degradation by UV and UV/H O processes based on LED light source. *Water Environment Research*, **2020**, 92, 2049-2059	2.8	4
140	MnO2 cacti-like nanostructured platform powers the enhanced electrochemical immunobiosensing of cortisol. *Sensors and Actuators B: Chemical*, **2020**, 317, 128134	8.5	7
139	Catalytic Performances of NiCuP@rGO and NiCuN@rGO for Oxygen Reduction and Oxygen Evolution Reactions in Alkaline Electrolyte. *ChemistrySelect*, **2020**, 5, 5855-5863	1.8	0
138	SnO2 nanoparticles incorporated CuO nanopetals on graphene for high-performance room-temperature NO2 sensor. *Chemical Physics Letters*, **2020**, 750, 137485	2.5	14
137	Using a strong chemical oxidant, potassium ferrate (KFeO), in waste activated sludge treatment: A review. *Environmental Research*, **2020**, 188, 109764	7.9	28
136	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	4.6	7
135	High Anti-Interference TiCT MXene Field-Effect-Transistor-Based Alkali Indicator. *ACS Applied Materials & Interfaces*, **2020**, 12, 32970-32978	9.5	14
134	Exploring the mechanism of the Fe(III)-activated Fenton-like reaction based on a quantitative study. *New Journal of Chemistry*, **2020**, 44, 8952-8959	3.6	6
133	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	2	9
132	Nickel-phosphate pompon flowers nanostructured network enables the sensitive detection of microRNA. *Talanta*, **2020**, 209, 120511	6.2	8
131	Tuning layered Fe-doped g-C3N4 structure through pyrolysis for enhanced Fenton and photo-Fenton activities. *Carbon*, **2020**, 159, 461-470	10.4	58
130	Heterogeneous Electro-Fenton catalysis with HKUST-1-derived Cu@C decorated in 3D graphene network. *Chemosphere*, **2020**, 243, 125423	8.4	22
129	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	14.7	19
128	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	14.7	65
127	Aeration-assisted sulfite activation with ferrous for enhanced chloramphenicol degradation. *Chemosphere*, **2020**, 238, 124599	8.4	9
126	Environmental Analysis with 2D Transition-Metal Dichalcogenide-Based Field-Effect Transistors. *Nano-Micro Letters*, **2020**, 12, 95	19.5	30
125	Ultraselective antibiotic sensing with complementary strand DNA assisted aptamer/MoS field-effect transistors. *Biosensors and Bioelectronics*, **2019**, 145, 111711	11.8	41

124	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	4.6	10
123	Highly luminescent sensing for nitrofurans and tetracyclines in water based on zeolitic imidazolate framework-8 incorporated with dyes. *Talanta*, **2019**, 204, 344-352	6.2	39
122	Hexagonal K2W4O13 Nanowires for the Adsorption of Methylene Blue. *ACS Applied Nano Materials*, **2019**, 2, 3802-3812	5.6	9
121	Persulfate and zero valent iron combined conditioning as a sustainable technique for enhancing dewaterability of aerobically digested sludge. *Chemosphere*, **2019**, 232, 45-53	8.4	29
120	Nanocomposites of Zr(IV)-Based Metal□Organic Frameworks and Reduced Graphene Oxide for Electrochemically Sensing Ciprofloxacin in Water. *ACS Applied Nano Materials*, **2019**, 2, 2367-2376	5.6	69
119	Highly sensitive and selective fluorescent detection of phosphate in water environment by a functionalized coordination polymer. *Water Research*, **2019**, 163, 114883	12.5	21
118	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	14.7	8
117	Electrochemically Sensing of Trichloroacetic Acid with Iron(II) Phthalocyanine and Zn-Based Metal Organic Framework Nanocomposites. *ACS Sensors*, **2019**, 4, 1934-1941	9.2	38
116	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	13	42
115	Recent advances in sensitive and rapid mercury determination with graphene-based sensors. *Journal of Materials Chemistry A*, **2019**, 7, 6616-6630	13	51
114	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	7.3	52
113	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	8.9	16
112	Ultratrace antibiotic sensing using aptamer/graphene-based field-effect transistors. *Biosensors and Bioelectronics*, **2019**, 126, 664-671	11.8	52
111	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	12.8	21
110	Activation of persulfate with metal□organic framework-derived nitrogen-doped porous Co@C nanoboxes for highly efficient p-Chloroaniline removal. *Chemical Engineering Journal*, **2019**, 358, 408-418	14.7	98
109	Rapid detection of nutrients with electronic sensors: a review. *Environmental Science: Nano*, **2018**, 5, 837-862	7.3	26
108	Superior electrocatalysis for hydrogen evolution with crumpled graphene/tungsten disulfide/tungsten trioxide ternary nanohybrids. *Nano Energy*, **2018**, 47, 66-73	17.1	52
107	Strategies for Improving the Performance of Sensors Based on Organic Field-Effect Transistors. *Advanced Materials*, **2018**, 30, e1705642	24	86

106	Decoration of vertical graphene with tin dioxide nanoparticles for highly sensitive room temperature formaldehyde sensing. *Sensors and Actuators B: Chemical*, **2018**, 256, 1011-1020	8.5	69
105	Graphene Field-Effect Transistor Sensors **2018**, 113-132		8
104	3D Edge-Enriched Fe C@C Nanocrystals with a Core-Shell Structure Grown on Reduced Graphene Oxide Networks for Efficient Oxygen Reduction Reaction. *ChemSusChem*, **2018**, 11, 3292-3298	8.3	21
103	Metal-Organic Framework-Based Sensors for Environmental Contaminant Sensing. *Nano-Micro Letters*, **2018**, 10, 64	19.5	245
102	Organometallic Precursor-Derived SnO/Sn-Reduced Graphene Oxide Sandwiched Nanocomposite Anode with Superior Lithium Storage Capacity. *ACS Applied Materials & Interfaces*, **2018**, 10, 26170-26177	9.5	26
101	In-situ synthesized TiC@CNT as high-performance catalysts for oxygen reduction reaction. *Carbon*, **2018**, 126, 566-573	10.4	18
100	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	8.5	30
99	In Operando Impedance Spectroscopic Analysis on NiO-WO Nanorod Heterojunction Random Networks for Room-Temperature HS Detection. *ACS Omega*, **2018**, 3, 18685-18693	3.9	14
98	Enhanced Photocatalytic Removal of Tetrabromobisphenol A by Magnetic Nanocomposites under Visible-Light Irradiation. *ACS Applied Energy Materials*, **2018**, 1, 2698-2708	6.1	18
97	Real-time and selective detection of nitrates in water using graphene-based field-effect transistor sensors. *Environmental Science: Nano*, **2018**, 5, 1990-1999	7.1	28
96	Field-effect transistor biosensors with two-dimensional black phosphorus nanosheets. *Biosensors and Bioelectronics*, **2017**, 89, 505-510	11.8	166
95	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	13	73
94	Ultrasensitive detection of orthophosphate ions with reduced graphene oxide/ferritin field-effect transistor sensors. *Environmental Science: Nano*, **2017**, 4, 856-863	7.1	23
93	Graphene-based electronic biosensors. *Journal of Materials Research*, **2017**, 32, 2954-2965	2.5	17
92	Field-Effect Transistor Biosensor for Rapid Detection of Ebola Antigen. *Scientific Reports*, **2017**, 7, 10974	4.9	75
91	Two-dimensional nanomaterial-based field-effect transistors for chemical and biological sensing. *Chemical Society Reviews*, **2017**, 46, 6872-6904	58.5	210
90	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	9.2	42
89	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	8.9	34

88	Nitrogen-boron Dipolar-doped Nanocarbon as a High-efficiency Electrocatalyst for Oxygen Reduction Reaction. *Electrochimica Acta*, **2016**, 222, 481-487	6.7	29
87	Ultrasensitive Mercury Ion Detection Using DNA-Functionalized Molybdenum Disulfide Nanosheet/Gold Nanoparticle Hybrid Field-Effect Transistor Device. *ACS Sensors*, **2016**, 1, 295-302	9.2	83
86	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). *Advanced Functional Materials*, **2015**, 25, 871-871	15.6	11
85	Emerging energy and environmental applications of vertically-oriented graphenes. *Chemical Society Reviews*, **2015**, 44, 2108-21	58.5	220
84	Rational design of mesoporous NiFe-alloy-based hybrids for oxygen conversion electrocatalysis. *Journal of Materials Chemistry A*, **2015**, 3, 7986-7993	13	74
83	NiO-Microflower Formed by Nanowire-weaving Nanosheets with Interconnected Ni-network Decoration as Supercapacitor Electrode. *Scientific Reports*, **2015**, 5, 11919	4.9	75
82	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	3.3	34
81	One-pot synthesis of high-performance Co/graphene electrocatalysts for glucose fuel cells free of enzymes and precious metals. *Chemical Communications*, **2015**, 51, 9354-7	5.8	46
80	Ultrahigh sensitivity and layer-dependent sensing performance of phosphorene-based gas sensors. *Nature Communications*, **2015**, 6, 8632	17.4	491
79	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	10.3	26
78	An Advanced Nitrogen-Doped Graphene/Cobalt-Embedded Porous Carbon Polyhedron Hybrid for Efficient Catalysis of Oxygen Reduction and Water Splitting. *Advanced Functional Materials*, **2015**, 25, 872-882	15.6	612
77	Three-dimensional graphene-based composites for energy applications. *Nanoscale*, **2015**, 7, 6924-43	7.7	211
76	A high-performance catalyst support for methanol oxidation with graphene and vanadium carbonitride. *Nanoscale*, **2015**, 7, 1301-7	7.7	64
75	Perpendicularly oriented MoSe2 /graphene nanosheets as advanced electrocatalysts for hydrogen evolution. *Small*, **2015**, 11, 414-9	11	239
74	Nanomaterial-enabled Rapid Detection of Water Contaminants. *Small*, **2015**, 11, 5336-59	11	90
73	Improving cyclic performance of Si anode for lithium-ion batteries by forming an intermetallic skin. *RSC Advances*, **2015**, 5, 38660-38664	3.7	20
72	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	17.1	46
71	Metallic CoSnanowire electrodes for high cycling performance supercapacitors. *Nanotechnology*, **2015**, 26, 494001	3.4	45

70	Amorphous MoSxCly electrocatalyst supported by vertical graphene for efficient electrochemical and photoelectrochemical hydrogen generation. *Energy and Environmental Science*, **2015**, 8, 862-868	35.4	162
69	Hydrogen Evolution: Perpendicularly Oriented MoSe2/Graphene Nanosheets as Advanced Electrocatalysts for Hydrogen Evolution (Small 4/2015). *Small*, **2015**, 11, 508-508	11	3
68	Green preparation of reduced graphene oxide for sensing and energy storage applications. *Scientific Reports*, **2014**, 4, 4684	4.9	322
67	Nanocarbon-based gas sensors: progress and challenges. *Journal of Materials Chemistry A*, **2014**, 2, 5573	13	180
66	Controllable synthesis of hollow Si anode for long-cycle-life lithium-ion batteries. *Advanced Materials*, **2014**, 26, 4326-32	24	176
65	Hierarchical nanohybrids with porous CNT-networks decorated crumpled graphene balls for supercapacitors. *ACS Applied Materials & Interfaces*, **2014**, 6, 9881-9	9.5	81
64	High-performance bi-functional electrocatalysts of 3D crumpled graphene–cobalt oxide nanohybrids for oxygen reduction and evolution reactions. *Energy and Environmental Science*, **2014**, 7, 609-616	35.4	524
63	Enzymeless Glucose Detection Based on CoO/Graphene Microsphere Hybrids. *Electroanalysis*, **2014**, 26, 1326-1334	3	41
62	Instantaneous Reduction of Graphene Oxide Paper for Supercapacitor Electrodes with Unimpeded Liquid Permeation. *Journal of Physical Chemistry C*, **2014**, 118, 13493-13502	3.8	14
61	Hydrothermal synthesis of vanadium nitride and modulation of its catalytic performance for oxygen reduction reaction. *Nanoscale*, **2014**, 6, 9608-13	7.7	77
60	Synthesizing nitrogen-doped activated carbon and probing its active sites for oxygen reduction reaction in microbial fuel cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 7464-70	9.5	138
59	Nickel oxide hollow microsphere for non-enzyme glucose detection. *Biosensors and Bioelectronics*, **2014**, 54, 251-7	11.8	182
58	Metal–Organic Framework-Derived Nitrogen-Doped Core-Shell-Structured Porous Fe/Fe3C@C Nanoboxes Supported on Graphene Sheets for Efficient Oxygen Reduction Reactions. *Advanced Energy Materials*, **2014**, 4, 1400337	21.8	461
57	Graphene Coupled with Nanocrystals: Opportunities and Challenges for Energy and Sensing Applications. *Journal of Physical Chemistry Letters*, **2013**, 4, 2441-2454	6.4	72
56	Effects of N and F doping on structure and photocatalytic properties of anatase TiO2 nanoparticles. *RSC Advances*, **2013**, 3, 16657	3.7	35
55	TiO2 nanoparticles-decorated carbon nanotubes for significantly improved bioelectricity generation in microbial fuel cells. *Journal of Power Sources*, **2013**, 234, 100-106	8.9	119
54	CNT@TiO2 nanohybrids for high-performance anode of lithium-ion batteries. *Nanoscale Research Letters*, **2013**, 8, 499	5	25
53	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	13	47

52	Hierarchical vertically oriented graphene as a catalytic counter electrode in dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 188-193	13	78
51	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	6.7	10
50	Single-walled carbon nanotube field-effect transistors with graphene oxide passivation for fast, sensitive, and selective protein detection. *Biosensors and Bioelectronics*, **2013**, 42, 186-92	11.8	34
49	Silicon nanotube anode for lithium-ion batteries. *Electrochemistry Communications*, **2013**, 29, 67-70	5.1	194
48	Indium-doped SnO2 nanoparticle□graphene nanohybrids: simple one-pot synthesis and their selective detection of NO2. *Journal of Materials Chemistry A*, **2013**, 1, 4462	13	113
47	Controllable synthesis of silver nanoparticle-decorated reduced graphene oxide hybrids for ammonia detection. *Analyst, The*, **2013**, 138, 2877-82	5	112
46	Ultrasonic-assisted self-assembly of monolayer graphene oxide for rapid detection of Escherichia coli bacteria. *Nanoscale*, **2013**, 5, 3620-6	7.7	74
45	Direct growth of vertically-oriented graphene for field-effect transistor biosensor. *Scientific Reports*, **2013**, 3, 1696	4.9	151
44	Nitrogen-enriched core-shell structured Fe/Fe(3)C-C nanorods as advanced electrocatalysts for oxygen reduction reaction. *Advanced Materials*, **2012**, 24, 1399-404	24	467
43	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	24	7
42	Crumpled nitrogen-doped graphene nanosheets with ultrahigh pore volume for high-performance supercapacitor. *Advanced Materials*, **2012**, 24, 5610-6	24	801
41	Ultrafast hydrogen sensing through hybrids of semiconducting single-walled carbon nanotubes and tin oxide nanocrystals. *Nanoscale*, **2012**, 4, 1275-9	7.7	46
40	Tuning gas-sensing properties of reduced graphene oxide using tin oxide nanocrystals. *Journal of Materials Chemistry*, **2012**, 22, 11009		240
39	Ag nanocrystal as a promoter for carbon nanotube-based room-temperature gas sensors. *Nanoscale*, **2012**, 4, 5887-94	7.7	68
38	Hg(II) ion detection using thermally reduced graphene oxide decorated with functionalized gold nanoparticles. *Analytical Chemistry*, **2012**, 84, 4057-62	7.8	188
37	Modulating gas sensing properties of CuO nanowires through creation of discrete nanosized p-n junctions on their surfaces. *ACS Applied Materials & Interfaces*, **2012**, 4, 4192-9	9.5	109
36	A general approach to one-pot fabrication of crumpled graphene-based nanohybrids for energy applications. *ACS Nano*, **2012**, 6, 7505-13	16.7	186
35	Binding Sn-based nanoparticles on graphene as the anode of rechargeable lithium-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 3300		94

34	Controllable photoelectron transfer in CdSe nanocrystal-carbon nanotube hybrid structures. *Nanoscale*, **2012**, 4, 742-6	7.7	12
33	Graphene oxide and its reduction: modeling and experimental progress. *RSC Advances*, **2012**, 2, 2643	3.7	418
32	Selective deposition of CdSe nanoparticles on reduced graphene oxide to understand photoinduced charge transfer in hybrid nanostructures. *ACS Applied Materials & Interfaces*, **2011**, 3, 2703-9	9.5	24
31	Carbon Nanotube with Chemically Bonded Graphene Leaves for Electronic and Optoelectronic Applications. *Journal of Physical Chemistry Letters*, **2011**, 2, 1556-1562	6.4	173
30	A new reducing agent to prepare single-layer, high-quality reduced graphene oxide for device applications. *Nanoscale*, **2011**, 3, 2849-53	7.7	92
29	Highly sensitive protein sensor based on thermally-reduced graphene oxide field-effect transistor. *Nano Research*, **2011**, 4, 921-930	10	76
28	Growth of carbon nanowalls at atmospheric pressure for one-step gas sensor fabrication. *Nanoscale Research Letters*, **2011**, 6, 202	5	104
27	Metal nitride/graphene nanohybrids: general synthesis and multifunctional titanium nitride/graphene electrocatalyst. *Advanced Materials*, **2011**, 23, 5445-50	24	159
26	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	35.4	58
25	Understanding growth of carbon nanowalls at atmospheric pressure using normal glow discharge plasma-enhanced chemical vapor deposition. *Carbon*, **2011**, 49, 1849-1858	10.4	104
24	Note: Continuous synthesis of uniform vertical graphene on cylindrical surfaces. *Review of Scientific Instruments*, **2011**, 82, 086116	1.7	8
23	Protein Viability on Au Nanoparticles during an Electrospray and Electrostatic-Force-Directed Assembly Process. *Journal of Nanomaterials*, **2010**, 2010, 1-6	3.2	
22	Nanoscale discharge electrode for minimizing ozone emission from indoor corona devices. *Environmental Science & Technology*, **2010**, 44, 6337-42	10.3	25
21	Specific protein detection using thermally reduced graphene oxide sheet decorated with gold nanoparticle-antibody conjugates. *Advanced Materials*, **2010**, 22, 3521-6	24	411
20	Specific biosensing using carbon nanotubes functionalized with gold nanoparticle□antibody conjugates. *Carbon*, **2010**, 48, 479-486	10.4	35
19	One-dimensional tungsten oxide growth through a grain-by-grain buildup process. *Chemical Physics Letters*, **2010**, 485, 64-68	2.5	11
18	The effect of Ag nanoparticle loading on the photocatalytic activity of TiO2 nanorod arrays. *Chemical Physics Letters*, **2010**, 485, 171-175	2.5	64
17	Facile, noncovalent decoration of graphene oxide sheets with nanocrystals. *Nano Research*, **2009**, 2, 192-200	10	136

16	Carbon-nanotube-assisted transmission electron microscopy characterization of aerosol nanoparticles. *Journal of Aerosol Science*, **2009**, 40, 180-184	4.3	5
15	Microstructural analysis of Ga2S3–MCl (M = K, Rb, Cs) glasses using Raman scattering. *Journal of Non-Crystalline Solids*, **2008**, 354, 1175-1178	3.9	1
14	New chalcohalide glasses from the GeS2–In2S3–CsCl system. *Journal of Non-Crystalline Solids*, **2008**, 354, 1303-1307	3.9	11
13	Microstructure and thermal properties of the GeS2–In2S3–CsI glassy system. *Journal of Non-Crystalline Solids*, **2008**, 354, 1298-1302	3.9	12
12	Coating carbon nanotubes with colloidal nanocrystals by combining an electrospray technique with directed assembly using an electrostatic field. *Nanotechnology*, **2008**, 19, 455610	3.4	16
11	Fabrication and characterization of microwave immunosensors based on organic semiconductors with nanogold-labeled antibody. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2008**, 2008, 2361-4	0.9	2
10	Structure dependence of ultrafast third-order optical nonlinearity for GeS2–In2S3–CsI chalcohalide glasses. *Solid State Communications*, **2007**, 142, 453-456	1.6	15
9	Mechanism of electron beam poled SHG in 0.95GeS2–0.05In2S3 chalcogenide glasses. *Journal of Physics and Chemistry of Solids*, **2007**, 68, 158-161	3.9	15
8	Raman spectroscopic analysis of GeS2-Ga2S3-PbI2 chalcohalide glasses. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2007**, 67, 1351-6	4.4	28
7	RIPENING OF SILVER NANOPARTICLES ON CARBON NANOTUBES. *Nano*, **2007**, 02, 149-156	1.1	25
6	Formation and properties of the GeS2–In2S3–KCl new chalcohalide glassy system. *Materials Letters*, **2006**, 60, 741-745	3.3	20
5	Micro-structural study of the GeS2-In2S3-KCl glassy system by Raman scattering. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2006**, 64, 1039-45	4.4	12
4	Raman scattering studies of the Ge–In sulfide glasses. *Solid State Communications*, **2006**, 137, 408-412	1.6	44
3	Raman scattering studies of the GeS2–Ga2S3–CsCl glassy system. *Solid State Communications*, **2005**, 133, 327-332	1.6	50
2	Bifunctional Catalytic Cooperativity on Nanoedge: Oriented Ce–Fe Bimetallic Fenton Electrocatalysts for Organic Pollutant Control. *ACS ES&T Engineering*,		2
1	Recent advances in field-effect transistor sensing strategies for fast and highly efficient analysis of heavy metal ions. *Electrochemical Science Advances*,e2100137		1