

Xiaodong Chen

List of Publications by Year in descending order

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Version: 2024-02-01

409
papers

45,197
citations

1046

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2385

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449
all docs

449
docs citations

449
times ranked

49005
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Layer MoS ₂ Phototransistors. ACS Nano, 2012, 6, 74-80.	14.6	3,103
2	Imparting functionality to a metal-organic framework material by controlled nanoparticle encapsulation. Nature Chemistry, 2012, 4, 310-316.	13.6	1,857
3	Heterogeneous visible light photocatalysis for selective organic transformations. Chemical Society Reviews, 2014, 43, 473-486.	38.1	1,286
4	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	14.6	976
5	Rational material design for ultrafast rechargeable lithium-ion batteries. Chemical Society Reviews, 2015, 44, 5926-5940.	38.1	857
6	High-Performance Photothermal Conversion of Narrow-Bandgap TiO ₂ Nanoparticles. Advanced Materials, 2017, 29, 1603730.	21.0	766
7	A Leavening Strategy to Prepare Reduced Graphene Oxide Foams. Advanced Materials, 2012, 24, 4144-4150.	21.0	765
8	Highly Stretchable, Elastic, and Ionic Conductive Hydrogel for Artificial Soft Electronics. Advanced Functional Materials, 2019, 29, 1806220.	14.9	602
9	Nature-Inspired Structural Materials for Flexible Electronic Devices. Chemical Reviews, 2017, 117, 12893-12941.	47.7	578
10	Microstructured Graphene Arrays for Highly Sensitive Flexible Tactile Sensors. Small, 2014, 10, 3625-3631.	10.0	540
11	All-Solid-State Flexible Ultrathin Micro-Supercapacitors Based on Graphene. Advanced Materials, 2013, 25, 4035-4042.	21.0	503
12	Highly Stretchable, Integrated Supercapacitors Based on Single-Walled Carbon Nanotube Films with Continuous Reticulate Architecture. Advanced Materials, 2013, 25, 1058-1064.	21.0	496
13	Silk Fibroin for Flexible Electronic Devices. Advanced Materials, 2016, 28, 4250-4265.	21.0	466
14	Quadruple H-Bonding Cross-Linked Supramolecular Polymeric Materials as Substrates for Stretchable, Antitearing, and Self-Healable Thin Film Electrodes. Journal of the American Chemical Society, 2018, 140, 5280-5289.	13.7	464
15	A wireless body area sensor network based on stretchable passive tags. Nature Electronics, 2019, 2, 361-368.	26.0	421
16	Nanostructured Graphene Composite Papers for Highly Flexible and Foldable Supercapacitors. Advanced Materials, 2014, 26, 4855-4862.	21.0	398
17	Mechanical Force-Driven Growth of Elongated Bending TiO ₂ -based Nanotubular Materials for Ultrafast Rechargeable Lithium Ion Batteries. Advanced Materials, 2014, 26, 6111-6118.	21.0	386
18	Assembly of Graphene Sheets into Hierarchical Structures for High-Performance Energy Storage. ACS Nano, 2011, 5, 3831-3838.	14.6	382

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19	Flexible and Stretchable Devices. <i>Advanced Materials</i> , 2016, 28, 4177-4179.	21.0	378
20	Design of Architectures and Materials in In-plane Micro-supercapacitors: Current Status and Future Challenges. <i>Advanced Materials</i> , 2017, 29, 1602802.	21.0	373
21	3D Printed Photoresponsive Devices Based on Shape Memory Composites. <i>Advanced Materials</i> , 2017, 29, 1701627.	21.0	370
22	Materials and structural designs of stretchable conductors. <i>Chemical Society Reviews</i> , 2019, 48, 2946-2966.	38.1	367
23	Facile synthesis of metal oxide/reduced graphene oxide hybrids with high lithium storage capacity and stable cyclability. <i>Nanoscale</i> , 2011, 3, 1084-1089.	5.6	352
24	A Mechanically and Electrically Self-Healing Supercapacitor. <i>Advanced Materials</i> , 2014, 26, 3638-3643.	21.0	351
25	Cooperative photoredox catalysis. <i>Chemical Society Reviews</i> , 2016, 45, 3026-3038.	38.1	350
26	Auxetic Mechanical Metamaterials to Enhance Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018, 30, e1706589.	21.0	349
27	A "skeleton/skin" strategy for preparing ultrathin free-standing single-walled carbon nanotube/polyaniline films for high performance supercapacitor electrodes. <i>Energy and Environmental Science</i> , 2012, 5, 8726.	30.8	312
28	An Artificial Sensory Neuron with Tactile Perceptual Learning. <i>Advanced Materials</i> , 2018, 30, e1801291.	21.0	309
29	Thickness Gradient Films for High Gauge Factor Stretchable Strain Sensors. <i>Advanced Materials</i> , 2015, 27, 6230-6237.	21.0	300
30	Gesture recognition using a bioinspired learning architecture that integrates visual data with somatosensory data from stretchable sensors. <i>Nature Electronics</i> , 2020, 3, 563-570.	26.0	298
31	Graphene/nanosized silicon composites for lithium battery anodes with improved cycling stability. <i>Carbon</i> , 2011, 49, 1787-1796.	10.3	275
32	Efficient Ag@AgCl Cubic Cage Photocatalysts Profit from Ultrafast Plasmon-Induced Electron Transfer Processes. <i>Advanced Functional Materials</i> , 2013, 23, 2932-2940.	14.9	270
33	Editable Supercapacitors with Customizable Stretchability Based on Mechanically Strengthened Ultralong MnO ₂ Nanowire Composite. <i>Advanced Materials</i> , 2018, 30, 1704531.	21.0	270
34	Suspended Wavy Graphene Microribbons for Highly Stretchable Microsupercapacitors. <i>Advanced Materials</i> , 2015, 27, 5559-5566.	21.0	268
35	Graphene-based wearable piezoresistive physical sensors. <i>Materials Today</i> , 2020, 36, 158-179.	14.2	262
36	Colorimetric Detection of Mercury Ions Based on Plasmonic Nanoparticles. <i>Small</i> , 2013, 9, 1467-1481.	10.0	255

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37	Decoupling of mechanical properties and ionic conductivity in supramolecular lithium ion conductors. <i>Nature Communications</i> , 2019, 10, 5384.	12.8	249
38	Enhanced Cathodic Oxygen Reduction and Power Production of Microbial Fuel Cell Based on Noble-metal-free Electrocatalyst Derived from Metal-Organic Frameworks. <i>Advanced Energy Materials</i> , 2016, 6, 1501497.	19.5	241
39	A Photoresponsive Rutile TiO ₂ Heterojunction with Enhanced Electron-Hole Separation for High-Performance Hydrogen Evolution. <i>Advanced Materials</i> , 2019, 31, e1806596.	21.0	240
40	Flexible Transparent Electronic Gas Sensors. <i>Small</i> , 2016, 12, 3748-3756.	10.0	234
41	Plasticizing Silk Protein for On-skin Stretchable Electrodes. <i>Advanced Materials</i> , 2018, 30, e1800129.	21.0	230
42	Flexible Transparent Films Based on Nanocomposite Networks of Polyaniline and Carbon Nanotubes for High-Performance Gas Sensing. <i>Small</i> , 2015, 11, 5409-5415.	10.0	225
43	Visible-light-induced Photoredox Catalysis of Dye-sensitized Titanium Dioxide: Selective Aerobic Oxidation of Organic Sulfides. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4697-4700.	13.8	222
44	Sericin for Resistance Switching Device with Multilevel Nonvolatile Memory. <i>Advanced Materials</i> , 2013, 25, 5498-5503.	21.0	219
45	Highly Compressible and All-solid-state Supercapacitors Based on Nanostructured Composite Sponge. <i>Advanced Materials</i> , 2015, 27, 6002-6008.	21.0	217
46	Wet-chemical Processing of Phosphorus Composite Nanosheets for High-rate and High-capacity Lithium-ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1502409.	19.5	211
47	Renewable Juglone-based High-performance Sodium-ion Batteries. <i>Advanced Materials</i> , 2015, 27, 2348-2354.	21.0	208
48	Surface Strain Redistribution on Structured Microfibers to Enhance Sensitivity of Fiber-shaped Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018, 30, 1704229.	21.0	208
49	Langmuir-Blodgett Patterning: A Bottom-up Way To Build Mesostructures over Large Areas. <i>Accounts of Chemical Research</i> , 2007, 40, 393-401.	15.6	207
50	Surface diffusion-limited lifetime of silver and copper nanofilaments in resistive switching devices. <i>Nature Communications</i> , 2019, 10, 81.	12.8	204
51	Artificial Skin Perception. <i>Advanced Materials</i> , 2021, 33, e2003014.	21.0	203
52	Engineering 2D Architectures toward High-performance Micro-supercapacitors. <i>Advanced Materials</i> , 2019, 31, e1802793.	21.0	202
53	Soft Thermal Sensor with Mechanical Adaptability. <i>Advanced Materials</i> , 2016, 28, 9175-9181.	21.0	201
54	Artificial Sensory Memory. <i>Advanced Materials</i> , 2020, 32, e1902434.	21.0	200

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55	Orthogonally modulated molecular transport junctions for resettable electronic logic gates. <i>Nature Communications</i> , 2014, 5, 3023.	12.8	198
56	Broadband Extrinsic Self-Trapped Exciton Emission in Sn-Doped 2D Lead-Halide Perovskites. <i>Advanced Materials</i> , 2019, 31, e1806385.	21.0	198
57	Supramolecular hydrogels for antimicrobial therapy. <i>Chemical Society Reviews</i> , 2018, 47, 6917-6929.	38.1	196
58	Nanoparticles Strengthen Intracellular Tension and Retard Cellular Migration. <i>Nano Letters</i> , 2014, 14, 83-88.	9.1	191
59	Ambient Fabrication of Large-Area Graphene Films via a Synchronous Reduction and Assembly Strategy. <i>Advanced Materials</i> , 2013, 25, 2957-2962.	21.0	190
60	High-Performance and Tailorable Pressure Sensor Based on Ultrathin Conductive Polymer Film. <i>Small</i> , 2014, 10, 1466-1472.	10.0	189
61	Gram-Positive Antimicrobial Activity of Amino Acid-Based Hydrogels. <i>Advanced Materials</i> , 2015, 27, 648-654.	21.0	188
62	Stretchable Organic Semiconductor Devices. <i>Advanced Materials</i> , 2016, 28, 9243-9265.	21.0	188
63	Conductive Inks Based on a Lithium Titanate Nanotube Gel for High-Rate Lithium-Ion Batteries with Customized Configuration. <i>Advanced Materials</i> , 2016, 28, 1567-1576.	21.0	178
64	Highly Efficient Phosphate Scavenger Based on Well-Dispersed La(OH) ₃ Nanorods in Polyacrylonitrile Nanofibers for Nutrient-Starvation Antibacteria. <i>ACS Nano</i> , 2015, 9, 9292-9302.	14.6	177
65	Calcineable Polymer Membrane with Revivability for Efficient Oily-Water Remediation. <i>Advanced Materials</i> , 2018, 30, e1801870.	21.0	176
66	Configurable Resistive Switching between Memory and Threshold Characteristics for Protein-Based Devices. <i>Advanced Functional Materials</i> , 2015, 25, 3825-3831.	14.9	175
67	Skin-Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture. <i>Advanced Materials</i> , 2016, 28, 1559-1566.	21.0	173
68	Unravelling the Correlation between the Aspect Ratio of Nanotubular Structures and Their Electrochemical Performance To Achieve High-Rate and Long-Life Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13488-13492.	13.8	172
69	Engineering Interfacial Photo-Induced Charge Transfer Based on Nanobamboo Array Architecture for Efficient Solar-to-Chemical Energy Conversion. <i>Advanced Materials</i> , 2015, 27, 2207-2214.	21.0	172
70	High-Adhesion Stretchable Electrodes Based on Nanopile Interlocking. <i>Advanced Materials</i> , 2017, 29, 1603382.	21.0	168
71	An artificial sensory neuron with visual-haptic fusion. <i>Nature Communications</i> , 2020, 11, 4602.	12.8	166
72	Beam pen lithography. <i>Nature Nanotechnology</i> , 2010, 5, 637-640.	31.5	165

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73	A Universal Strategy to Prepare Functional Porous Graphene Hybrid Architectures. <i>Advanced Materials</i> , 2014, 26, 3681-3687.	21.0	164
74	High-performance piezoelectric nanogenerators composed of formamidinium lead halide perovskite nanoparticles and poly(vinylidene fluoride). <i>Nano Energy</i> , 2017, 37, 126-135.	16.0	164
75	Flexible Piezoelectric Nanocomposite Generators Based on Formamidinium Lead Halide Perovskite Nanoparticles. <i>Advanced Functional Materials</i> , 2016, 26, 7708-7716.	14.9	163
76	Assembly of Graphene Sheets into 3D Macroscopic Structures. <i>Small</i> , 2012, 8, 2458-2463.	10.0	158
77	Honeycombâ€Lanternâ€Inspired 3D Stretchable Supercapacitors with Enhanced Specific Areal Capacitance. <i>Advanced Materials</i> , 2018, 30, e1805468.	21.0	152
78	Healable, Transparent, Roomâ€Temperature Electronic Sensors Based on Carbon Nanotube Networkâ€Coated Polyelectrolyte Multilayers. <i>Small</i> , 2015, 11, 5807-5813.	10.0	151
79	Programmable Photoâ€Electrochemical Hydrogen Evolution Based on Multiâ€Segmented CdSâ€Au Nanorod Arrays. <i>Advanced Materials</i> , 2014, 26, 3506-3512.	21.0	150
80	Fluoroethylene Carbonate Enabling a Robust LiFâ€Rich Solid Electrolyte Interphase to Enhance the Stability of the MoS ₂ Anode for Lithiumâ€Ion Storage. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3656-3660.	13.8	149
81	Physically Transient Resistive Switching Memory Based on Silk Protein. <i>Small</i> , 2016, 12, 2715-2719.	10.0	148
82	Visibleâ€Lightâ€Induced Photoredox Catalysis of Dyeâ€Sensitized Titanium Dioxide: Selective Aerobic Oxidation of Organic Sulfides. <i>Angewandte Chemie</i> , 2016, 128, 4775-4778.	2.0	147
83	Waterâ€Soluble Sericin Protein Enabling Stable Solidâ€Electrolyte Interphase for Fast Charging High Voltage Battery Electrode. <i>Advanced Materials</i> , 2017, 29, 1701828.	21.0	147
84	3D Macroporous Nitrogenâ€Enriched Graphitic Carbon Scaffold for Efficient Bioelectricity Generation in Microbial Fuel Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1601364.	19.5	146
85	Waterâ€Resistant Conformal Hybrid Electrodes for Aquatic Endurable Electrocardiographic Monitoring. <i>Advanced Materials</i> , 2020, 32, e2001496.	21.0	146
86	Highly Stretchable Gold Nanobelts with Sinusoidal Structures for Recording Electrocardiograms. <i>Advanced Materials</i> , 2015, 27, 3145-3151.	21.0	145
87	Highly Stretchable, Compliant, Polymeric Microelectrode Arrays for In Vivo Electrophysiological Interfacing. <i>Advanced Materials</i> , 2017, 29, 1702800.	21.0	144
88	Polymeric Membranes with Selective Solutionâ€Diffusion for Intercepting Volatile Organic Compounds during Solarâ€Driven Water Remediation. <i>Advanced Materials</i> , 2020, 32, e2004401.	21.0	142
89	Resistive Switching Memory Devices Based on Proteins. <i>Advanced Materials</i> , 2015, 27, 7670-7676.	21.0	140
90	Vanadium pentoxide cathode materials for high-performance lithium-ion batteries enabled by a hierarchical nanoflower structure via an electrochemical process. <i>Journal of Materials Chemistry A</i> , 2013, 1, 82-88.	10.3	138

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91	High-frequency and intrinsically stretchable polymer diodes. <i>Nature</i> , 2021, 600, 246-252.	27.8	138
92	A Synergistic Capture Strategy for Enhanced Detection and Elimination of Bacteria. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5837-5841.	13.8	136
93	Dielectric Polarization in Inverse Spinel-Structured $\text{Mg}_{2}\text{TiO}_{4}$ Coating to Suppress Oxygen Evolution of Li-Rich Cathode Materials. <i>Advanced Materials</i> , 2020, 32, e2000496.	21.0	134
94	Scalable combustion synthesis of graphene-welded activated carbon for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2021, 414, 128781.	12.7	134
95	Hierarchical graphene-polyaniline nanocomposite films for high-performance flexible electronic gas sensors. <i>Nanoscale</i> , 2016, 8, 12073-12080.	5.6	132
96	Portable Food-Freshness Prediction Platform Based on Colorimetric Barcode Combinatorics and Deep Convolutional Neural Networks. <i>Advanced Materials</i> , 2020, 32, e2004805.	21.0	131
97	Gemini Surfactant/DNA Complex Monolayers at the Air-Water Interface: Effect of Surfactant Structure on the Assembly, Stability, and Topography of Monolayers. <i>Langmuir</i> , 2002, 18, 6222-6228.	3.5	130
98	Making Electrodes Stretchable. <i>Small Methods</i> , 2017, 1, 1600029.	8.6	128
99	Enhanced photocatalytic degradation of phenol and photogenerated charges transfer property over BiOI-loaded ZnO composites. <i>Journal of Colloid and Interface Science</i> , 2017, 494, 130-138.	9.4	127
100	3D Printing of Flexible Electronic Devices. <i>Small Methods</i> , 2018, 2, 1700259.	8.6	126
101	An Artificial Somatic Reflex Arc. <i>Advanced Materials</i> , 2020, 32, e1905399.	21.0	126
102	Biophysical Responses upon the Interaction of Nanomaterials with Cellular Interfaces. <i>Accounts of Chemical Research</i> , 2013, 46, 782-791.	15.6	125
103	Lowering Charge Transfer Barrier of $\text{LiMn}_{2}\text{O}_{4}$ via Nickel Surface Doping To Enhance Li^{+} Intercalation Kinetics at Subzero Temperatures. <i>Journal of the American Chemical Society</i> , 2019, 141, 14038-14042.	13.7	125
104	Three-Dimensional CdS-Titanate Composite Nanomaterials for Enhanced Visible-Light-Driven Hydrogen Evolution. <i>Small</i> , 2013, 9, 996-1002.	10.0	124
105	Custom-Made Electrochemical Energy Storage Devices. <i>ACS Energy Letters</i> , 2019, 4, 606-614.	17.4	123
106	Understanding the Role of Nanostructures for Efficient Hydrogen Generation on Immobilized Photocatalysts. <i>Advanced Energy Materials</i> , 2013, 3, 1368-1380.	19.5	122
107	Materials chemistry in flexible electronics. <i>Chemical Society Reviews</i> , 2019, 48, 1431-1433.	38.1	122
108	A colorimetric logic gate based on free gold nanoparticles and the coordination strategy between melamine and mercury ions. <i>Chemical Communications</i> , 2013, 49, 4196-4198.	4.1	121

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109	Mechanically Interlocked Hydrogel-Elastomer Hybrids for On-Skin Electronics. <i>Advanced Functional Materials</i> , 2020, 30, 1909540.	14.9	120
110	Programmable Nano-Bio Interfaces for Functional Biointegrated Devices. <i>Advanced Materials</i> , 2017, 29, 1605529.	21.0	118
111	Healable Transparent Electronic Devices. <i>Advanced Functional Materials</i> , 2017, 27, 1606339.	14.9	118
112	Functional Free-Standing Graphene Honeycomb Films. <i>Advanced Functional Materials</i> , 2013, 23, 2972-2978.	14.9	116
113	Organic Dots with Aggregation-Induced Emission (AIE Dots) Characteristics for Dual-Color Cell Tracing. <i>Chemistry of Materials</i> , 2013, 25, 4181-4187.	6.7	115
114	Ambient dissolution-recrystallization towards large-scale preparation of V ₂ O ₅ nanobelts for high-energy battery applications. <i>Nano Energy</i> , 2016, 22, 583-593.	16.0	112
115	Nanostructured TiO ₂ -Based Anode Materials for High-Performance Rechargeable Lithium-Ion Batteries. <i>ChemNanoMat</i> , 2016, 2, 764-775.	2.8	111
116	Adhesive Biocomposite Electrodes on Sweaty Skin for Long-Term Continuous Electrophysiological Monitoring. , 2020, 2, 478-484.		107
117	Chemical Fabrication of Heterometallic Nanogaps for Molecular Transport Junctions. <i>Nano Letters</i> , 2009, 9, 3974-3979.	9.1	105
118	On-Wire Lithography-Generated Molecule-Based Transport Junctions: A New Testbed for Molecular Electronics. <i>Journal of the American Chemical Society</i> , 2008, 130, 8166-8168.	13.7	104
119	Porous Graphene Materials for Water Remediation. <i>Small</i> , 2014, 10, 3434-3441.	10.0	104
120	A flexible transparent colorimetric wrist strap sensor. <i>Nanoscale</i> , 2017, 9, 869-874.	5.6	104
121	A silk-based sealant with tough adhesion for instant hemostasis of bleeding tissues. <i>Nanoscale Horizons</i> , 2019, 4, 1333-1341.	8.0	104
122	Spectroscopic Tracking of Molecular Transport Junctions Generated by Using Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5178-5181.	13.8	102
123	Urine for Plasmonic Nanoparticle-Based Colorimetric Detection of Mercury Ion. <i>Small</i> , 2013, 9, 4104-4111.	10.0	102
124	Plasmonic Enhanced Optoelectronic Devices. <i>Plasmonics</i> , 2014, 9, 859-866.	3.4	100
125	Mediating Short-Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. <i>Advanced Materials</i> , 2018, 30, e1706395.	21.0	100
126	Stretchable Conductive Fibers Based on a Cracking Control Strategy for Wearable Electronics. <i>Advanced Functional Materials</i> , 2018, 28, 1801683.	14.9	100

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127	Bioinspired Ionic Sensory Systems: The Successor of Electronics. <i>Advanced Materials</i> , 2020, 32, e2000218.	21.0	99
128	Spatially Confined Assembly of Nanoparticles. <i>Accounts of Chemical Research</i> , 2014, 47, 3009-3017.	15.6	98
129	Cu ₂ ZnSn(S,Se) ₄ kesterite solar cell with 5.1% efficiency using spray pyrolysis of aqueous precursor solution followed by selenization. <i>Solar Energy Materials and Solar Cells</i> , 2014, 124, 55-60.	6.2	97
130	Ultra-Lightweight Resistive Switching Memory Devices Based on Silk Fibroin. <i>Small</i> , 2016, 12, 3360-3365.	10.0	97
131	Highly Stable and Stretchable Conductive Films through Thermal-Radiation-Assisted Metal Encapsulation. <i>Advanced Materials</i> , 2019, 31, e1901360.	21.0	96
132	Direct coherent multi-ink printing of fabric supercapacitors. <i>Science Advances</i> , 2021, 7, .	10.3	95
133	Photo-modulable molecular transport junctions based on organometallic molecular wires. <i>Chemical Science</i> , 2012, 3, 3113.	7.4	94
134	Controlled Synthesis of Hollow Cu ₂ Te Nanocrystals Based on the Kirkendall Effect and Their Enhanced CO Gas Sensing Properties. <i>Small</i> , 2013, 9, 793-799.	10.0	94
135	Self-Protection of Electrochemical Storage Devices via a Thermal Reversible Sol-Gel Transition. <i>Advanced Materials</i> , 2015, 27, 5593-5598.	21.0	94
136	Biomechanical-Interactive Materials and Interfaces. <i>Advanced Materials</i> , 2018, 30, e1800572.	21.0	93
137	Conjugated polymer and drug co-encapsulated nanoparticles for Chemo- and Photo-thermal Combination Therapy with two-photon regulated fast drug release. <i>Nanoscale</i> , 2015, 7, 3067-3076.	5.6	92
138	Bioinspired Nanosucker Array for Enhancing Bioelectricity Generation in Microbial Fuel Cells. <i>Advanced Materials</i> , 2016, 28, 270-275.	21.0	92
139	Mechano-Based Transductive Sensing for Wearable Healthcare. <i>Small</i> , 2018, 14, e1702933.	10.0	91
140	2D Material Chemistry: Graphdiyne-based Biochemical Sensing. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 622-630.	2.6	91
141	Surprisingly Long-Range Surface-Enhanced Raman Scattering (SERS) on Au-Ni Multisegmented Nanowires. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4210-4212.	13.8	90
142	Identifying the Origin and Contribution of Surface Storage in TiO ₂ (B) Nanotube Electrode by In Situ Dynamic Valence State Monitoring. <i>Advanced Materials</i> , 2018, 30, e1802200.	21.0	90
143	A bioinspired stretchable membrane-based compliance sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11314-11320.	7.1	90
144	Tertiary amine mediated aerobic oxidation of sulfides into sulfoxides by visible-light photoredox catalysis on TiO ₂ . <i>Chemical Science</i> , 2015, 6, 5000-5005.	7.4	89

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145	Biomass-Derived Porous Fe ₃ C/Tungsten Carbide/Graphitic Carbon Nanocomposite for Efficient Electrocatalysis of Oxygen Reduction. ACS Applied Materials & Interfaces, 2016, 8, 32307-32316.	8.0	88
146	Reducing the Charge Carrier Transport Barrier in Functionally Layer-Graded Electrodes. Angewandte Chemie - International Edition, 2017, 56, 14847-14852.	13.8	88
147	Programmable Nanocarbon-Based Architectures for Flexible Supercapacitors. Advanced Energy Materials, 2015, 5, 1500677.	19.5	87
148	Synergistic photocatalytic aerobic oxidation of sulfides and amines on TiO ₂ under visible-light irradiation. Chemical Science, 2015, 6, 1075-1082.	7.4	87
149	Hierarchically branched Fe ₂ O ₃ @TiO ₂ nanorod arrays for photoelectrochemical water splitting: facile synthesis and enhanced photoelectrochemical performance. Nanoscale, 2016, 8, 11284-11290.	5.6	87
150	Lateral Patterning of Luminescent CdSe Nanocrystals by Selective Dewetting from Self-Assembled Organic Templates. Nano Letters, 2004, 4, 885-888.	9.1	86
151	3D-Structured Stretchable Strain Sensors for Out-of-Plane Force Detection. Advanced Materials, 2018, 30, e1707285.	21.0	86
152	A Compliant Ionic Adhesive Electrode with Ultralow Bioelectronic Impedance. Advanced Materials, 2020, 32, e2003723.	21.0	86
153	Combinatorial Nano-Bio Interfaces. ACS Nano, 2018, 12, 5078-5084.	14.6	84
154	Fusing Stretchable Sensing Technology with Machine Learning for Human-Machine Interfaces. Advanced Functional Materials, 2021, 31, 2008807.	14.9	84
155	Sb ₂ Te ₃ Nanoparticles with Enhanced Seebeck Coefficient and Low Thermal Conductivity. Chemistry of Materials, 2010, 22, 3086-3092.	6.7	83
156	Bioinspired, Microstructured Silk Fibroin Adhesives for Flexible Skin Sensors. ACS Applied Materials & Interfaces, 2020, 12, 5601-5609.	8.0	83
157	Flexible Colorimetric Detection of Mercuric Ion by Simply Mixing Nanoparticles and Oligopeptides. Small, 2011, 7, 1407-1411.	10.0	82
158	Three-Dimensional Graphene Composite Macroscopic Structures for Capture of Cancer Cells. Advanced Materials Interfaces, 2014, 1, 1300043.	3.7	82
159	Mechanocombinatorially Screening Sensitivity of Stretchable Strain Sensors. Advanced Materials, 2019, 31, e1903130.	21.0	82
160	An on-demand plant-based actuator created using conformable electrodes. Nature Electronics, 2021, 4, 134-142.	26.0	81
161	Tuning the Intensity of Metal-Enhanced Fluorescence by Engineering Silver Nanoparticle Arrays. Small, 2010, 6, 1038-1043.	10.0	79
162	Highly Thermal-Wet Comfortable and Conformal Silk-Based Electrodes for On-Skin Sensors with Sweat Tolerance. ACS Nano, 2021, 15, 9955-9966.	14.6	79

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