

Xiaodong Chen

List of Publications by Year in descending order

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Version: 2024-02-01

409
papers

45,197
citations

1040

113
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2375

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449
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449
docs citations

449
times ranked

49005
citing authors

#	ARTICLE	IF	CITATIONS
1	Autonomous Chemistry Enabling Environment-Adaptive Electrochemical Energy Storage Devices. <i>CCS Chemistry</i> , 2023, 5, 11-29.	4.6	36
2	Assemblies and composites of gold nanostructures for functional devices. <i>Aggregate</i> , 2022, 3, e57.	5.2	10
3	Haptically Quantifying Young's Modulus of Soft Materials Using a Self-locked Stretchable Strain Sensor. <i>Advanced Materials</i> , 2022, 34, e2104078.	11.1	39
4	Strain-Enabled Phase Transition of Periodic Metasurfaces. <i>Advanced Materials</i> , 2022, 34, e2102560.	11.1	7
5	Metal-Ion Oligomerization Inside Electrified Carbon Micropores and its Effect on Capacitive Charge Storage. <i>Advanced Materials</i> , 2022, 34, e2107439.	11.1	24
6	Mechanically Durable Memristor Arrays Based on a Discrete Structure Design. <i>Advanced Materials</i> , 2022, 34, e2106212.	11.1	19
7	A New Chapter of ACS Nano: Strengthening the Impact with a Global Engagement. <i>ACS Nano</i> , 2022, 16, 1-2.	7.3	6
8	A Mechanically Interlocking Strategy Based on Conductive Microbridges for Stretchable Electronics. <i>Advanced Materials</i> , 2022, 34, e2101339.	11.1	35
9	Hygroscopic Chemistry Enables Fire-Tolerant Supercapacitors with a Self-Healable Solute-Air Electrolyte. <i>Advanced Materials</i> , 2022, 34, e2109857.	11.1	12
10	Nano and Plants. <i>ACS Nano</i> , 2022, 16, 1681-1684.	7.3	41
11	Enabling the High-Voltage Operation of Layered Ternary Oxide Cathodes via Thermally Tailored Interphase. <i>Small Methods</i> , 2022, 6, e2100920.	4.6	5
12	Tanks and Truth. <i>ACS Nano</i> , 2022, 16, 4975-4976.	7.3	0
13	Ultra-robust stretchable electrode for e-skin: In situ assembly using a nanofiber scaffold and liquid metal to mimic water-net interaction. <i>Informa-Materially</i> , 2022, 4, .	8.5	47
14	Sliding Cyclodextrin Molecules along Polymer Chains to Enhance the Stretchability of Conductive Composites. <i>Small</i> , 2022, 18, e2200533.	5.2	15
15	Enabling the High-Voltage Operation of Layered Ternary Oxide Cathodes via Thermally Tailored Interphase (Small Methods 4/2022). <i>Small Methods</i> , 2022, 6, .	4.6	1
16	Artificial Neural Pathway Based on a Memristor Synapse for Optically Mediated Motion Learning. <i>ACS Nano</i> , 2022, 16, 9691-9700.	7.3	47
17	Nanoscience and Entrepreneurship. <i>ACS Nano</i> , 2022, 16, 6943-6944.	7.3	2
18	Strain-Driven Auto-Detachable Patterning of Flexible Electrodes. <i>Advanced Materials</i> , 2022, 34, .	11.1	50

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19	Haptically Quantifying Young's Modulus of Soft Materials Using a Self-Locked Stretchable Strain Sensor (Adv. Mater. 25/2022). Advanced Materials, 2022, 34, .	11.1	2
20	Three-Dimensional, Submicron Porous Electrode with a Density Gradient to Enhance Charge Carrier Transport. ACS Nano, 2022, 16, 9762-9771.	7.3	17
21	A Light-Permeable Solar Evaporator with Three-Dimensional Photocatalytic Sites to Boost Volatile-Organic-Compound Rejection for Water Purification. Environmental Science & Technology, 2022, 56, 9797-9805.	4.6	25
22	A Figure of Merit for Fast-Charging Li-ion Battery Materials. ACS Nano, 2022, 16, 8525-8530.	7.3	37
23	Highly specific differentiation of MSCs into neurons directed by local electrical stimuli triggered wirelessly by electromagnetic induction nanogenerator. Nano Energy, 2022, 100, 107483.	8.2	13
24	Nano for CRISPR. ACS Nano, 2022, 16, 8505-8506.	7.3	5
25	Tactile Near-Sensor Analogue Computing for Ultrafast Responsive Artificial Skin. Advanced Materials, 2022, 34, .	11.1	42
26	Synthesis and Dewatering Properties of Cellulose Derivative-Grafting DMC Amphoteric Biodegradable Flocculants. Journal of Polymers and the Environment, 2021, 29, 565-575.	2.4	7
27	Porous evaporators with special wettability for low-grade heat-driven water desalination. Journal of Materials Chemistry A, 2021, 9, 702-726.	5.2	60
28	Artificial Skin Perception. Advanced Materials, 2021, 33, e2003014.	11.1	203
29	Carbon dots@metal-organic frameworks as dual-functional fluorescent sensors for Fe ³⁺ ions and nitro explosives. CrystEngComm, 2021, 23, 4038-4049.	1.3	12
30	Direct coherent multi-ink printing of fabric supercapacitors. Science Advances, 2021, 7, .	4.7	95
31	Deep Cycling for High-Capacity Li-Ion Batteries. Advanced Materials, 2021, 33, e2004998.	11.1	43
32	Fusing Stretchable Sensing Technology with Machine Learning for Human-Machine Interfaces. Advanced Functional Materials, 2021, 31, 2008807.	7.8	84
33	A Morphable Ionic Electrode Based on Thermogel for Non-Invasive Hairy Plant Electrophysiology. Advanced Materials, 2021, 33, e2007848.	11.1	51
34	Spatiotemporal Oscillation in Confined Epithelial Motion upon Fluid-to-Solid Transition. ACS Nano, 2021, 15, 7618-7627.	7.3	12
35	Decimal Solvent-Based High-Entropy Electrolyte Enabling the Extended Survival Temperature of Lithium-Ion Batteries to ~130°C. CCS Chemistry, 2021, 3, 1245-1255.	4.6	65
36	Artificial Visual Electronics for Closed-Loop Sensation/Action Systems. Advanced Intelligent Systems, 2021, 3, 2100071.	3.3	3

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37	Scalable combustion synthesis of graphene-welded activated carbon for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2021, 414, 128781.	6.6	134
38	Machine Learning-Enhanced Reinforced Noninvasive Biosensors for Healthcare. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100734.	3.9	62
39	Highly Thermal-Wet Comfortable and Conformal Silk-Based Electrodes for On-Skin Sensors with Sweat Tolerance. <i>ACS Nano</i> , 2021, 15, 9955-9966.	7.3	79
40	A Stretchable and Transparent Electrode Based on PEGylated Silk Fibroin for In Vivo Dual-Modal Neural-Vascular Activity Probing. <i>Advanced Materials</i> , 2021, 33, e2100221.	11.1	43
41	Mechanomaterials: A Rational Deployment of Forces and Geometries in Programming Functional Materials. <i>Advanced Materials</i> , 2021, 33, e2007977.	11.1	34
42	Pangolin-Inspired Stretchable, Microwave-Invisible Metascale. <i>Advanced Materials</i> , 2021, 33, e2102131.	11.1	40
43	Conformal electrodes for on-skin digitalization. <i>SmartMat</i> , 2021, 2, 252-262.	6.4	28
44	An on-demand plant-based actuator created using conformable electrodes. <i>Nature Electronics</i> , 2021, 4, 134-142.	13.1	81
45	A Bioinspired Adhesive-Integrated Agent Strategy for Constructing Robust Gas-Sensing Arrays. <i>Advanced Materials</i> , 2021, 33, e2106067.	11.1	11
46	Perspective for removing volatile organic compounds during solar-driven water evaporation toward water production. <i>EcoMat</i> , 2021, 3, e12147.	6.8	22
47	Structural Regulation of Myocytes in Engineered Healthy and Diseased Cardiac Models. <i>ACS Applied Bio Materials</i> , 2021, 4, 267-276.	2.3	1
48	Programmable Materials. <i>Advanced Materials</i> , 2021, 33, e2107344.	11.1	8
49	High-frequency and intrinsically stretchable polymer diodes. <i>Nature</i> , 2021, 600, 246-252.	13.7	138
50	Artificial Sense Technology: Emulating and Extending Biological Senses. <i>ACS Nano</i> , 2021, 15, 18671-18678.	7.3	64
51	Highly Elastic Binders Incorporated with Helical Molecules to Improve the Electrochemical Stability of Black Phosphorous Anodes for Sodium-Ion Batteries. <i>Batteries and Supercaps</i> , 2020, 3, 101-107.	2.4	8
52	Artificial Sensory Memory. <i>Advanced Materials</i> , 2020, 32, e1902434.	11.1	200
53	Graphene-based wearable piezoresistive physical sensors. <i>Materials Today</i> , 2020, 36, 158-179.	8.3	262
54	Laser-Synthesized Rutile TiO ₂ with Abundant Oxygen Vacancies for Enhanced Solar Water Evaporation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1095-1101.	3.2	65

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55	Tough hydrogel module towards an implantable remote and controlled release device. <i>Biomaterials Science</i> , 2020, 8, 960-972.	2.6	19
56	Photothermal Janus Anode with Photosynthesisâ€‘Shielding Effect for Activating Lowâ€‘Temperature Biological Wastewater Treatment. <i>Advanced Functional Materials</i> , 2020, 30, 1909432.	7.8	14
57	Emerging intraoral biosensors. <i>Journal of Materials Chemistry B</i> , 2020, 8, 3341-3356.	2.9	11
58	Preparation of Rice Husk-Based C/SiO ₂ Composites and Their Performance as Anode Materials in Lithium Ion Batteries. <i>Journal of Electronic Materials</i> , 2020, 49, 1081-1089.	1.0	16
59	An Artificial Somatic Reflex Arc. <i>Advanced Materials</i> , 2020, 32, e1905399.	11.1	126
60	Portable Foodâ€‘Freshness Prediction Platform Based on Colorimetric Barcode Combinatorics and Deep Convolutional Neural Networks. <i>Advanced Materials</i> , 2020, 32, e2004805.	11.1	131
61	Bioinspired Mechanically Interlocking Structures. <i>Small Structures</i> , 2020, 1, 2000045.	6.9	53
62	Powering Body Area Sensor Networks. <i>Matter</i> , 2020, 2, 1085-1086.	5.0	2
63	A Compliant Ionic Adhesive Electrode with Ultralow Bioelectronic Impedance. <i>Advanced Materials</i> , 2020, 32, e2003723.	11.1	86
64	Lab-on-Mask for Remote Respiratory Monitoring. , 2020, 2, 1178-1181.		58
65	2D Material Chemistry: Graphdiyne-based Biochemical Sensing. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 622-630.	1.3	91
66	Siliconâ€‘Based Anode Materials: Mechanically Reinforced Localized Structure Design to Stabilize Solidâ€‘Electrolyte Interface of the Compositated Electrode of Si Nanoparticles and TiO ₂ Nanotubes (Small 30/2020). <i>Small</i> , 2020, 16, 2070169.	5.2	0
67	A Carbon Flower Based Flexible Pressure Sensor Made from Largeâ€‘Area Coating. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000875.	1.9	23
68	Organic Fieldâ€‘Effect Transistors: Challenges and Emerging Opportunities in Highâ€‘Mobility and Lowâ€‘Energyâ€‘Consumption Organic Fieldâ€‘Effect Transistors (Adv. Energy Mater. 29/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070126.	10.2	2
69	Devising Materials Manufacturing Toward Labâ€‘toâ€‘Fab Translation of Flexible Electronics. <i>Advanced Materials</i> , 2020, 32, e2001903.	11.1	60
70	Electron Spin Resonance Evidence for Electro-generated Hydroxyl Radicals. <i>Environmental Science & Technology</i> , 2020, 54, 13333-13343.	4.6	67
71	An artificial sensory neuron with visual-haptic fusion. <i>Nature Communications</i> , 2020, 11, 4602.	5.8	166
72	Actin-ring segment switching drives nonadhesive gap closure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33263-33271.	3.3	12

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73	Polymeric Membranes with Selective Solution-Diffusion for Intercepting Volatile Organic Compounds during Solar-Driven Water Remediation. <i>Advanced Materials</i> , 2020, 32, e2004401.	11.1	142
74	An On-Skin Electrode with Anti-Epidermal-Surface-Lipid Function Based on a Zwitterionic Polymer Brush. <i>Advanced Materials</i> , 2020, 32, e2001130.	11.1	74
75	Locally coupled electromechanical interfaces based on cytoadhesion-inspired hybrids to identify muscular excitation-contraction signatures. <i>Nature Communications</i> , 2020, 11, 2183.	5.8	47
76	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.	3.3	90
77	Challenges and Emerging Opportunities in High-Mobility and Low-Energy-Consumption Organic Field-Effect Transistors. <i>Advanced Energy Materials</i> , 2020, 10, 2000955.	10.2	63
78	Bioinspired Ionic Sensory Systems: The Successor of Electronics. <i>Advanced Materials</i> , 2020, 32, e2000218.	11.1	99
79	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.	13.1	298
80	Mechanically Reinforced Localized Structure Design to Stabilize Solid-Electrolyte Interface of the Compositing Electrode of Si Nanoparticles and TiO ₂ Nanotubes. <i>Small</i> , 2020, 16, e2002094.	5.2	41
81	Polymeric Nonviral Gene Delivery Systems for Cancer Immunotherapy. <i>Advanced Therapeutics</i> , 2020, 3, 1900213.	1.6	30
82	A supertough electro-tendon based on spider silk composites. <i>Nature Communications</i> , 2020, 11, 1332.	5.8	73
83	Dielectric Polarization in Inverse Spinel-Structured Mg ₂ TiO ₄ Coating to Suppress Oxygen Evolution of Li-Rich Cathode Materials. <i>Advanced Materials</i> , 2020, 32, e2000496.	11.1	134
84	Adhesive Biocomposite Electrodes on Sweaty Skin for Long-Term Continuous Electrophysiological Monitoring. , 2020, 2, 478-484.		107
85	A highly efficient diatomic nickel electrocatalyst for CO ₂ reduction. <i>Chemical Communications</i> , 2020, 56, 8798-8801.	2.2	34
86	Enhanced electrochemical decontamination and water permeation of titanium suboxide reactive electrochemical membrane based on sonoelectrochemistry. <i>Ultrasonics Sonochemistry</i> , 2020, 69, 105248.	3.8	17
87	Thermal-Disrupting Interface Mitigates Intercellular Cohesion Loss for Accurate Topical Antibacterial Therapy. <i>Advanced Materials</i> , 2020, 32, e1907030.	11.1	75
88	Photothermal Janus Anodes: Photothermal Janus Anode with Photosynthesis-Shielding Effect for Activating Low-Temperature Biological Wastewater Treatment (<i>Adv. Funct. Mater.</i> 7/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070045.	7.8	1
89	SEI and Interphases at Electrodes. <i>Batteries and Supercaps</i> , 2020, 3, 212-213.	2.4	4
90	Bioinspired, Microstructured Silk Fibroin Adhesives for Flexible Skin Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5601-5609.	4.0	83

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91	Cyberâ€“Physiochemical Interfaces. <i>Advanced Materials</i> , 2020, 32, e1905522.	11.1	64
92	Mechanically Interlocked Hydrogelâ€“Elastomer Hybrids for Onâ€“Skin Electronics. <i>Advanced Functional Materials</i> , 2020, 30, 1909540.	7.8	120
93	Mechanical Tolerance of Cascade Bioreactions via Adaptive Curvature Engineering for Epidermal Bioelectronics. <i>Advanced Materials</i> , 2020, 32, e2000991.	11.1	17
94	Flexible Hybrid Electronics. <i>Advanced Materials</i> , 2020, 32, e1905590.	11.1	59
95	Waterâ€“Resistant Conformal Hybrid Electrodes for Aquatic Endurable Electrocardiographic Monitoring. <i>Advanced Materials</i> , 2020, 32, e2001496.	11.1	146
96	Broadband Extrinsic Selfâ€“Trapped Exciton Emission in Snâ€“Doped 2D Leadâ€“Halide Perovskites. <i>Advanced Materials</i> , 2019, 31, e1806385.	11.1	198
97	Bioâ€“Inspired Plasmonic Photocatalysts. <i>Small Methods</i> , 2019, 3, 1800295.	4.6	13
98	Engineering 2D Architectures toward Highâ€“Performance Microâ€“Supercapacitors. <i>Advanced Materials</i> , 2019, 31, e1802793.	11.1	202
99	Unraveling the Formation of Amorphous MoS ₂ Nanograins during the Electrochemical Delithiation Process. <i>Advanced Functional Materials</i> , 2019, 29, 1904843.	7.8	38
100	A wireless body area sensor network based on stretchable passive tags. <i>Nature Electronics</i> , 2019, 2, 361-368.	13.1	421
101	Hydrogels for Artificial Vitreous: From Prolonged Substitution to Elicited Regeneration. , 2019, 1, 285-289.		22
102	Cesium Oleate Passivation for Stable Perovskite Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27882-27889.	4.0	12
103	Synthesis, Structure, and Magnetic Properties of Bâ€“Doped Fe ₃ N@C Magnetic Nanomaterial as Catalyst for the Hydrogen Evolution Reaction. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900111.	0.7	5
104	Highly Stable and Stretchable Conductive Films through Thermalâ€“Radiationâ€“Assisted Metal Encapsulation. <i>Advanced Materials</i> , 2019, 31, e1901360.	11.1	96
105	Bioinspired Microfluidic Device by Integrating a Porous Membrane and Heterostructured Nanoporous Particles for Biomolecule Cleaning. <i>ACS Nano</i> , 2019, 13, 8374-8381.	7.3	40
106	A silk-based sealant with tough adhesion for instant hemostasis of bleeding tissues. <i>Nanoscale Horizons</i> , 2019, 4, 1333-1341.	4.1	104
107	Mechanocombinatorially Screening Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2019, 31, e1903130.	11.1	82
108	Highâ€“Transconductance Stretchable Transistors Achieved by Controlled Gold Microcrack Morphology. <i>Advanced Electronic Materials</i> , 2019, 5, 1900347.	2.6	70

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109	Synthesis, Structure and Properties Comparison of Fe ₃ N Doped with Ni, Mn and Co. ChemistrySelect, 2019, 4, 5945-5949.	0.7	2
110	Interfacial Lattice-Strain-Driven Generation of Oxygen Vacancies in an Aerobic-Annealed TiO ₂ (B) Electrode. Advanced Materials, 2019, 31, e1906156.	11.1	53
111	The Rise of Bioinspired Ionotronics. Advanced Intelligent Systems, 2019, 1, 1900073.	3.3	43
112	Lowering Charge Transfer Barrier of LiMn ₂ O ₄ via Nickel Surface Doping To Enhance Li ⁺ Intercalation Kinetics at Subzero Temperatures. Journal of the American Chemical Society, 2019, 141, 14038-14042.	6.6	125
113	Correlating the Peukert's Constant with Phase Composition of Electrode Materials in Fast Lithiation Processes. , 2019, 1, 519-525.		45
114	Proactively modulating mechanical behaviors of materials at multiscale for mechano-adaptable devices. Chemical Society Reviews, 2019, 48, 1434-1447.	18.7	32
115	The synthesis, morphology and magnetic properties of (Fe _{1-x} Mn _x) ₃ N nanoparticles. Journal of Materials Science: Materials in Electronics, 2019, 30, 277-283.	1.1	3
116	Three layer-structured cadmium coordination polymers based on flexible 5-(4-pyridyl)-methoxylisophthalic acid: rapid synthesis and luminescence sensing. CrystEngComm, 2019, 21, 1001-1008.	1.3	18
117	Decentralized manufacturing for biomimetics through cooperation of digitization and nanomaterial design. Nanoscale, 2019, 11, 19179-19189.	2.8	1
118	Materials and structural designs of stretchable conductors. Chemical Society Reviews, 2019, 48, 2946-2966.	18.7	367
119	Differential Homeostasis of Sessile and Pendant Epithelium Reconstituted in a 3D-Printed "GeminiChip". Advanced Materials, 2019, 31, e1900514.	11.1	12
120	Materials chemistry in flexible electronics. Chemical Society Reviews, 2019, 48, 1431-1433.	18.7	122
121	Hollow black TiAlO _x nanocomposites for solar thermal desalination. Nanoscale, 2019, 11, 9958-9968.	2.8	23
122	A New Tetrasubstituted Imidazole Based Difunctional Probe for UV-spectrophotometric and Fluorometric Detecting of Fe ³⁺ Ion in Aqueous Solution. Chemical Research in Chinese Universities, 2019, 35, 200-208.	1.3	6
123	Oxygen-vacancies-engaged efficient carrier utilization for the photocatalytic coupling reaction. Journal of Catalysis, 2019, 373, 116-125.	3.1	33
124	Nanomaterials Discovery and Design through Machine Learning. Small Methods, 2019, 3, 1900025.	4.6	67
125	Electrode Materials: Interfacial Lattice-Strain-Driven Generation of Oxygen Vacancies in an Aerobic-Annealed TiO ₂ (B) Electrode (Adv. Mater. 52/2019). Advanced Materials, 2019, 31, 1970367.	11.1	9
126	Decoupling of mechanical properties and ionic conductivity in supramolecular lithium ion conductors. Nature Communications, 2019, 10, 5384.	5.8	249

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127	Synthesis, Morphology and Magnetic Properties of Fe ₃ C/CNTs Composites by a gâ€C ₃ N ₄ Route. ChemistrySelect, 2019, 4, 13596-13600.	0.7	2
128	Heterogeneous Strain Distribution of Elastomer Substrates To Enhance the Sensitivity of Stretchable Strain Sensors. Accounts of Chemical Research, 2019, 52, 82-90.	7.6	52
129	Highly Stretchable, Elastic, and Ionic Conductive Hydrogel for Artificial Soft Electronics. Advanced Functional Materials, 2019, 29, 1806220.	7.8	602
130	Surface Complexation for Photocatalytic Organic Transformations. Bulletin of the Chemical Society of Japan, 2019, 92, 505-510.	2.0	26
131	Custom-Made Electrochemical Energy Storage Devices. ACS Energy Letters, 2019, 4, 606-614.	8.8	123
132	A Photoresponsive Rutile TiO ₂ Heterojunction with Enhanced Electronâ€Hole Separation for Highâ€Performance Hydrogen Evolution. Advanced Materials, 2019, 31, e1806596.	11.1	240
133	Surface diffusion-limited lifetime of silver and copper nanofilaments in resistive switching devices. Nature Communications, 2019, 10, 81.	5.8	204
134	Approaching the Lithiation Limit of MoS ₂ While Maintaining Its Layered Crystalline Structure to Improve Lithium Storage. Angewandte Chemie - International Edition, 2019, 58, 3521-3526.	7.2	62
135	Synthesis, characterization and properties of poly(N-allyl-tetrasubstituted imidazole). Polymer Bulletin, 2019, 76, 5683-5699.	1.7	2
136	Approaching the Lithiation Limit of MoS ₂ While Maintaining Its Layered Crystalline Structure to Improve Lithium Storage. Angewandte Chemie, 2019, 131, 3559-3564.	1.6	18
137	Tactile Chemomechanical Transduction Based on an Elastic Microstructured Array to Enhance the Sensitivity of Portable Biosensors. Advanced Materials, 2019, 31, e1803883.	11.1	45
138	Fluoroethylene Carbonate Enabling a Robust LiFâ€rich Solid Electrolyte Interphase to Enhance the Stability of the MoS ₂ Anode for Lithiumâ€Ion Storage. Angewandte Chemie, 2018, 130, 3718-3722.	1.6	40
139	Supramolecular hydrogels for antimicrobial therapy. Chemical Society Reviews, 2018, 47, 6917-6929.	18.7	196
140	Plasticizing Silk Protein for Onâ€Skin Stretchable Electrodes. Advanced Materials, 2018, 30, e1800129.	11.1	230
141	Editable TiO ₂ Nanomaterial-Modified Paper in Situ for Highly Efficient Detection of Carcinoembryonic Antigen by Photoelectrochemical Method. ACS Applied Materials & Interfaces, 2018, 10, 14594-14601.	4.0	52
142	Fluoroethylene Carbonate Enabling a Robust LiFâ€rich Solid Electrolyte Interphase to Enhance the Stability of the MoS ₂ Anode for Lithiumâ€Ion Storage. Angewandte Chemie - International Edition, 2018, 57, 3656-3660.	7.2	149
143	Precursor non-stoichiometry to enable improved CH ₃ NH ₃ PbBr ₃ nanocrystal LED performance. Physical Chemistry Chemical Physics, 2018, 20, 5918-5925.	1.3	6
144	Auxetic Mechanical Metamaterials to Enhance Sensitivity of Stretchable Strain Sensors. Advanced Materials, 2018, 30, e1706589.	11.1	349

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145	Mechano-Based Transductive Sensing for Wearable Healthcare. <i>Small</i> , 2018, 14, e1702933.	5.2	91
146	Thermal-Responsive Polymers for Enhancing Safety of Electrochemical Storage Devices. <i>Advanced Materials</i> , 2018, 30, e1704347.	11.1	78
147	Synergistic Lysosomal Activatable Polymeric Nanoprobe Encapsulating pH Sensitive Imidazole Derivative for Tumor Diagnosis. <i>Small</i> , 2018, 14, 1703164.	5.2	36
148	Mediating Short-Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. <i>Advanced Materials</i> , 2018, 30, e1706395.	11.1	100
149	Quadruple H-Bonding Cross-Linked Supramolecular Polymeric Materials as Substrates for Stretchable, Antitearing, and Self-Healable Thin Film Electrodes. <i>Journal of the American Chemical Society</i> , 2018, 140, 5280-5289.	6.6	464
150	Surface Strain Redistribution on Structured Microfibers to Enhance Sensitivity of Fiber-Shaped Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018, 30, 1704229.	11.1	208
151	Probing the toxicity mechanism of multiwalled carbon nanotubes on bacteria. <i>Environmental Science and Pollution Research</i> , 2018, 25, 5003-5012.	2.7	32
152	3D Printing of Flexible Electronic Devices. <i>Small Methods</i> , 2018, 2, 1700259.	4.6	126
153	Editable Supercapacitors with Customizable Stretchability Based on Mechanically Strengthened Ultralong MnO ₂ Nanowire Composite. <i>Advanced Materials</i> , 2018, 30, 1704531.	11.1	270
154	Multi-responsive luminescent sensor based on three dimensional lanthanide metal-organic framework. <i>New Journal of Chemistry</i> , 2018, 42, 19485-19493.	1.4	28
155	A Novel Flexible Sensor for Muscle Shape Change Monitoring in Limb Motion Recognition. , 2018, 2018, 4665-4668.		6
156	Honeycomb-Lantern-Inspired 3D Stretchable Supercapacitors with Enhanced Specific Areal Capacitance. <i>Advanced Materials</i> , 2018, 30, e1805468.	11.1	152
157	Storing electricity as chemical energy: beyond traditional electrochemistry and double-layer compression. <i>Energy and Environmental Science</i> , 2018, 11, 3069-3074.	15.6	33
158	Mechano-regulated metal-organic framework nanofilm for ultrasensitive and anti-jamming strain sensing. <i>Nature Communications</i> , 2018, 9, 3813.	5.8	57
159	3D-Structured Stretchable Strain Sensors for Out-of-Plane Force Detection. <i>Advanced Materials</i> , 2018, 30, e1707285.	11.1	86
160	Stretchable Conductive Fibers Based on a Cracking Control Strategy for Wearable Electronics. <i>Advanced Functional Materials</i> , 2018, 28, 1801683.	7.8	100
161	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.	11.1	90
162	Engineering subcellular-patterned biointerfaces to regulate the surface wetting of multicellular spheroids. <i>Nano Research</i> , 2018, 11, 5704-5715.	5.8	13

#	ARTICLE	IF	CITATIONS
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