Xiaodong Chen

List of Publications by Year in Descending Order

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

412 papers	34,066 citations	96 h-index	173 g-index
449 ext. papers	39,437 ext. citations	15 avg, IF	7.68 L-index

#	Paper	IF	Citations
412	A Mechanically Interlocking Strategy Based on Conductive Microbridges for Stretchable Electronics.. *Advanced Materials*, **2022**, e2101339	24	2
411	Hygroscopic chemistry enables fire-tolerant supercapacitors with a self-healable "solute-in-air" electrolyte.. *Advanced Materials*, **2022**, e2109857	24	2
410	Nano and Plants. *ACS Nano*, **2022**, 16, 1681-1684	16.7	14
409	Enabling the High-Voltage Operation of Layered Ternary Oxide Cathodes via Thermally Tailored Interphase.. *Small Methods*, **2022**, e2100920	12.8	2
408	Ultra-robust stretchable electrode for e-skin: In situ assembly using a nanofiber scaffold and liquid metal to mimic water-to-net interaction. *Informa□□Materi□y*, **2022**, 4,	23.1	6
407	Sliding Cyclodextrin Molecules along Polymer Chains to Enhance the Stretchability of Conductive Composites.. *Small*, **2022**, e2200533	11	3
406	Enabling the High-Voltage Operation of Layered Ternary Oxide Cathodes via Thermally Tailored Interphase (Small Methods 4/2022). *Small Methods*, **2022**, 6, 2270026	12.8	0
405	High-frequency and intrinsically stretchable polymer diodes. *Nature*, **2021**, 600, 246-252	50.4	34
404	Mechanically Durable Memristor Arrays Based on a Discrete Structure Design. *Advanced Materials*, **2021**, e2106212	24	5
403	A Bioinspired Adhesive-Integrated-Agent Strategy for Constructing Robust Gas-Sensing Arrays. *Advanced Materials*, **2021**, e2106067	24	2
402	Strain-Enabled Phase Transition of Periodic Metasurfaces. *Advanced Materials*, **2021**, e2102560	24	3
401	Metal-Ion Oligomerization Inside Electrified Carbon Micropores and its Effect on Capacitive Charge Storage. *Advanced Materials*, **2021**, e2107439	24	5
400	Structural Regulation of Myocytes in Engineered Healthy and Diseased Cardiac Models.. *ACS Applied Bio Materials*, **2021**, 4, 267-276	4.1	
399	Fusing Stretchable Sensing Technology with Machine Learning for Human□Machine Interfaces. *Advanced Functional Materials*, **2021**, 31, 2008807	15.6	26
398	A Morphable Ionic Electrode Based on Thermogel for Non-Invasive Hairy Plant Electrophysiology. *Advanced Materials*, **2021**, 33, e2007848	24	17
397	Spatiotemporal Oscillation in Confined Epithelial Motion upon Fluid-to-Solid Transition. *ACS Nano*, **2021**, 15, 7618-7627	16.7	2
396	Decimal Solvent-Based High-Entropy Electrolyte Enabling the Extended Survival Temperature of Lithium-Ion Batteries to □130□□C. *CCS Chemistry*, **2021**, 3, 1245-1255	7.2	15

395	Artificial Visual Electronics for Closed-Loop Sensation/Action Systems. *Advanced Intelligent Systems* , **2021**, 3, 2100071	6	1
394	Scalable combustion synthesis of graphene-welded activated carbon for high-performance supercapacitors. *Chemical Engineering Journal*, **2021**, 414, 128781	14.7	58
393	Machine Learning-Reinforced Noninvasive Biosensors for Healthcare. *Advanced Healthcare Materials*, **2021**, 10, e2100734	10.1	7
392	Highly Thermal-Wet Comfortable and Conformal Silk-Based Electrodes for On-Skin Sensors with Sweat Tolerance. *ACS Nano*, **2021**, 15, 9955-9966	16.7	21
391	A Stretchable and Transparent Electrode Based on PEGylated Silk Fibroin for In Vivo Dual-Modal Neural-Vascular Activity Probing. *Advanced Materials*, **2021**, 33, e2100221	24	8
390	Synthesis and Dewatering Properties of Cellulose Derivative-Grafting DMC Amphoteric Biodegradable Flocculants. *Journal of Polymers and the Environment*, **2021**, 29, 565-575	4.5	2
389	Porous evaporators with special wettability for low-grade heat-driven water desalination. *Journal of Materials Chemistry A*, **2021**, 9, 702-726	13	25
388	Artificial Skin Perception. *Advanced Materials*, **2021**, 33, e2003014	24	78
387	Carbon dots@metal-organic frameworks as dual-functional fluorescent sensors for Fe3+ ions and nitro explosives. *CrystEngComm*, **2021**, 23, 4038-4049	3.3	2
386	Direct coherent multi-ink printing of fabric supercapacitors. *Science Advances*, **2021**, 7,	14.3	44
385	Deep Cycling for High-Capacity Li-Ion Batteries. *Advanced Materials*, **2021**, 33, e2004998	24	15
384	Mechanomaterials: A Rational Deployment of Forces and Geometries in Programming Functional Materials. *Advanced Materials*, **2021**, 33, e2007977	24	10
383	Pangolin-Inspired Stretchable, Microwave-Invisible Metascale. *Advanced Materials*, **2021**, 33, e2102131	24	9
382	Haptically Quantifying Young's Modulus of Soft Materials Using a Self-Locked Stretchable Strain Sensor. *Advanced Materials*, **2021**, e2104078	24	10
381	Conformal electrodes for on-skin digitalization. *SmartMat*, **2021**, 2, 252-262	22.8	5
380	An on-demand plant-based actuator created using conformable electrodes. *Nature Electronics*, **2021**, 4, 134-142	28.4	28
379	Artificial Sense Technology: Emulating and Extending Biological Senses. *ACS Nano*, **2021**,	16.7	13
378	Polymeric Membranes with Selective Solution-Diffusion for Intercepting Volatile Organic Compounds during Solar-Driven Water Remediation. *Advanced Materials*, **2020**, 32, e2004401	24	54

377	An On-Skin Electrode with Anti-Epidermal-Surface-Lipid Function Based on a Zwitterionic Polymer Brush. *Advanced Materials*, **2020**, 32, e2001130	24	35
376	Locally coupled electromechanical interfaces based on cytoadhesion-inspired hybrids to identify muscular excitation-contraction signatures. *Nature Communications*, **2020**, 11, 2183	17.4	31
375	A bioinspired stretchable membrane-based compliance sensor. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 11314-11320	11.5	48
374	Challenges and Emerging Opportunities in High-Mobility and Low-Energy-Consumption Organic Field-Effect Transistors. *Advanced Energy Materials*, **2020**, 10, 2000955	21.8	24
373	Bioinspired Ionic Sensory Systems: The Successor of Electronics. *Advanced Materials*, **2020**, 32, e2000218	24	35
372	Gesture recognition using a bioinspired learning architecture that integrates visual data with somatosensory data from stretchable sensors. *Nature Electronics*, **2020**, 3, 563-570	28.4	137
371	Mechanically Reinforced Localized Structure Design to Stabilize Solid-Electrolyte Interface of the Composited Electrode of Si Nanoparticles and TiO Nanotubes. *Small*, **2020**, 16, e2002094	11	26
370	Polymeric Nonviral Gene Delivery Systems for Cancer Immunotherapy. *Advanced Therapeutics*, **2020**, 3, 1900213	4.9	15
369	A supertough electro-tendon based on spider silk composites. *Nature Communications*, **2020**, 11, 1332	17.4	42
368	Dielectric Polarization in Inverse Spinel-Structured Mg TiO Coating to Suppress Oxygen Evolution of Li-Rich Cathode Materials. *Advanced Materials*, **2020**, 32, e2000496	24	59
367	Adhesive Biocomposite Electrodes on Sweaty Skin for Long-Term Continuous Electrophysiological Monitoring **2020**, 2, 478-484		55
366	A highly efficient diatomic nickel electrocatalyst for CO reduction. *Chemical Communications*, **2020**, 56, 8798-8801	5.8	15
365	Enhanced electrochemical decontamination and water permeation of titanium suboxide reactive electrochemical membrane based on sonoelectrochemistry. *Ultrasonics Sonochemistry*, **2020**, 69, 105248	8.9	7
364	Thermal-Disrupting Interface Mitigates Intercellular Cohesion Loss for Accurate Topical Antibacterial Therapy. *Advanced Materials*, **2020**, 32, e1907030	24	37
363	Photothermal Janus Anodes: Photothermal Janus Anode with Photosynthesis-Shielding Effect for Activating Low-Temperature Biological Wastewater Treatment (Adv. Funct. Mater. 7/2020). *Advanced Functional Materials*, **2020**, 30, 2070045	15.6	1
362	Bioinspired, Microstructured Silk Fibroin Adhesives for Flexible Skin Sensors. *ACS Applied Materials & Interfaces*, **2020**, 12, 5601-5609	9.5	44
361	Cyber-Physiochemical Interfaces. *Advanced Materials*, **2020**, 32, e1905522	24	37
360	Mechanically Interlocked Hydrogel–Elastomer Hybrids for On-Skin Electronics. *Advanced Functional Materials*, **2020**, 30, 1909540	15.6	55

359	Mechanical Tolerance of Cascade Bioreactions via Adaptive Curvature Engineering for Epidermal Bioelectronics. *Advanced Materials*, **2020**, 32, e2000991	24	6
358	Graphene-based wearable piezoresistive physical sensors. *Materials Today*, **2020**, 36, 158-179	21.8	109
357	Laser-Synthesized Rutile TiO2 with Abundant Oxygen Vacancies for Enhanced Solar Water Evaporation. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 1095-1101	8.3	38
356	Tough hydrogel module towards an implantable remote and controlled release device. *Biomaterials Science*, **2020**, 8, 960-972	7.4	9
355	Photothermal Janus Anode with Photosynthesis-Shielding Effect for Activating Low-Temperature Biological Wastewater Treatment. *Advanced Functional Materials*, **2020**, 30, 1909432	15.6	8
354	Emerging intraoral biosensors. *Journal of Materials Chemistry B*, **2020**, 8, 3341-3356	7.3	6
353	Preparation of Rice Husk-Based C/SiO2 Composites and Their Performance as Anode Materials in Lithium Ion Batteries. *Journal of Electronic Materials*, **2020**, 49, 1081-1089	1.9	8
352	An Artificial Somatic Reflex Arc. *Advanced Materials*, **2020**, 32, e1905399	24	64
351	Portable Food-Freshness Prediction Platform Based on Colorimetric Barcode Combinatorics and Deep Convolutional Neural Networks. *Advanced Materials*, **2020**, 32, e2004805	24	38
350	Bioinspired Mechanically Interlocking Structures. *Small Structures*, **2020**, 1, 2000045	8.7	24
349	Powering Body Area Sensor Networks. *Matter*, **2020**, 2, 1085-1086	12.7	0
348	A Compliant Ionic Adhesive Electrode with Ultralow Bioelectronic Impedance. *Advanced Materials*, **2020**, 32, e2003723	24	33
347	Lab-on-Mask for Remote Respiratory Monitoring **2020**, 2, 1178-1181		26
346	2D Material Chemistry: Graphdiyne-based Biochemical Sensing. *Chemical Research in Chinese Universities*, **2020**, 36, 622-630	2.2	60
345	Silicon-Based Anode Materials: Mechanically Reinforced Localized Structure Design to Stabilize Solid Electrolyte Interface of the Composited Electrode of Si Nanoparticles and TiO2 Nanotubes (Small 30/2020). *Small*, **2020**, 16, 2070169	11	
344	A Carbon Flower Based Flexible Pressure Sensor Made from Large-Area Coating. *Advanced Materials Interfaces*, **2020**, 7, 2000875	4.6	12
343	Organic Field-Effect Transistors: Challenges and Emerging Opportunities in High-Mobility and Low-Energy-Consumption Organic Field-Effect Transistors (Adv. Energy Mater. 29/2020). *Advanced Energy Materials*, **2020**, 10, 2070126	21.8	1
342	Devising Materials Manufacturing Toward Lab-to-Fab Translation of Flexible Electronics. *Advanced Materials*, **2020**, 32, e2001903	24	23

341	Electron Spin Resonance Evidence for Electro-generated Hydroxyl Radicals. *Environmental Science & Technology*, **2020**, 54, 13333-13343	10.3	20
340	An artificial sensory neuron with visual-haptic fusion. *Nature Communications*, **2020**, 11, 4602	17.4	55
339	Actin-ring segment switching drives nonadhesive gap closure. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 33263-33271	11.5	2
338	Highly Elastic Binders Incorporated with Helical Molecules to Improve the Electrochemical Stability of Black Phosphorous Anodes for Sodium-Ion Batteries. *Batteries and Supercaps*, **2020**, 3, 101-107	5.6	5
337	Artificial Sensory Memory. *Advanced Materials*, **2020**, 32, e1902434	24	98
336	Water-Resistant Conformal Hybrid Electrodes for Aquatic Endurable Electrocardiographic Monitoring. *Advanced Materials*, **2020**, 32, e2001496	24	66
335	Lowering Charge Transfer Barrier of LiMnO via Nickel Surface Doping To Enhance Li Intercalation Kinetics at Subzero Temperatures. *Journal of the American Chemical Society*, **2019**, 141, 14038-14042	16.4	77
334	Correlating the Peukert□ Constant with Phase Composition of Electrode Materials in Fast Lithiation Processes **2019**, 1, 519-525		32
333	Proactively modulating mechanical behaviors of materials at multiscale for mechano-adaptable devices. *Chemical Society Reviews*, **2019**, 48, 1434-1447	58.5	20
332	The synthesis, morphology and magnetic properties of (Fe1□Mnx)3N nanoparticles. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 277-283	2.1	2
331	Three layer-structured cadmium coordination polymers based on flexible 5-(4-pyridyl)-methoxylisophthalic acid: rapid synthesis and luminescence sensing. *CrystEngComm*, **2019**, 21, 1001-1008	3.3	13
330	Decentralized manufacturing for biomimetics through cooperation of digitization and nanomaterial design. *Nanoscale*, **2019**, 11, 19179-19189	7.7	1
329	Materials and structural designs of stretchable conductors. *Chemical Society Reviews*, **2019**, 48, 2946-2966	58.5	189
328	Differential Homeostasis of Sessile and Pendant Epithelium Reconstituted in a 3D-Printed "GeminiChip". *Advanced Materials*, **2019**, 31, e1900514	24	11
327	Hollow black TiAlO nanocomposites for solar thermal desalination. *Nanoscale*, **2019**, 11, 9958-9968	7.7	14
326	A New Tetrasubstituted Imidazole Based Difunctional Probe for UV-spectrophotometric and Fluorometric Detecting of Fe3+ Ion in Aqueous Solution. *Chemical Research in Chinese Universities*, **2019**, 35, 200-208	2.2	3
325	Oxygen-vacancies-engaged efficient carrier utilization for the photocatalytic coupling reaction. *Journal of Catalysis*, **2019**, 373, 116-125	7.3	15
324	Engineering 2D Architectures toward High-Performance Micro-Supercapacitors. *Advanced Materials* , **2019**, 31, e1802793	24	143

323	Unraveling the Formation of Amorphous MoS2 Nanograins during the Electrochemical Delithiation Process. *Advanced Functional Materials*, **2019**, 29, 1904843	15.6	26
322	A wireless body area sensor network based on stretchable passive tags. *Nature Electronics*, **2019**, 2, 361-368	34	258
321	Hydrogels for Artificial Vitreous: From Prolonged Substitution to Elicited Regeneration **2019**, 1, 285-289		17
320	Cesium Oleate Passivation for Stable Perovskite Photovoltaics. *ACS Applied Materials & Interfaces*, **2019**, 11, 27882-27889	9.5	8
319	Synthesis, Structure, and Magnetic Properties of B-Doped Fe3N@C Magnetic Nanomaterial as Catalyst for the Hydrogen Evolution Reaction. *Physica Status Solidi (B): Basic Research*, **2019**, 256, 1900111	1.3	3
318	Highly Stable and Stretchable Conductive Films through Thermal-Radiation-Assisted Metal Encapsulation. *Advanced Materials*, **2019**, 31, e1901360	24	56
317	Bioinspired Microfluidic Device by Integrating a Porous Membrane and Heterostructured Nanoporous Particles for Biomolecule Cleaning. *ACS Nano*, **2019**, 13, 8374-8381	16.7	26
316	A silk-based sealant with tough adhesion for instant hemostasis of bleeding tissues. *Nanoscale Horizons*, **2019**, 4, 1333-1341	10.8	54
315	Mechanocombinatorially Screening Sensitivity of Stretchable Strain Sensors. *Advanced Materials*, **2019**, 31, e1903130	24	47
314	High-Transconductance Stretchable Transistors Achieved by Controlled Gold Microcrack Morphology. *Advanced Electronic Materials*, **2019**, 5, 1900347	6.4	33
313	Synthesis, Structure and Properties Comparison of Fe3N Doped with Ni, Mn and Co. *ChemistrySelect* , **2019**, 4, 5945-5949	1.8	2
312	Interfacial Lattice-Strain-Driven Generation of Oxygen Vacancies in an Aerobic-Annealed TiO (B) Electrode. *Advanced Materials*, **2019**, 31, e1906156	24	33
311	The Rise of Bioinspired Ionotronics. *Advanced Intelligent Systems*, **2019**, 1, 1900073	6	25
310	Nanomaterials Discovery and Design through Machine Learning. *Small Methods*, **2019**, 3, 1900025	12.8	33
309	Electrode Materials: Interfacial Lattice-Strain-Driven Generation of Oxygen Vacancies in an Aerobic-Annealed TiO2(B) Electrode (Adv. Mater. 52/2019). *Advanced Materials*, **2019**, 31, 1970367	24	5
308	Decoupling of mechanical properties and ionic conductivity in supramolecular lithium ion conductors. *Nature Communications*, **2019**, 10, 5384	17.4	126
307	Synthesis, Morphology and Magnetic Properties of Fe3C/CNTs Composites by a g-C3N4 Route. *ChemistrySelect*, **2019**, 4, 13596-13600	1.8	0
306	Heterogeneous Strain Distribution of Elastomer Substrates To Enhance the Sensitivity of Stretchable Strain Sensors. *Accounts of Chemical Research*, **2019**, 52, 82-90	24.3	32

305	Highly Stretchable, Elastic, and Ionic Conductive Hydrogel for Artificial Soft Electronics. *Advanced Functional Materials*, **2019**, 29, 1806220	15.6	342
304	Surface Complexation for Photocatalytic Organic Transformations. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 505-510	5.1	22
303	Custom-Made Electrochemical Energy Storage Devices. *ACS Energy Letters*, **2019**, 4, 606-614	20.1	72
302	A Photoresponsive Rutile TiO Heterojunction with Enhanced Electron-Hole Separation for High-Performance Hydrogen Evolution. *Advanced Materials*, **2019**, 31, e1806596	24	137
301	Surface diffusion-limited lifetime of silver and copper nanofilaments in resistive switching devices. *Nature Communications*, **2019**, 10, 81	17.4	125
300	Approaching the Lithiation Limit of MoS While Maintaining Its Layered Crystalline Structure to Improve Lithium Storage. *Angewandte Chemie - International Edition*, **2019**, 58, 3521-3526	16.4	44
299	Synthesis, characterization and properties of poly(N-allyl-tetrasubstituted imidazole). *Polymer Bulletin*, **2019**, 76, 5683-5699	2.4	1
298	Approaching the Lithiation Limit of MoS2 While Maintaining Its Layered Crystalline Structure to Improve Lithium Storage. *Angewandte Chemie*, **2019**, 131, 3559-3564	3.6	12
297	Tactile Chemomechanical Transduction Based on an Elastic Microstructured Array to Enhance the Sensitivity of Portable Biosensors. *Advanced Materials*, **2019**, 31, e1803883	24	34
296	Broadband Extrinsic Self-Trapped Exciton Emission in Sn-Doped 2D Lead-Halide Perovskites. *Advanced Materials*, **2019**, 31, e1806385	24	94
295	Fluoroethylene Carbonate Enabling a Robust LiF-rich Solid Electrolyte Interphase to Enhance the Stability of the MoS2 Anode for Lithium-Ion Storage. *Angewandte Chemie*, **2018**, 130, 3718-3722	3.6	22
294	Flexible Supercapacitors Based on Two-Dimensional Materials **2018**, 161-197		2
293	Supramolecular hydrogels for antimicrobial therapy. *Chemical Society Reviews*, **2018**, 47, 6917-6929	58.5	128
292	Plasticizing Silk Protein for On-Skin Stretchable Electrodes. *Advanced Materials*, **2018**, 30, e1800129	24	160
291	Editable TiO Nanomaterial-Modified Paper in Situ for Highly Efficient Detection of Carcinoembryonic Antigen by Photoelectrochemical Method. *ACS Applied Materials & Interfaces*, **2018**, 10, 14594-14601	9.5	36
290	Fluoroethylene Carbonate Enabling a Robust LiF-rich Solid Electrolyte Interphase to Enhance the Stability of the MoS Anode for Lithium-Ion Storage. *Angewandte Chemie - International Edition*, **2018**, 57, 3656-3660	16.4	117
289	Precursor non-stoichiometry to enable improved CHNHPbBr nanocrystal LED performance. *Physical Chemistry Chemical Physics*, **2018**, 20, 5918-5925	3.6	5
288	Auxetic Mechanical Metamaterials to Enhance Sensitivity of Stretchable Strain Sensors. *Advanced Materials*, **2018**, 30, e1706589	24	213

287	Mechano-Based Transductive Sensing for Wearable Healthcare. *Small*, **2018**, 14, e1702933	11	66
286	Thermal-Responsive Polymers for Enhancing Safety of Electrochemical Storage Devices. *Advanced Materials*, **2018**, 30, e1704347	24	54
285	Synergistic Lysosomal Activatable Polymeric Nanoprobe Encapsulating pH Sensitive Imidazole Derivative for Tumor Diagnosis. *Small*, **2018**, 14, 1703164	11	31
284	Mediating Short-Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. *Advanced Materials*, **2018**, 30, e1706395	24	69
283	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	16.4	312
282	CoFe2O4 Nanocrystals Mediated Crystallization Strategy for Magnetic Functioned ZSM-5 Catalysts. *Advanced Functional Materials*, **2018**, 28, 1802088	15.6	10
281	Programmable Negative Differential Resistance Effects Based on Self-Assembled Au@PPy Core-Shell Nanoparticle Arrays. *Advanced Materials*, **2018**, 30, e1802731	24	45
280	Synthesis of Highly Sensitive Fluorescent Probe Based on Tetrasubstituted Imidazole and Its Application for Selective Detection of Ag+ Ion in Aqueous Media. *Chemical Research in Chinese Universities*, **2018**, 34, 369-374	2.2	9
279	Correlating the Surface Basicity of Metal Oxides with Photocatalytic Hydroxylation of Boronic Acids to Alcohols. *Angewandte Chemie - International Edition*, **2018**, 57, 9780-9784	16.4	25
278	Calcinable Polymer Membrane with Revivability for Efficient Oily-Water Remediation. *Advanced Materials*, **2018**, 30, e1801870	24	139
277	An Artificial Sensory Neuron with Tactile Perceptual Learning. *Advanced Materials*, **2018**, 30, e1801291	24	216
276	Combinatorial Nano-Bio Interfaces. *ACS Nano*, **2018**, 12, 5078-5084	16.7	59
275	Correlating the Surface Basicity of Metal Oxides with Photocatalytic Hydroxylation of Boronic Acids to Alcohols. *Angewandte Chemie*, **2018**, 130, 9928-9932	3.6	7
274	Biomechano-Interactive Materials and Interfaces. *Advanced Materials*, **2018**, 30, e1800572	24	75
273	Surface Strain Redistribution on Structured Microfibers to Enhance Sensitivity of Fiber-Shaped Stretchable Strain Sensors. *Advanced Materials*, **2018**, 30, 1704229	24	159
272	Probing the toxicity mechanism of multiwalled carbon nanotubes on bacteria. *Environmental Science and Pollution Research*, **2018**, 25, 5003-5012	5.1	19
271	Editable Supercapacitors with Customizable Stretchability Based on Mechanically Strengthened Ultralong MnO Nanowire Composite. *Advanced Materials*, **2018**, 30, 1704531	24	202
270	Multi-responsive luminescent sensor based on three dimensional lanthanide metal–organic framework. *New Journal of Chemistry*, **2018**, 42, 19485-19493	3.6	19

269	Bio-Inspired Plasmonic Photocatalysts. *Small Methods*, **2018**, 3, 1800295	12.8	9
268	A Novel Flexible Sensor for Muscle Shape Change Monitoring in Limb Motion Recognition. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 4665-4668	0.9	4
267	Honeycomb-Lantern-Inspired 3D Stretchable Supercapacitors with Enhanced Specific Areal Capacitance. *Advanced Materials*, **2018**, 30, e1805468	24	114
266	Storing electricity as chemical energy: beyond traditional electrochemistry and double-layer compression. *Energy and Environmental Science*, **2018**, 11, 3069-3074	35.4	24
265	Mechano-regulated metal-organic framework nanofilm for ultrasensitive and anti-jamming strain sensing. *Nature Communications*, **2018**, 9, 3813	17.4	46
264	3D-Structured Stretchable Strain Sensors for Out-of-Plane Force Detection. *Advanced Materials*, **2018**, 30, e1707285	24	62
263	Stretchable Conductive Fibers Based on a Cracking Control Strategy for Wearable Electronics. *Advanced Functional Materials*, **2018**, 28, 1801683	15.6	67
262	Identifying the Origin and Contribution of Surface Storage in TiO (B) Nanotube Electrode by In Situ Dynamic Valence State Monitoring. *Advanced Materials*, **2018**, 30, e1802200	24	72
261	Engineering subcellular-patterned biointerfaces to regulate the surface wetting of multicellular spheroids. *Nano Research*, **2018**, 11, 5704-5715	10	9
260	Enhancing the Matrix Addressing of Flexible Sensory Arrays by a Highly Nonlinear Threshold Switch. *Advanced Materials*, **2018**, 30, e1802516	24	47
259	Elastic substrates for stretchable devices. *MRS Bulletin*, **2017**, 42, 103-107	3.2	30
258	Enhanced photocatalytic degradation of phenol and photogenerated charges transfer property over BiOI-loaded ZnO composites. *Journal of Colloid and Interface Science*, **2017**, 494, 130-138	9.3	98
257	Programmable Nano-Bio Interfaces for Functional Biointegrated Devices. *Advanced Materials*, **2017**, 29, 1605529	24	91
256	Healable Transparent Electronic Devices. *Advanced Functional Materials*, **2017**, 27, 1606339	15.6	89
255	High-performance piezoelectric nanogenerators composed of formamidinium lead halide perovskite nanoparticles and poly(vinylidene fluoride). *Nano Energy*, **2017**, 37, 126-135	17.1	113
254	Metal-sulfide-decorated ZnO/Si nano-heterostructure arrays with enhanced photoelectrochemical performance. *Materials Research Bulletin*, **2017**, 96, 503-508	5.1	6
253	A flexible transparent colorimetric wrist strap sensor. *Nanoscale*, **2017**, 9, 869-874	7.7	81
252	Nanomechanically Visualizing Drug-Cell Interaction at the Early Stage of Chemotherapy. *ACS Nano*, **2017**, 11, 6996-7005	16.7	35

251	Diverse Applications of Nanomedicine. *ACS Nano*, **2017**, 11, 2313-2381	16.7	714
250	Al(2)O(3) Surface Complexation for Photocatalytic Organic Transformations. *Journal of the American Chemical Society*, **2017**, 139, 269-276	16.4	55
249	Reducing the Charge Carrier Transport Barrier in Functionally Layer-Graded Electrodes. *Angewandte Chemie*, **2017**, 129, 15043-15048	3.6	15
248	Nature-Inspired Structural Materials for Flexible Electronic Devices. *Chemical Reviews*, **2017**, 117, 12893-12941	52.1	401
247	Reducing the Charge Carrier Transport Barrier in Functionally Layer-Graded Electrodes. *Angewandte Chemie - International Edition*, **2017**, 56, 14847-14852	16.4	71
246	Highly Stretchable, Compliant, Polymeric Microelectrode Arrays for In Vivo Electrophysiological Interfacing. *Advanced Materials*, **2017**, 29, 1702800	24	110
245	Artificial interphase engineering of electrode materials to improve the overall performance of lithium-ion batteries. *Nano Research*, **2017**, 10, 4115-4138	10	38
244	Stretchable Motion Memory Devices Based on Mechanical Hybrid Materials. *Advanced Materials*, **2017**, 29, 1701780	24	55
243	Biointegrated Devices: Programmable Nano**B**io Interfaces for Functional Biointegrated Devices (Adv. Mater. 26/2017). *Advanced Materials*, **2017**, 29,	24	3
242	Water-Soluble Sericin Protein Enabling Stable Solid-Electrolyte Interphase for Fast Charging High Voltage Battery Electrode. *Advanced Materials*, **2017**, 29, 1701828	24	114
241	Nanomechanical Force Mapping of Restricted Cell-To-Cell Collisions Oscillating between Contraction and Relaxation. *ACS Nano*, **2017**, 11, 12302-12310	16.7	20
240	3D Printed Photoresponsive Devices Based on Shape Memory Composites. *Advanced Materials*, **2017**, 29, 1701627	24	257
239	Synthesis, structure and magnetic properties of Fe3N nanoparticles. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 15701-15707	2.1	10
238	High-Adhesion Stretchable Electrodes Based on Nanopile Interlocking. *Advanced Materials*, **2017**, 29, 1603382	24	122
237	3D Macroporous Nitrogen-Enriched Graphitic Carbon Scaffold for Efficient Bioelectricity Generation in Microbial Fuel Cells. *Advanced Energy Materials*, **2017**, 7, 1601364	21.8	102
236	High-Performance Photothermal Conversion of Narrow-Bandgap Ti O Nanoparticles. *Advanced Materials*, **2017**, 29, 1603730	24	529
235	Design of Architectures and Materials in In-Plane Micro-supercapacitors: Current Status and Future Challenges. *Advanced Materials*, **2017**, 29, 1602802	24	295
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