Huisheng Peng

List of Publications by Citations

317 papers	23,246 citations	84 h-index	142 g-index
345 ext. papers	27,083 ext. citations	13.6 avg, IF	7.35 L-index

#	Paper	IF	Citations
317	Twisting carbon nanotube fibers for both wire-shaped micro-supercapacitor and micro-battery. *Advanced Materials*, **2013**, 25, 1155-9, 1224	24	635
316	Recent advancement of nanostructured carbon for energy applications. *Chemical Reviews*, **2015**, 115, 5159-223	68.1	598
315	A Fiber Supercapacitor with High Energy Density Based on Hollow Graphene/Conducting Polymer Fiber Electrode. *Advanced Materials*, **2016**, 28, 3646-52	24	538
314	Gel Polymer Electrolytes for Electrochemical Energy Storage. *Advanced Energy Materials*, **2018**, 8, 1702184	24.8	435
313	A highly stretchable, fiber-shaped supercapacitor. *Angewandte Chemie - International Edition*, **2013**, 52, 13453-7	16.4	431
312	Flexible and weaveable capacitor wire based on a carbon nanocomposite fiber. *Advanced Materials*, **2013**, 25, 5965-70	24	401
311	An Integrated "energy wire" for both photoelectric conversion and energy storage. *Angewandte Chemie - International Edition*, **2012**, 51, 11977-80	16.4	377
310	Smart Electronic Textiles. *Angewandte Chemie - International Edition*, **2016**, 55, 6140-69	16.4	371
309	Theory-driven design of high-valence metal sites for water oxidation confirmed using in situ soft X-ray absorption. *Nature Chemistry*, **2018**, 10, 149-154	17.6	328
308	Developing polymer composite materials: carbon nanotubes or graphene?. *Advanced Materials*, **2013**, 25, 5153-76	24	323
307	Energy harvesting and storage in 1D devices. *Nature Reviews Materials*, **2017**, 2,	73.3	315
306	Novel electric double-layer capacitor with a coaxial fiber structure. *Advanced Materials*, **2013**, 25, 6436-41	24	314
305	Integrated polymer solar cell and electrochemical supercapacitor in a flexible and stable fiber format. *Advanced Materials*, **2014**, 26, 466-70	24	298
304	Electrochromatic carbon nanotube/polydiacetylene nanocomposite fibres. *Nature Nanotechnology*, **2009**, 4, 738-41	28.7	294
303	Flexible and stretchable lithium-ion batteries and supercapacitors based on electrically conducting carbon nanotube fiber springs. *Angewandte Chemie - International Edition*, **2014**, 53, 14564-8	16.4	288
302	Novel graphene/carbon nanotube composite fibers for efficient wire-shaped miniature energy devices. *Advanced Materials*, **2014**, 26, 2868-73	24	279
301	A colour-tunable, weavable fibre-shaped polymer light-emitting electrochemical cell. *Nature Photonics*, **2015**, 9, 233-238	33.9	271

300	A revolution in electrodes: recent progress in rechargeable lithium-sulfur batteries. *Small*, **2015**, 11, 1488-511	11	261
299	Elastic and wearable wire-shaped lithium-ion battery with high electrochemical performance. *Angewandte Chemie - International Edition*, **2014**, 53, 7864-9	16.4	259
298	Twisted aligned carbon nanotube/silicon composite fiber anode for flexible wire-shaped lithium-ion battery. *Advanced Materials*, **2014**, 26, 1217-22	24	256
297	Electrochromic fiber-shaped supercapacitors. *Advanced Materials*, **2014**, 26, 8126-32	24	248
296	Flexible, Stretchable, and Rechargeable Fiber-Shaped Zinc-Air Battery Based on Cross-Stacked Carbon Nanotube Sheets. *Angewandte Chemie - International Edition*, **2015**, 54, 15390-4	16.4	241
295	High-performance transparent and stretchable all-solid supercapacitors based on highly aligned carbon nanotube sheets. *Scientific Reports*, **2014**, 4, 3612	4.9	239
294	Hierarchically arranged helical fibre actuators driven by solvents and vapours. *Nature Nanotechnology*, **2015**, 10, 1077-83	28.7	237
293	Intertwined aligned carbon nanotube fiber based dye-sensitized solar cells. *Nano Letters*, **2012**, 12, 2568-72	11.5	231
292	Advanced Sodium Ion Battery Anode Constructed via Chemical Bonding between Phosphorus, Carbon Nanotube, and Cross-Linked Polymer Binder. *ACS Nano*, **2015**, 9, 11933-41	16.7	220
291	Integrating perovskite solar cells into a flexible fiber. *Angewandte Chemie - International Edition*, **2014**, 53, 10425-8	16.4	219
290	Flexible, weavable and efficient microsupercapacitor wires based on polyaniline composite fibers incorporated with aligned carbon nanotubes. *Journal of Materials Chemistry A*, **2013**, 1, 258-261	13	201
289	Superelastic supercapacitors with high performances during stretching. *Advanced Materials*, **2015**, 27, 356-62	24	200
288	Smart, stretchable supercapacitors. *Advanced Materials*, **2014**, 26, 4444-9	24	196
287	Winding aligned carbon nanotube composite yarns into coaxial fiber full batteries with high performances. *Nano Letters*, **2014**, 14, 3432-8	11.5	195
286	Aligned carbon nanotube/polymer composite films with robust flexibility, high transparency, and excellent conductivity. *Journal of the American Chemical Society*, **2008**, 130, 42-3	16.4	194
285	A Real-Time Wearable UV-Radiation Monitor based on a High-Performance p-CuZnS/n-TiO Photodetector. *Advanced Materials*, **2018**, 30, e1803165	24	194
284	Stretchable, wearable dye-sensitized solar cells. *Advanced Materials*, **2014**, 26, 2643-7, 2613	24	191
283	Tunable Photothermal Actuators Based on a Pre-programmed Aligned Nanostructure. *Journal of the American Chemical Society*, **2016**, 138, 225-30	16.4	187

282	Large-area display textiles integrated with functional systems. *Nature*, **2021**, 591, 240-245	50.4	177
281	Advances in Wearable Fiber-Shaped Lithium-Ion Batteries. *Advanced Materials*, **2016**, 28, 4524-31	24	173
280	Self-healable electrically conducting wires for wearable microelectronics. *Angewandte Chemie - International Edition*, **2014**, 53, 9526-31	16.4	171
279	An All-Solid-State Fiber-Shaped Aluminum-Air Battery with Flexibility, Stretchability, and High Electrochemical Performance. *Angewandte Chemie - International Edition*, **2016**, 55, 7979-82	16.4	167
278	Application Challenges in Fiber and Textile Electronics. *Advanced Materials*, **2020**, 32, e1901971	24	161
277	Novel solar cells in a wire format. *Chemical Society Reviews*, **2013**, 42, 5031-41	58.5	155
276	High-Performance Lithium-Air Battery with a Coaxial-Fiber Architecture. *Angewandte Chemie - International Edition*, **2016**, 55, 4487-91	16.4	153
275	Fabricating Continuous Supercapacitor Fibers with High Performances by Integrating All Building Materials and Steps into One Process. *Advanced Materials*, **2015**, 27, 7854-60	24	152
274	A Self-Healing Aqueous Lithium-Ion Battery. *Angewandte Chemie - International Edition*, **2016**, 55, 14384-14388	16.4	151
273	The recent progress of nitrogen-doped carbon nanomaterials for electrochemical batteries. *Journal of Materials Chemistry A*, **2018**, 6, 12932-12944	13	149
272	High-valence metals improve oxygen evolution reaction performance by modulating 3d metal oxidation cycle energetics. *Nature Catalysis*, **2020**, 3, 985-992	36.5	149
271	A gum-like lithium-ion battery based on a novel arched structure. *Advanced Materials*, **2015**, 27, 1363-9	24	148
270	A Cable-Shaped Lithium Sulfur Battery. *Advanced Materials*, **2016**, 28, 491-6	24	148
269	Selective Etching of Nitrogen-Doped Carbon by Steam for Enhanced Electrochemical CO2 Reduction. *Advanced Energy Materials*, **2017**, 7, 1701456	21.8	146
268	Recent progress in solar cells based on one-dimensional nanomaterials. *Energy and Environmental Science*, **2015**, 8, 1139-1159	35.4	146
267	Super-stretchy lithium-ion battery based on carbon nanotube fiber. *Journal of Materials Chemistry A* , **2014**, 2, 11054	13	140
266	Photovoltaic wire derived from a graphene composite fiber achieving an 8.45 % energy conversion efficiency. *Angewandte Chemie - International Edition*, **2013**, 52, 7545-8	16.4	138
265	Large-Area Supercapacitor Textiles with Novel Hierarchical Conducting Structures. *Advanced Materials*, **2016**, 28, 8431-8438	24	137

264	Weaving Sensing Fibers into Electrochemical Fabric for Real-Time Health Monitoring. *Advanced Functional Materials*, **2018**, 28, 1804456	15.6	136
263	Multi-functional Flexible Aqueous Sodium-Ion Batteries with High Safety. *CheM*, **2017**, 3, 348-362	16.2	135
262	Nitrogen-Doped Core-Sheath Carbon Nanotube Array for Highly Stretchable Supercapacitor. *Advanced Energy Materials*, **2017**, 7, 1601814	21.8	132
261	An integrated device for both photoelectric conversion and energy storage based on free-standing and aligned carbon nanotube film. *Journal of Materials Chemistry A*, **2013**, 1, 954-958	13	129
260	A hybrid carbon aerogel with both aligned and interconnected pores as interlayer for high-performance lithium–sulfur batteries. *Nano Research*, **2016**, 9, 3735-3746	10	127
259	All-in-one fiber for stretchable fiber-shaped tandem supercapacitors. *Nano Energy*, **2018**, 45, 210-219	17.1	126
258	Efficient dye-sensitized photovoltaic wires based on an organic redox electrolyte. *Journal of the American Chemical Society*, **2013**, 135, 10622-5	16.4	125
257	A Deep-Cycle Aqueous Zinc-Ion Battery Containing an Oxygen-Deficient Vanadium Oxide Cathode. *Angewandte Chemie - International Edition*, **2020**, 59, 2273-2278	16.4	124
256	Elastic and Wearable Wire-Shaped Lithium-Ion Battery with High Electrochemical Performance. *Angewandte Chemie*, **2014**, 126, 7998-8003	3.6	119
255	Novel Wearable Energy Devices Based on Aligned Carbon Nanotube Fiber Textiles. *Advanced Energy Materials*, **2015**, 5, 1401438	21.8	118
254	A Shape-Memory Supercapacitor Fiber. *Angewandte Chemie - International Edition*, **2015**, 54, 15419-23	16.4	118
253	Conjugated Polymers for Flexible Energy Harvesting and Storage. *Advanced Materials*, **2018**, 30, e1704263	24	117
252	Integration: An Effective Strategy to Develop Multifunctional Energy Storage Devices. *Advanced Energy Materials*, **2016**, 6, 1501867	21.8	115
251	A novel energy fiber by coaxially integrating dye-sensitized solar cell and electrochemical capacitor. *Journal of Materials Chemistry A*, **2014**, 2, 1897-1902	13	110
250	Photoinduced deformation of crosslinked liquid-crystalline polymer film oriented by a highly aligned carbon nanotube sheet. *Angewandte Chemie - International Edition*, **2012**, 51, 4644-7	16.4	110
249	Design of a Hierarchical Ternary Hybrid for a Fiber-Shaped Asymmetric Supercapacitor with High Volumetric Energy Density. *Journal of Physical Chemistry C*, **2016**, 120, 9685-9691	3.8	109
248	Designing aligned inorganic nanotubes at the electrode interface: towards highly efficient photovoltaic wires. *Advanced Materials*, **2012**, 24, 4623-8	24	107
247	Radially oriented mesoporous TiO2 microspheres with single-crystal-like anatase walls for high-efficiency optoelectronic devices. *Science Advances*, **2015**, 1, e1500166	14.3	106

246	A fiber-shaped aqueous lithium ion battery with high power density. *Journal of Materials Chemistry A*, **2016**, 4, 9002-9008	13	105
245	Unusual reversible photomechanical actuation in polymer/nanotube composites. *Angewandte Chemie - International Edition*, **2012**, 51, 8520-4	16.4	101
244	Textile Display for Electronic and Brain-Interfaced Communications. *Advanced Materials*, **2018**, 30, e1800323	24	99
243	Functionalized helical fibre bundles of carbon nanotubes as electrochemical sensors for long-term in vivo monitoring of multiple disease biomarkers. *Nature Biomedical Engineering*, **2020**, 4, 159-171	19	99
242	Electrochemical Capacitors with High Output Voltages that Mimic Electric Eels. *Advanced Materials*, **2016**, 28, 2070-6	24	98
241	Self-powered energy fiber: energy conversion in the sheath and storage in the core. *Advanced Materials*, **2014**, 26, 7038-42	24	94
240	A safe and non-flammable sodium metal battery based on an ionic liquid electrolyte. *Nature Communications*, **2019**, 10, 3302	17.4	91
239	The p-Orbital Delocalization of Main-Group Metals to Boost CO Electroreduction. *Angewandte Chemie - International Edition*, **2018**, 57, 16114-16119	16.4	91
238	Aligned carbon nanotube/molybdenum disulfide hybrids for effective fibrous supercapacitors and lithium ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 17553-17557	13	89
237	Fiber-Shaped Perovskite Solar Cells with High Power Conversion Efficiency. *Small*, **2016**, 12, 2419-24	11	87
236	A Lattice-Oxygen-Involved Reaction Pathway to Boost Urea Oxidation. *Angewandte Chemie - International Edition*, **2019**, 58, 16820-16825	16.4	85
235	A Li-Air Battery with Ultralong Cycle Life in Ambient Air. *Advanced Materials*, **2018**, 30, 1704378	24	85
234	Mechanochromic photonic-crystal fibers based on continuous sheets of aligned carbon nanotubes. *Angewandte Chemie - International Edition*, **2015**, 54, 3630-4	16.4	84
233	A Novel One-Step Approach to Core-Stabilized Nanoparticles at High Solid Contents. *Macromolecules*, **2003**, 36, 2576-2578	5.5	84
232	An Aligned and Laminated Nanostructured Carbon Hybrid Cathode for High-Performance Lithium-Sulfur Batteries. *Angewandte Chemie - International Edition*, **2015**, 54, 10539-44	16.4	83
231	Realizing both high energy and high power densities by twisting three carbon-nanotube-based hybrid fibers. *Angewandte Chemie - International Edition*, **2015**, 54, 11177-82	16.4	83
230	Antipulverization Electrode Based on Low-Carbon Triple-Shelled Superstructures for Lithium-Ion Batteries. *Advanced Materials*, **2017**, 29, 1701494	24	82
229	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. *Angewandte Chemie - International Edition*, **2019**, 58, 2437-2442	16.4	81

228	Vertically aligned pearl-like carbon nanotube arrays for fiber spinning. *Journal of the American Chemical Society*, **2008**, 130, 1130-1	16.4	79
227	A smart, stretchable resistive heater textile. *Journal of Materials Chemistry C*, **2017**, 5, 41-46	7.1	78
226	A twisted wire-shaped dual-function energy device for photoelectric conversion and electrochemical storage. *Angewandte Chemie - International Edition*, **2014**, 53, 6664-8	16.4	78
225	Core-sheath carbon nanostructured fibers for efficient wire-shaped dye-sensitized solar cells. *Advanced Materials*, **2014**, 26, 1694-8	24	74
224	A One-Dimensional Fluidic Nanogenerator with a High Power Conversion Efficiency. *Angewandte Chemie - International Edition*, **2017**, 56, 12940-12945	16.4	74
223	Aligned carbon nanotube/polymer composite fibers with improved mechanical strength and electrical conductivity. *Journal of Materials Chemistry*, **2012**, 22, 903-908		74
222	Weaving Efficient Polymer Solar Cell Wires into Flexible Power Textiles. *Advanced Energy Materials*, **2014**, 4, 1301750	21.8	73
221	Synthesizing Nitrogen-Doped Core–Sheath Carbon Nanotube Films for Flexible Lithium Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1600271	21.8	72
220	A Mechanically Actuating Carbon-Nanotube Fiber in Response to Water and Moisture. *Angewandte Chemie - International Edition*, **2015**, 54, 14880-4	16.4	72
219	A Sodiophilic Interphase-Mediated, Dendrite-Free Anode with Ultrahigh Specific Capacity for Sodium-Metal Batteries. *Angewandte Chemie - International Edition*, **2019**, 58, 17054-17060	16.4	71
218	A fiber-shaped solar cell showing a record power conversion efficiency of 10%. *Journal of Materials Chemistry A*, **2018**, 6, 45-51	13	71
217	An intercalated graphene/(molybdenum disulfide) hybrid fiber for capacitive energy storage. *Journal of Materials Chemistry A*, **2017**, 5, 925-930	13	70
216	Advanced functional polymer materials. *Materials Chemistry Frontiers*, **2020**, 4, 1803-1915	7.8	70
215	A coaxial triboelectric nanogenerator fiber for energy harvesting and sensing under deformation. *Journal of Materials Chemistry A*, **2017**, 5, 6032-6037	13	69
214	Stretchable lithium-air batteries for wearable electronics. *Journal of Materials Chemistry A*, **2016**, 4, 13419-13424	13	69
213	Scalable production of high-performing woven lithium-ion fibre batteries. *Nature*, **2021**, 597, 57-63	50.4	69
212	The Recent Advance in Fiber-Shaped Energy Storage Devices. *Advanced Electronic Materials*, **2019**, 5, 1800456	6.4	68
211	Flexible solar cells based on carbon nanomaterials. *Carbon*, **2018**, 139, 1063-1073	10.4	67

210	Composite carbon nanotube/silica fibers with improved mechanical strengths and electrical conductivities. *Small*, **2008**, 4, 1964-7	11	67
209	Flexible metal–gas batteries: a potential option for next-generation power accessories for wearable electronics. *Energy and Environmental Science*, **2020**, 13, 1933-1970	35.4	67
208	Biocompatible carbon nanotube fibers for implantable supercapacitors. *Carbon*, **2017**, 122, 162-167	10.4	66
207	Electromechanical Actuator Ribbons Driven by Electrically Conducting Spring-Like Fibers. *Advanced Materials*, **2015**, 27, 4982-8	24	66
206	Mesoporous TiO2 Mesocrystals: Remarkable Defects-Induced Crystallite-Interface Reactivity and Their in Situ Conversion to Single Crystals. *ACS Central Science*, **2015**, 1, 400-8	16.8	63
205	Radically grown obelisk-like ZnO arrays for perovskite solar cell fibers and fabrics through a mild solution process. *Journal of Materials Chemistry A*, **2015**, 3, 9406-9410	13	62
204	Stretchable polymer solar cell fibers. *Small*, **2015**, 11, 675-80	11	61
203	An all-solid-state fiber-type solar cell achieving 9.49% efficiency. *Journal of Materials Chemistry A*, **2016**, 4, 10105-10109	13	61
202	Flexible and stable lithium ion batteries based on three-dimensional aligned carbon nanotube/silicon hybrid electrodes. *Journal of Materials Chemistry A*, **2014**, 2, 9306	13	61
201	Quasi-solid-state, coaxial, fiber-shaped dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 345-349	13	61
200	Self-Assembly of Formic Acid/Polystyrene-block-poly(4-vinylpyridine) Complexes into Vesicles in a Low-Polar Organic Solvent Chloroform. *Langmuir*, **2003**, 19, 10989-10992	4	61
199	Design of Helically Double-Leveled Gaps for Stretchable Fiber Strain Sensor with Ultralow Detection Limit, Broad Sensing Range, and High Repeatability. *ACS Applied Materials & Interfaces*, **2019**, 11, 4345-4352	9.5	61
198	An Electrochemical Biosensor with Dual Signal Outputs: Toward Simultaneous Quantification of pH and O in the Brain upon Ischemia and in a Tumor during Cancer Starvation Therapy. *Angewandte Chemie - International Edition*, **2017**, 56, 10471-10475	16.4	60
197	Rational Design of a Flexible CNTs@PDMS Film Patterned by Bio-Inspired Templates as a Strain Sensor and Supercapacitor. *Small*, **2019**, 15, e1805493	11	60
196	Oriented PEDOT:PSS on aligned carbon nanotubes for efficient dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 13268	13	58
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194	Flexible electroluminescent fiber fabricated from coaxially wound carbon nanotube sheets. *Journal of Materials Chemistry C*, **2015**, 3, 5621-5624	7.1	55
193	Flexible, Stretchable, and Rechargeable Fiber-Shaped Zinc–Air Battery Based on Cross-Stacked Carbon Nanotube Sheets. *Angewandte Chemie*, **2015**, 127, 15610-15614	3.6	55

192	Superaligned Carbon Nanotubes Guide Oriented Cell Growth and Promote Electrophysiological Homogeneity for Synthetic Cardiac Tissues. *Advanced Materials*, **2017**, 29, 1702713	24	53
191	Polymer photovoltaic wires based on aligned carbon nanotube fibers. *Journal of Materials Chemistry*, **2012**, 22, 23655		53
190	Highly Surface-Wrinkled and N-Doped CNTs Anchored on Metal Wire: A Novel Fiber-Shaped Cathode toward High-Performance Flexible Li□O2 Batteries. *Advanced Functional Materials*, **2019**, 29, 1808117	15.6	52
189	Ultrasmall MnO Nanoparticles Supported on Nitrogen-Doped Carbon Nanotubes as Efficient Anode Materials for Sodium Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 38401-38408	9.5	51
188	Multifunctional Fibers to Shape Future Biomedical Devices. *Advanced Functional Materials*, **2019**, 29, 1902834	15.6	51
187	Photovoltaic Wire Derived from a Graphene Composite Fiber Achieving an 8.45 % Energy Conversion Efficiency. *Angewandte Chemie*, **2013**, 125, 7693-7696	3.6	50
186	Engineering Carbon Nanotube Fiber for Real-Time Quantification of Ascorbic Acid Levels in a Live Rat Model of Alzheimer's Disease. *Analytical Chemistry*, **2017**, 89, 1831-1837	7.8	49
185	Three-dimensional helical inorganic thermoelectric generators and photodetectors for stretchable and wearable electronic devices. *Journal of Materials Chemistry C*, **2018**, 6, 4866-4872	7.1	49
184	An All-Solid-State Fiber-Shaped Aluminum□Air Battery with Flexibility, Stretchability, and High Electrochemical Performance. *Angewandte Chemie*, **2016**, 128, 8111-8114	3.6	49
183	The Rise of Fiber Electronics. *Angewandte Chemie - International Edition*, **2019**, 58, 13643-13653	16.4	48
182	A triboelectric textile templated by a three-dimensionally penetrated fabric. *Journal of Materials Chemistry A*, **2016**, 4, 6077-6083	13	48
181	Flexible and Stretchable Lithium-Ion Batteries and Supercapacitors Based on Electrically Conducting Carbon Nanotube Fiber Springs. *Angewandte Chemie*, **2014**, 126, 14792-14796	3.6	48
180	A Highly Stretchable, Fiber-Shaped Supercapacitor. *Angewandte Chemie*, **2013**, 125, 13695-13699	3.6	48
179	Smart color-changing textile with high contrast based on a single-sided conductive fabric. *Journal of Materials Chemistry C*, **2016**, 4, 7589-7594	7.1	47
178	A lightweight polymer solar cell textile that functions when illuminated from either side. *Angewandte Chemie - International Edition*, **2014**, 53, 11571-4	16.4	47
177	Regulating the Local Charge Distribution of Ni Active Sites for the Urea Oxidation Reaction. *Angewandte Chemie - International Edition*, **2021**, 60, 10577-10582	16.4	46
176	Carbon nanomaterials for flexible lithium ion batteries. *Carbon*, **2017**, 124, 79-88	10.4	45
175	All carbon nanotube fiber electrode-based dye-sensitized photovoltaic wire. *Journal of Materials Chemistry*, **2012**, 22, 14856		45

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173	An Ultraflexible Silicon-Oxygen Battery Fiber with High Energy Density. *Angewandte Chemie - International Edition*, **2017**, 56, 13741-13746	16.4	44
172	A novel fabrication of a well distributed and aligned carbon nanotube film electrode for dye-sensitized solar cells. *Journal of Materials Chemistry*, **2012**, 22, 16833		44
171	Wearable Solar Cells by Stacking Textile Electrodes. *Angewandte Chemie*, **2014**, 126, 6224-6228	3.6	43
170	Photovoltaic wire with high efficiency attached onto and detached from a substrate using a magnetic field. *Angewandte Chemie - International Edition*, **2013**, 52, 8276-80	16.4	42
169	Integrated devices to realize energy conversion and storage simultaneously. *ChemPhysChem*, **2013**, 14, 1777-82	3.2	42
168	A redox-active gel electrolyte for fiber-shaped supercapacitor with high area specific capacitance. *Journal of Materials Chemistry A*, **2015**, 3, 6286-6290	13	41
167	Stretchable supercapacitor based on a cellular structure. *Journal of Materials Chemistry A*, **2016**, 4, 10124-10129	13	41
166	Stretchable and Energy-Efficient Heating Carbon Nanotube Fiber by Designing a Hierarchically Helical Structure. *Small*, **2018**, 14, 1702926	11	41
165	Preparation and Application of Aligned Carbon Nanotube/Polymer Composite Material. *Acta Chimica Sinica*, **2012**, 70, 1523	3.3	40
164	Generating Electricity from Water through Carbon Nanomaterials. *Chemistry - A European Journal*, **2018**, 24, 6287-6294	4.8	39
163	Flexible and stretchable mechanoluminescent fiber and fabric. *Journal of Materials Chemistry C*, **2017**, 5, 8027-8032	7.1	39
162	A Deep-Cycle Aqueous Zinc-Ion Battery Containing an Oxygen-Deficient Vanadium Oxide Cathode. *Angewandte Chemie*, **2020**, 132, 2293-2298	3.6	38
161	Stabilizing Highly Active Ru Sites by Suppressing Lattice Oxygen Participation in Acidic Water Oxidation. *Journal of the American Chemical Society*, **2021**, 143, 6482-6490	16.4	38
160	A three-dimensionally stretchable high performance supercapacitor. *Journal of Materials Chemistry A*, **2016**, 4, 14968-14973	13	38
159	Recent advances in flexible fiber-shaped metal-air batteries. *Energy Storage Materials*, **2020**, 28, 364-374	19.4	38
158	The p-Orbital Delocalization of Main-Group Metals to Boost CO2 Electroreduction. *Angewandte Chemie*, **2018**, 130, 16346-16351	3.6	38
157	Preparation of biomimetic hierarchically helical fiber actuators from carbon nanotubes. *Nature Protocols*, **2017**, 12, 1349-1358	18.8	37

156	The continuous fabrication of mechanochromic fibers. *Journal of Materials Chemistry C*, **2016**, 4, 2127-2133	7.1	36
155	Ultrafast and reversible thermochromism of a conjugated polymer material based on the assembly of peptide amphiphiles. *Chemical Science*, **2014**, 5, 4189-4195	9.4	36
154	An Integrated Energy Wire for both Photoelectric Conversion and Energy Storage. *Angewandte Chemie*, **2012**, 124, 12143-12146	3.6	36
153	Polymer solar cell textiles with interlaced cathode and anode fibers. *Journal of Materials Chemistry A*, **2018**, 6, 19947-19953	13	36
152	Flexible and stretchable chromatic fibers with high sensing reversibility. *Chemical Science*, **2016**, 7, 5113-5117	9.4	35
151	Integrating photovoltaic conversion and lithium ion storage into a flexible fiber. *Journal of Materials Chemistry A*, **2016**, 4, 7601-7605	13	35
150	Synthesis of aligned carbon nanotube composite fibers with high performances by electrochemical deposition. *Journal of Materials Chemistry A*, **2013**, 1, 2211-2216	13	34
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148	Hydration-Effect-Promoting Ni-Fe Oxyhydroxide Catalysts for Neutral Water Oxidation. *Advanced Materials*, **2020**, 32, e1906806	24	33
147	A One-Pot Approach to the Preparation of Organic Core-Shell Nanoobjects with Different Morphologies. *Macromolecules*, **2005**, 38, 3550-3553	5.5	33
146	The 2021 flexible and printed electronics roadmap. *Flexible and Printed Electronics*, **2022**, 6, 023001	3.1	33
145	A highly efficient alkaline HER Co-Mo bimetallic carbide catalyst with an optimized Mo d-orbital electronic state. *Journal of Materials Chemistry A*, **2019**, 7, 12434-12439	13	32
144	Chemical-to-Electricity Carbon: Water Device. *Advanced Materials*, **2018**, 30, e1707635	24	32
143	Self-Healable Electrically Conducting Wires for Wearable Microelectronics. *Angewandte Chemie*, **2014**, 126, 9680-9685	3.6	32
142	An Aligned and Laminated Nanostructured Carbon Hybrid Cathode for High-Performance Lithium-Sulfur Batteries. *Angewandte Chemie*, **2015**, 127, 10685-10690	3.6	32
141	Photoinduced Deformation of Crosslinked Liquid-Crystalline Polymer Film Oriented by a Highly Aligned Carbon Nanotube Sheet. *Angewandte Chemie*, **2012**, 124, 4722-4725	3.6	32
140	A Sodiophilic Interphase-Mediated, Dendrite-Free Anode with Ultrahigh Specific Capacity for Sodium-Metal Batteries. *Angewandte Chemie*, **2019**, 131, 17210-17216	3.6	31
139	High-Performance, Stretchable, Wire-Shaped Supercapacitors. *Angewandte Chemie*, **2015**, 127, 628-632	3.6	31

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