

Jie Liu

List of Publications by Year in descending order

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249
papers

28,519
citations

2278

93
h-index

4155

164
g-index

253
all docs

253
docs citations

253
times ranked

32364
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Step Synthesis of a High Entropy Oxide-Supported Rhodium Catalyst for Highly Selective CO ₂ Hydrogenation. ACS Applied Materials & Interfaces, 2023, 15, 31384-31392.	8.1	11
2	Controlling product selectivity in hybrid gas/liquid reactors using gas conditions, voltage, and temperature. Nanoscale, 2023, 15, 9423-9431.	5.1	1
3	Broadband Plasmonic Photocatalysis Enhanced by Photothermal Light Absorbers. Journal of Physical Chemistry C, 2023, 127, 17723-17731.	3.2	6
4	Achieving maximum overall light enhancement in plasmonic catalysis by combining thermal and non-thermal effects. Nature Catalysis, 2023, 6, 1241-1247.	27.4	22
5	Ultraviolet Resonant Nanogap Antennas with Rhodium Nanocube Dimers for Enhancing Protein Intrinsic Autofluorescence. ACS Nano, 2023, 17, 22418-22429.	15.4	5
6	â€œA Lotâ€™s in a Nameâ€™: Insights from Debates on Thermal and Nonthermal Effects in Plasmonic Catalysis. ACS Applied Energy Materials, 2023, 6, 11762-11772.	5.4	3
7	Dualâ€™Functional NbN Ultrafine Nanocrystals Enabling Kinetically Boosted Lithiumâ€™Sulfur Batteries. Advanced Functional Materials, 2022, 32, .	17.1	68
8	Effect of Humidity on C ₁ , C ₂ Product Selectivity for CO ₂ Reduction in a Hybrid Gas/Liquid Electrochemical Reactor. ACS Applied Energy Materials, 2022, 5, 9309-9314.	5.4	3
9	Preparation of Tungsten Bronze Nanowires. Materials Research Society Symposia Proceedings, 2021, 789, .	0.1	0
10	Metal nitride nanosheets enable highly efficient electrochemical oxidation of ammonia. Nano Energy, 2021, 80, 105528.	16.3	40
11	Untangling Thermal and Nonthermal Effects in Plasmonic Photocatalysis. , 2021, , 191-230.		0
12	High entropy spinel oxide for efficient electrochemical oxidation of ammonia. Nano Research, 2021, 15, 4785-4791.	8.5	45
13	Sub-10-nm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. Nature Electronics, 2021, 4, 653-663.	18.3	81
14	Rh/Al Nanoantenna Photothermal Catalyst for Wide-Spectrum Solar-Driven CO ₂ Methanation with Nearly 100% Selectivity. Nano Letters, 2021, 21, 8824-8830.	8.8	58
15	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. Environmental Science: Nano, 2020, 7, 13-36.	3.7	37
16	Understanding the Origin of Selective Reduction of CO ₂ to CO on Single-Atom Nickel Catalyst. Journal of Physical Chemistry B, 2020, 124, 511-518.	2.9	19
17	Mechanically Robust Gel Polymer Electrolyte for an Ultrastable Sodium Metal Battery. Small, 2020, 16, .	11.6	49
18	A Superior Flameâ€™Resistant and Wideâ€™Temperature Adaptable Yarn Lithiumâ€™Ion Battery with a Highly Conductive Ionogel Electrolyte. ChemElectroChem, 2020, 7, 3998-4002.	3.0	4

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19	Synergy between thermal and nonthermal effects in plasmonic photocatalysis. Nano Research, 2020, 13, 1268-1280.	8.5	49
20	Highly efficient CsPbI ₂ Br ₂ perovskite solar cells with efficiency over 9.8% fabricated using a preheating-assisted spin-coating method. Journal of Materials Chemistry A, 2019, 7, 19008-19016.	9.3	85
21	Diameter dependent doping in horizontally aligned high-density N-doped SWNT arrays. Nano Research, 2019, 12, 1845-1850.	8.5	4
22	Inorganic CsPbI ₂ Br ₂ -Based Perovskite Solar Cells: Fabrication Technique Modification and Efficiency Improvement. Solar Rrl, 2019, 3, .	4.7	66
23	Confirming nonthermal plasmonic effects enhance CO ₂ methanation on Rh/TiO ₂ catalysts. Nano Research, 2019, 12, 1906-1911.	8.5	68
24	Theory of hot electrons: general discussion. Faraday Discussions, 2019, 214, 245-281.	2.7	37
25	One-Step Vapor-Phase Synthesis and Quantum-Confined Exciton in Single-Crystal Platelets of Hybrid Halide Perovskites. Journal of Physical Chemistry Letters, 2019, 10, 2363-2371.	4.6	28
26	Light-Induced Thermal Gradients in Ruthenium Catalysts Significantly Enhance Ammonia Production. Nano Letters, 2019, 19, 1706-1711.	8.8	104
27	Fully Air-Bladed High-Efficiency Perovskite Photovoltaics. Joule, 2019, 3, 402-416.	29.1	124
28	Effects of Light on Catalytic Activities and Lifetime of Plasmonic Au Catalysts in the CO Oxidation Reaction. ACS Catalysis, 2019, 9, 578-586.	12.7	30
29	Strong Capillarity, Chemisorption, and Electrocatalytic Capability of Crisscrossed Nanostraws Enabled Flexible, High-Rate, and Long-Cycling Lithium-Sulfur Batteries. ACS Nano, 2018, 12, 4868-4876.	15.4	225
30	Nanoporous and lyophilic battery separator from regenerated eggshell membrane with effective suppression of dendritic lithium growth. Energy Storage Materials, 2018, 14, 258-266.	18.0	75
31	Synergy of polypyrrole and carbon x-aerogel in lithium-oxygen batteries. Nanoscale, 2018, 10, 3753-3758.	5.1	11
32	Plasmon-Enhanced Catalysis: Distinguishing Thermal and Nonthermal Effects. Nano Letters, 2018, 18, 1714-1723.	8.8	271
33	Interface Engineering of Anchored Ultrathin TiO ₂ /MoS ₂ Heterolayers for Highly-Efficient Electrochemical Hydrogen Production. ACS Applied Materials & Interfaces, 2018, 10, 6084-6089.	8.1	50
34	Flexible devices: from materials, architectures to applications. Journal of Semiconductors, 2018, 39, 011010.	3.7	64
35	Walnut-Like Multicore-Shell MnO Encapsulated Nitrogen-Rich Carbon Nanocapsules as Anode Material for Long-Cycling and Soft-Packed Lithium-Ion Batteries. Advanced Functional Materials, 2018, 28, .	17.1	206
36	Integrated perovskite solar capacitors with high energy conversion efficiency and fast photo-charging rate. Journal of Materials Chemistry A, 2018, 6, 2047-2052.	9.3	94

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37	Atomic Substitution Enabled Synthesis of Vacancy-Rich Two-Dimensional Black TiO ₂ Nanoflakes for High-Performance Rechargeable Magnesium Batteries. ACS Nano, 2018, 12, 12492-12502.	15.4	131
38	Nitrogen-Doped Carbon Nanotube Forests Planted on Cobalt Nanoflowers as Polysulfide Mediator for Ultralow Self-Discharge and High Areal-Capacity Lithium-Sulfur Batteries. Nano Letters, 2018, 18, 7949-7954.	8.8	91
39	Liquid-phase exfoliated ultrathin Bi nanosheets: Uncovering the origins of enhanced electrocatalytic CO ₂ reduction on two-dimensional metal nanostructure. Nano Energy, 2018, 53, 808-816.	16.3	273
40	Ionic liquid-immobilized polymer gel electrolyte with self-healing capability, high ionic conductivity and heat resistance for dendrite-free lithium metal batteries. Nano Energy, 2018, 54, 17-25.	16.3	193
41	Oxygen Vacancy Engineering Promoted Photocatalytic Ammonia Synthesis on Ultrathin Two-Dimensional Bismuth Oxybromide Nanosheets. Nano Letters, 2018, 18, 7372-7377.	8.8	347
42	Highly efficient overall water splitting driven by all-inorganic perovskite solar cells and promoted by bifunctional bimetallic phosphide nanowire arrays. Journal of Materials Chemistry A, 2018, 6, 20076-20082.	9.3	52
43	Carrier Dynamics Engineering for High-Performance Electron-Transport-Layer-free Perovskite Photovoltaics. Chem, 2018, 4, 2405-2417.	16.6	61
44	High-Performance Alkaline Organic Redox Flow Batteries Based on 2-Hydroxy-3-carboxy-1,4-naphthoquinone. ACS Energy Letters, 2018, 3, 2404-2409.	17.5	115
45	Highly Branched VS ₄ Nanodendrites with 1D Atomic Chain Structure as a Promising Cathode Material for Long-Cycling Magnesium Batteries. Advanced Materials, 2018, 30, .	24.7	205
46	An all-inorganic perovskite solar capacitor for efficient and stable spontaneous photocharging. Nano Energy, 2018, 52, 239-245.	16.3	114
47	Three-dimensional spongy framework as superlyophilic, strongly absorbing, and electrocatalytic polysulfide reservoir layer for high-rate and long-cycling lithium-sulfur batteries. Nano Research, 2018, 11, 6436-6446.	8.5	42
48	Ultrahigh rate capability and ultralong cycling stability of sodium-ion batteries enabled by wrinkled black titania nanosheets with abundant oxygen vacancies. Nano Energy, 2018, 53, 91-96.	16.3	48
49	Partial Surface Oxidation of Manganese Oxides as an Effective Treatment To Improve Their Activity in Electrochemical Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2018, 122, 21366-21374.	3.2	16
50	Recycling PM2.5 carbon nanoparticles generated by diesel vehicles for supercapacitors and oxygen reduction reaction. Nano Energy, 2017, 33, 229-237.	16.3	63
51	Bottom-up synthesis of nitrogen-doped porous carbon scaffolds for lithium and sodium storage. Nanoscale, 2017, 9, 1972-1977.	5.1	44
52	Product selectivity in plasmonic photocatalysis for carbon dioxide hydrogenation. Nature Communications, 2017, 8, .	14.1	382
53	The effects of Al substitution and partial dissolution on ultrathin NiFeAl ternary layered double hydroxide nanosheets for oxygen evolution reaction in alkaline solution. Nano Energy, 2017, 35, 350-357.	16.3	249
54	Versatile Electronic Skins for Motion Detection of Joints Enabled by Aligned Few-Walled Carbon Nanotubes in Flexible Polymer Composites. Advanced Functional Materials, 2017, 27, .	17.1	124

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55	Controlled growth and photoconductive properties of hexagonal SnS ₂ nanoflakes with mesa-shaped atomic steps. Nano Research, 2017, 10, 1434-1447.	8.5	50
56	Highly Efficient Retention of Polysulfides in Sea Urchin-Like Carbon Nanotube/Nanopolyhedra Superstructures as Cathode Material for Ultralong-Life Lithium-Sulfur Batteries. Nano Letters, 2017, 17, 437-444.	8.8	229
57	A single wire as all-inclusive fully functional supercapacitor. Nano Energy, 2017, 32, 201-208.	16.3	49
58	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. Nanoscale, 2017, 9, 1237-1243.	5.1	156
59	How sulfidation of ZnO powders enhances visible fluorescence. Journal of Materials Chemistry C, 2017, 5, 10770-10776.	5.1	7
60	A binder-free NiCo ₂ O ₄ nanosheet/3D elastic N-doped hollow carbon nanotube sponge electrode with high volumetric and gravimetric capacitances for asymmetric supercapacitors. Nanoscale, 2017, 9, 16826-16835.	5.1	78
61	Additive engineering for high-performance room-temperature-processed perovskite absorbers with micron-size grains and microsecond-range carrier lifetimes. Energy and Environmental Science, 2017, 10, 2365-2371.	30.6	167
62	Self-Templated Formation of Interlaced Carbon Nanotubes Threaded Hollow Co ₃ S ₄ Nanoboxes for High-Rate and Heat-Resistant Lithium-Sulfur Batteries. Journal of the American Chemical Society, 2017, 139, 12710-12715.	15.7	472
63	All-Inorganic Halide Perovskites for Optoelectronics: Progress and Prospects. Solar Rrl, 2017, 1, .	4.7	183
64	CsPb _{0.9} Sn _{0.1} IBr ₂ Based All-Inorganic Perovskite Solar Cells with Exceptional Efficiency and Stability. Journal of the American Chemical Society, 2017, 139, 14009-14012.	15.7	488
65	Solution synthesis and phase control of inorganic perovskites for high-performance optoelectronic devices. Nanoscale, 2017, 9, 11841-11845.	5.1	79
66	Well-designed Te/SnS ₂ /Ag artificial nanoleaves for enabling and enhancing visible-light driven overall splitting of pure water. Nano Energy, 2017, 39, 539-545.	16.3	67
67	Two-Dimensional Lead(II) Halide-Based Hybrid Perovskites Templated by Acene Alkylamines: Crystal Structures, Optical Properties, and Piezoelectricity. Inorganic Chemistry, 2017, 56, 9291-9302.	4.6	458
68	Porous-Shell Vanadium Nitride Nanobubbles with Ultrahigh Areal Sulfur Loading for High-Capacity and Long-Life Lithium-Sulfur Batteries. Nano Letters, 2017, 17, 7839-7846.	8.8	214
69	High-Performance Li-Se Batteries Enabled by Selenium Storage in Bottom-Up Synthesized Nitrogen-Doped Carbon Scaffolds. ACS Applied Materials & Interfaces, 2017, 9, 25232-25238.	8.1	49
70	Cerium Oxide Nanocrystal Embedded Bimodal Micromesoporous Nitrogen-Rich Carbon Nanospheres as Effective Sulfur Host for Lithium-Sulfur Batteries. ACS Nano, 2017, 11, 7274-7283.	15.4	225
71	MoS ₂ -Based All-Purpose Fibrous Electrode and Self-Powering Energy Fiber for Efficient Energy Harvesting and Storage. Advanced Energy Materials, 2017, 7, .	22.7	151
72	Hierarchical NiCo ₂ O ₄ nanosheets/nitrogen doped graphene/carbon nanotube film with ultrahigh capacitance and long cycle stability as a flexible binder-free electrode for supercapacitors. Journal of Materials Chemistry A, 2017, 5, 689-698.	9.3	135

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73	Phytotoxicity of soluble graphitic nanofibers to model plant species. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 2941-2947.	3.3	6
74	Strong, Machinable Carbon Aerogels for High Performance Supercapacitors. <i>Advanced Functional Materials</i> , 2016, 26, 4976-4983.	17.1	86
75	Emerging non-lithium ion batteries. <i>Energy Storage Materials</i> , 2016, 4, 103-129.	18.0	275
76	Self-assembled ultrathin NiCo ₂ S ₄ nanoflakes grown on Ni foam as high-performance flexible electrodes for hydrogen evolution reaction in alkaline solution. <i>Nano Energy</i> , 2016, 24, 139-147.	16.3	286
77	Pitaya-like microspheres derived from Prussian blue analogues as ultralong-life anodes for lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15041-15048.	9.3	38
78	Hierarchical Ternary Carbide Nanoparticle/Carbon Nanotube-Inserted N-Doped Carbon Concave-Polyhedrons for Efficient Lithium and Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26834-26841.	8.1	56
79	Hierarchical porous nitrogen-rich carbon nanospheres with high and durable capabilities for lithium and sodium storage. <i>Nanoscale</i> , 2016, 8, 17911-17918.	5.1	59
80	Effect of interlayer spacing on sodium ion insertion in nanostructured titanium hydrogenophosphates/carbon nanotube composites. <i>RSC Advances</i> , 2016, 6, 60015-60021.	4.5	3
81	One-step fabrication of large-area ultrathin MoS ₂ nanofilms with high catalytic activity for photovoltaic devices. <i>Nanoscale</i> , 2016, 8, 16017-16025.	5.1	51
82	Effect of Direct Contact on the Phytotoxicity of Silver Nanomaterials. <i>Environmental Science & Technology</i> , 2016, 50, 10370-10376.	11.3	26
83	A remotely driven and controlled micro-gripper fabricated from light-induced deformation smart material. <i>Smart Materials and Structures</i> , 2016, 25, 095009.	3.6	26
84	All-Inorganic Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 15829-15832.	15.7	956
85	Subatomic deformation driven by vertical piezoelectricity from CdS ultrathin films. <i>Science Advances</i> , 2016, 2, .	11.3	71
86	In Situ Thermal Synthesis of Inlaid Ultrathin MoS ₂ /Graphene Nanosheets as Electrocatalysts for the Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2016, 28, 5733-5742.	6.9	166
87	Selective synthesis of large diameter, highly conductive and high density single-walled carbon nanotubes by a thiophene-assisted chemical vapor deposition method on transparent substrates. <i>Nanoscale</i> , 2016, 8, 14156-14162.	5.1	15
88	Silver nanoparticle toxicity is related to coating materials and disruption of sodium concentration regulation. <i>Nanotoxicology</i> , 2016, 10, 1306-1317.	3.0	40
89	Aligned Single-Walled Carbon Nanotube Arrays from Rhodium Catalysts with Unexpected Diameter Uniformity Independent of the Catalyst Size and Growth Temperature. <i>Chemistry of Materials</i> , 2016, 28, 870-875.	6.9	22
90	Li ₃ V ₂ (PO ₄) ₃ encapsulated flexible free-standing nanofabric cathodes for fast charging and long life-cycle lithium-ion batteries. <i>Nanoscale</i> , 2016, 8, 7408-7415.	5.1	54

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91	Multi-yolk-shell copper oxide@carbon octahedra as high-stability anodes for lithium-ion batteries. Nano Energy, 2016, 20, 305-314.	16.3	108
92	Size-tunable rhodium nanostructures for wavelength-tunable ultraviolet plasmonics. Nanoscale Horizons, 2016, 1, 75-80.	6.6	61
93	Miniaturized Swimming Soft Robot with Complex Movement Actuated and Controlled by Remote Light Signals. Scientific Reports, 2015, 5, .	3.7	185
94	Nanostructured Materials for a Sustainable Future. Small, 2015, 11, 3204-3205.	11.6	1
95	Rhodium Nanoparticles for Ultraviolet Plasmonics. Nano Letters, 2015, 15, 1095-1100.	8.8	118
96	Conductive Graphene Fibers for Wire-Shaped Supercapacitors Strengthened by Unfunctionalized Few-Walled Carbon Nanotubes. ACS Nano, 2015, 9, 1352-1359.	15.4	189
97	Effects of morphology and chemical doping on electrochemical properties of metal hydroxides in pseudocapacitors. Nanoscale, 2015, 7, 3181-3188.	5.1	49
98	Making a commercial carbon fiber cloth having comparable capacitances to carbon nanotubes and graphene in supercapacitors through a "top-down" approach. Nanoscale, 2015, 7, 3285-3291.	5.1	66
99	Graphene oxide as a dual-function conductive binder for PEEK-derived microporous carbons in high performance supercapacitors. 2D Materials, 2015, 2, 024006.	4.2	3
100	Reducing Environmental Toxicity of Silver Nanoparticles through Shape Control. Environmental Science & Technology, 2015, 49, 10093-10098.	11.3	87
101	Hydrophilic Hierarchical Nitrogen-Doped Carbon Nanocages for Ultrahigh Supercapacitive Performance. Advanced Materials, 2015, 27, 3541-3545.	24.7	710
102	Flexible Carbon Nanotube-Graphene/Sulfur Composite Film: Free-Standing Cathode for High-Performance Lithium/Sulfur Batteries. Journal of Physical Chemistry C, 2015, 119, 10288-10294.	3.2	111
103	Engineering hollow mesoporous silica nanocontainers with molecular switches for continuous self-healing anticorrosion coating. Journal of Materials Chemistry A, 2015, 3, 9510-9516.	9.3	100
104	Graphene based energy devices. Nanoscale, 2015, , .	5.1	32
105	Highly Stretchable Conductive Fibers from Few-Walled Carbon Nanotubes Coated on Poly(m-phenylene isophthalamide) Polymer Core/Shell Structures. ACS Nano, 2015, 9, 10252-10257.	15.4	58
106	Gate-Free Electrical Breakdown of Metallic Pathways in Single-Walled Carbon Nanotube Crossbar Networks. Nano Letters, 2015, 15, 6058-6065.	8.8	15
107	Graphoepitaxial effect in the guided growth of SWNT arrays on quartz. Journal of Materials Chemistry C, 2015, 3, 9678-9683.	5.1	5
108	Effect of Multi-Walled Carbon Nanotubes and Conducting Polymer on Capacitance of Mesoporous Carbon Electrode. Journal of Nanoscience and Nanotechnology, 2014, 14, 7015-7021.	0.6	4

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109	Scalable Fabrication of Ambipolar Transistors and Radio-Frequency Circuits Using Aligned Carbon Nanotube Arrays. <i>Advanced Materials</i> , 2014, 26, 645-652.	24.7	30
110	Influence of the Nickel Oxide Nanostructure Morphology on the Effectiveness of Reduced Graphene Oxide Coating in Supercapacitor Electrodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2281-2286.	3.2	66
111	Novel synthetic methodology for controlling the orientation of zinc oxide nanowires grown on silicon oxide substrates. <i>Nanoscale</i> , 2014, 6, 3861.	5.1	7
112	Growth of High-Density-Aligned and Semiconducting-Enriched Single-Walled Carbon Nanotubes: Decoupling the Conflict between Density and Selectivity. <i>ACS Nano</i> , 2014, 8, 554-562.	15.4	68
113	Importance of Diameter Control on Selective Synthesis of Semiconducting Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2014, 8, 8564-8572.	15.4	45
114	Aging of fullerene C60 nanoparticle suspensions in the presence of microbes. <i>Water Research</i> , 2014, 65, 282-289.	12.4	24
115	Water Adsorption in Nanoporous Carbon Characterized by in Situ NMR: Measurements of Pore Size and Pore Size Distribution. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8474-8480.	3.2	31
116	Ultrafast high-capacity NiZn battery with NiAlCo-layered double hydroxide. <i>Energy and Environmental Science</i> , 2014, 7, 2025.	30.6	275
117	Understanding the discrepancy between the quality and yield in the synthesis of carbon nanotubes. <i>Nano Research</i> , 2014, 8, 296-302.	8.5	9
118	Stretchable and High-Performance Supercapacitors with Crumpled Graphene Papers. <i>Scientific Reports</i> , 2014, 4, .	3.7	214
119	Improving the performance of cobalt-nickel hydroxide-based self-supporting electrodes for supercapacitors using accumulative approaches. <i>Energy and Environmental Science</i> , 2013, 6, 3314.	30.6	232
120	High-throughput optical imaging and spectroscopy of individual carbon nanotubes in devices. <i>Nature Nanotechnology</i> , 2013, 8, 917-922.	23.9	95
121	Highly Conductive Carbon Nanotube Matrix Accelerates Developmental Chloride Extrusion in Central Nervous System Neurons by Increased Expression of Chloride Transporter KCC2. <i>Small</i> , 2013, 9, 1066-1075.	11.6	20
122	Flexible asymmetric supercapacitors with high energy and high power density in aqueous electrolytes. <i>Nanoscale</i> , 2013, 5, 1067-1073.	5.1	190
123	Carbon Nanomaterials for Flexible Energy Storage. <i>Materials Research Letters</i> , 2013, 1, 175-192.	4.5	42
124	Silver nanoparticle-alginate composite beads for point-of-use drinking water disinfection. <i>Water Research</i> , 2013, 47, 3959-3965.	12.4	153
125	Solution-Processed, Antimony-Doped Tin Oxide Colloid Films Enable High-Performance TiO ₂ Photoanodes for Water Splitting. <i>Nano Letters</i> , 2013, 13, 1481-1488.	8.8	78
126	Antimicrobial nanotechnology: its potential for the effective management of microbial drug resistance and implications for research needs in microbial nanotoxicology. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 93-102.	3.2	102

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127	Significantly Improved Long-Cycle Stability in High-Rate Li ⁺ S Batteries Enabled by Coaxial Graphene Wrapping over Sulfur-Coated Carbon Nanofibers. <i>Nano Letters</i> , 2013, 13, 2485-2489.	8.8	314
128	Highly Efficient Oxygen Reduction Electrocatalysts based on Winged Carbon Nanotubes. <i>Scientific Reports</i> , 2013, 3, .	3.7	46
129	The dependence of ZnO photoluminescence efficiency on excitation conditions and defect densities. <i>Applied Physics Letters</i> , 2013, 103, .	3.2	27
130	In vitro cytotoxicity of silver nanoparticles in primary rat hepatic stellate cells. <i>Molecular Medicine Reports</i> , 2013, 8, 1365-1372.	2.5	20
131	CMOS-based carbon nanotube pass-transistor logic integrated circuits. <i>Nature Communications</i> , 2012, 3, .	14.1	153
132	Direct Optical Imaging of Graphene In Vitro by Nonlinear Femtosecond Laser Spectral Reshaping. <i>Nano Letters</i> , 2012, 12, 5936-5940.	8.8	28
133	Carbon nanotube arrays based high-performance infrared photodetector [Invited]. <i>Optical Materials Express</i> , 2012, 2, 839.	2.9	94
134	Polymeric Coatings on Silver Nanoparticles Hinder Autoaggregation but Enhance Attachment to Uncoated Surfaces. <i>Langmuir</i> , 2012, 28, 4178-4186.	3.8	111
135	Carbon Nanotube Field-Effect Transistors for Use as Pass Transistors in Integrated Logic Gates and Full Subtractor Circuits. <i>ACS Nano</i> , 2012, 6, 4013-4019.	15.4	23
136	General Rules for Selective Growth of Enriched Semiconducting Single Walled Carbon Nanotubes with Water Vapor as in Situ Etchant. <i>Journal of the American Chemical Society</i> , 2012, 134, 14019-14026.	15.7	108
137	Detection, Characterization, and Abundance of Engineered Nanoparticles in Complex Waters by Hyperspectral Imagery with Enhanced Darkfield Microscopy. <i>Environmental Science & Technology</i> , 2012, 46, 10081-10088.	11.3	103
138	Uptake of silver nanoparticles and toxicity to early life stages of Japanese medaka (<i>Oryzias latipes</i>): Effect of coating materials. <i>Aquatic Toxicology</i> , 2012, 120-121, 59-66.	4.4	107
139	Monolithic co-aerogels of carbon/titanium dioxide as three dimensional nanostructured electrodes for energy storage. <i>Journal of Power Sources</i> , 2012, 218, 140-147.	8.0	20
140	Mechanism of Silver Nanoparticle Toxicity Is Dependent on Dissolved Silver and Surface Coating in <i>Caenorhabditis elegans</i> . <i>Environmental Science & Technology</i> , 2012, 46, 1119-1127.	11.3	522
141	Size-Controlled Dissolution of Organic-Coated Silver Nanoparticles. <i>Environmental Science & Technology</i> , 2012, 46, 752-759.	11.3	364
142	Synergistic Effects from Graphene and Carbon Nanotubes Enable Flexible and Robust Electrodes for High-Performance Supercapacitors. <i>Nano Letters</i> , 2012, 12, 4206-4211.	8.8	615
143	Carbon nanotube based ultra-low voltage integrated circuits: Scaling down to 0.4 V. <i>Applied Physics Letters</i> , 2012, 100, 263116.	3.2	62
144	Electrophoretically induced aqueous flow through single-walled carbon nanotube membranes. <i>Nature Nanotechnology</i> , 2012, 7, 133-139.	23.9	117

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145	Recent Advances in Methods of Forming Carbon Nanotubes. MRS Bulletin, 2011, 29, 244-250.	4.4	38
146	Synthesis of High-Density, Large-Diameter, and Aligned Single-Walled Carbon Nanotubes by Multiple-Cycle Growth Methods. ACS Nano, 2011, 5, 3849-3857.	15.4	75
147	Deposition of Silver Nanoparticles in Geochemically Heterogeneous Porous Media: Predicting Affinity from Surface Composition Analysis. Environmental Science & Technology, 2011, 45, 5209-5215.	11.3	85
148	More than the Ions: The Effects of Silver Nanoparticles on <i>Lolium multiflorum</i> . Environmental Science & Technology, 2011, 45, 2360-2367.	11.3	495
149	Photoluminescence from Inner Walls in Double-Walled Carbon Nanotubes: Some Do, Some Do Not. Nano Letters, 2011, 11, 4405-4410.	8.8	21
150	Hydrophobic Interactions Increase Attachment of Gum Arabic- and PVP-Coated Ag Nanoparticles to Hydrophobic Surfaces. Environmental Science & Technology, 2011, 45, 5988-5995.	11.3	134
151	Toxicity Reduction of Polymer-Stabilized Silver Nanoparticles by Sunlight. Journal of Physical Chemistry C, 2011, 115, 4425-4432.	3.2	188
152	Meditations on the Ubiquity and Mutability of Nano-Sized Materials in the Environment. ACS Nano, 2011, 5, 8466-8470.	15.4	70
153	Sulfur-doped zinc oxide (ZnO) Nanostars: Synthesis and simulation of growth mechanism. Nano Research, 2011, 5, 20-26.	8.5	42
154	Aligned graphene nanoribbons and crossbars from unzipped carbon nanotubes. Nano Research, 2010, 3, 387-394.	8.5	160
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