

# Ray H Baughman

## 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.

280 papers	38,356 citations	81 h-index	194 g-index
302 ext. papers	41,958 ext. citations	12 avg, IF	7.4 L-index

#	Paper	IF	Citations
280	Improved thermoacoustic sound projectors by vibration mode modification. <i>Journal of Sound and Vibration</i> , <b>2022</b> , 524, 116753	3.9	1
279	The strongest and toughest predicted materials: Linear atomic chains without a Peierls instability. <i>Matter</i> , <b>2022</b> , 5, 1192-1203	12.7	1
278	More powerful twistron carbon nanotube yarn mechanical energy harvesters.. <i>Advanced Materials</i> , <b>2022</b> , e2201826	24	3
277	Understanding the low frequency response of carbon nanotube thermoacoustic projectors. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 498, 115940	3.9	
276	The Power of Fiber Twist. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 2624-2636	24.3	11
275	Self-Powered Carbon Nanotube Yarn for Acceleration Sensor Application. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 2676-2683	8.9	3
274	Unipolar stroke, electroosmotic pump carbon nanotube yarn muscles. <i>Science</i> , <b>2021</b> , 371, 494-498	33.3	34
273	Humidity- and Water-Responsive Torsional and Contractile Lotus Fiber Yarn Artificial Muscles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 6642-6649	9.5	16
272	High-strength scalable graphene sheets by freezing stretch-induced alignment. <i>Nature Materials</i> , <b>2021</b> , 20, 624-631	27	42
271	Using ultra-thin interlaminar carbon nanotube sheets to enhance the mechanical and electrical properties of carbon fiber reinforced polymer composites. <i>Composites Part B: Engineering</i> , <b>2021</b> , 216, 108842	10	8
270	Bounds on the in-plane Poisson's ratios and the in-plane linear and area compressibilities for sheet crystals. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2021</b> , 152, 104409	5	3
269	The Interfacial Shear Strength of Carbon Nanotube Sheet Modified Carbon Fiber Composites. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2021</b> , 25-32	0.3	9
268	Three-dimensional carbon nanotube networks from beta zeolite templates: Thermal stability and mechanical properties. <i>Computational Materials Science</i> , <b>2020</b> , 182, 109781	3.2	3
267	Two-Ply Carbon Nanotube Fiber-Typed Enzymatic Biofuel Cell Implanted in Mice. <i>IEEE Transactions on Nanobioscience</i> , <b>2020</b> , 19, 333-338	3.4	4
266	Additive Functionalization and Embroidery for Manufacturing Wearable and Washable Textile Supercapacitors. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910541	15.6	32
265	Programmable and Thermally Hardening Composite Yarn Actuators with a Wide Range of Operating Temperature. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000329	6.8	9
264	Super-tough MXene-functionalized graphene sheets. <i>Nature Communications</i> , <b>2020</b> , 11, 2077	17.4	132

263	Shaping nanomaterials by short electrical pulses. <i>Nanotechnology</i> , <b>2020</b> , 31, 365302	3.4	0
262	Electrical energy harvesting from ferritin bistructured carbon nanotube yarn. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 164, 112318	11.8	8
261	Predicted Confinement-Enhanced Stability and Extraordinary Mechanical Properties for Carbon Nanotube Wrapped Chains of Linear Carbon. <i>ACS Nano</i> , <b>2020</b> ,	16.7	10
260	Self-Powered, Electrochemical Carbon Nanotube Pressure Sensors for Wave Monitoring. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004564	15.6	9
259	Bidirectional Core Sandwich Structure of Reduced Graphene Oxide and Spinnable Multiwalled Carbon Nanotubes for Electromagnetic Interference Shielding Effectiveness. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 46883-46891	9.5	7
258	Wearable Energy Generating and Storing Textile Based on Carbon Nanotube Yarns. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000411	15.6	21
257	Self-Powered Coiled Carbon-Nanotube Yarn Sensor for Gastric Electronics. <i>ACS Sensors</i> , <b>2019</b> , 4, 2893-2899	9.2	14
256	Carbon nanotubes-elastomer actuator driven electrothermally by low-voltage. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 965-968	5.1	21
255	Electrochemical graphene/carbon nanotube yarn artificial muscles. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 286, 237-242	8.5	26
254	Highly loaded MXene/carbon nanotube yarn electrodes for improved asymmetric supercapacitor performance. <i>MRS Communications</i> , <b>2019</b> , 9, 114-121	2.7	26
253	Orthogonal pattern of spinnable multiwall carbon nanotubes for electromagnetic interference shielding effectiveness. <i>Carbon</i> , <b>2019</b> , 152, 33-39	10.4	11
252	Enhancing the strength, toughness, and electrical conductivity of twist-spun carbon nanotube yarns by bridging. <i>Carbon</i> , <b>2019</b> , 150, 268-274	10.4	22
251	Moisture Sensitive Smart Yarns and Textiles from Self-Balanced Silk Fiber Muscles. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808241	15.6	119
250	Enhancing the Work Capacity of Electrochemical Artificial Muscles by Coiling Plies of Twist-Released Carbon Nanotube Yarns. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 13533-13537	9.5	18
249	A multiscale model to study the enhancement in the compressive strength of multi-walled CNT sheet overwrapped carbon fiber composites. <i>Composite Structures</i> , <b>2019</b> , 219, 170-178	5.3	8
248	Temperature-independent capacitance of carbon-based supercapacitor from -100 to 60 °C. <i>Energy Storage Materials</i> , <b>2019</b> , 22, 323-329	19.4	61
247	Controllable Preparation of Ordered and Hierarchically Buckled Structures for Inflatable Tumor Ablation, Volumetric Strain Sensor, and Communication via Inflatable Antenna. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 10862-10873	9.5	10
246	Silver Nanowires on Carbon Nanotube Aerogel Sheets for Flexible, Transparent Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 32235-32243	9.5	16

245	Electrodeposition of $\text{MnO}/\text{MnO}$ on Carbon Nanotube for Yarn Supercapacitor. <i>Scientific Reports</i> , <b>2019</b> , 9, 11271	4.9	36
244	Modeling the Compressive Buckling Strain as a Function of the Nanocomposite Interphase Thickness in a Carbon Nanotube Sheet Wrapped Carbon Fiber Composite. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2019</b> , 86,	2.7	2
243	Torsional refrigeration by twisted, coiled, and supercoiled fibers. <i>Science</i> , <b>2019</b> , 366, 216-221	33.3	65
242	Intelligently Actuating Liquid Crystal Elastomer-Carbon Nanotube Composites. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1905063	15.6	62
241	Sheath-run artificial muscles. <i>Science</i> , <b>2019</b> , 365, 150-155	33.3	120
240	Enhancement of electromagnetic interference shielding effectiveness with alignment of spinnable multiwalled carbon nanotubes. <i>Carbon</i> , <b>2019</b> , 142, 528-534	10.4	16
239	Biomolecule based fiber supercapacitor for implantable device. <i>Nano Energy</i> , <b>2018</b> , 47, 385-392	17.1	52
238	Weavable asymmetric carbon nanotube yarn supercapacitor for electronic textiles.. <i>RSC Advances</i> , <b>2018</b> , 8, 13112-13120	3.7	32
237	General Synthesis of 3D Ordered Macro-/Mesoporous Materials by Templating Mesoporous Silica Confined in Opals. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1617-1624	9.6	34
236	Harvesting electrical energy from torsional thermal actuation driven by natural convection. <i>Scientific Reports</i> , <b>2018</b> , 8, 8712	4.9	9
235	Biscrolled Carbon Nanotube Yarn Structured Silver-Zinc Battery. <i>Scientific Reports</i> , <b>2018</b> , 8, 11150	4.9	23
234	Stretchable Fiber Biofuel Cell by Rewrapping Multiwalled Carbon Nanotube Sheets. <i>Nano Letters</i> , <b>2018</b> , 18, 5272-5278	11.5	22
233	Strong, Conductive, Foldable Graphene Sheets by Sequential Ionic and $\pi$ -Bridging. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802733	24	53
232	Sequentially bridged graphene sheets with high strength, toughness, and electrical conductivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 5359-5364	11.5	77
231	Large-Stroke Electrochemical Carbon Nanotube/Graphene Hybrid Yarn Muscles. <i>Small</i> , <b>2018</b> , 14, e1801883	11.5	23
230	High-Performance Biscrolled MXene/Carbon Nanotube Yarn Supercapacitors. <i>Small</i> , <b>2018</b> , 14, e1802225	11	114
229	Ag/MnO Composite Sheath-Core Structured Yarn Supercapacitors. <i>Scientific Reports</i> , <b>2018</b> , 8, 13309	4.9	23
228	Tensile fatigue behavior of single carbon nanotube yarns. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 11426-11432	11.5	6

227	Thermoacoustic sound projector: exceeding the fundamental efficiency of carbon nanotubes. <i>Nanotechnology</i> , <b>2018</b> , 29, 325704	3.4	13
226	Magnetic torsional actuation of carbon nanotube yarn artificial muscle.. <i>RSC Advances</i> , <b>2018</b> , 8, 17421-17425	3.7	9
225	High Power Density Electrochemical Thermocells for Inexpensively Harvesting Low-Grade Thermal Energy. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605652	24	108
224	Compact and low-cost humanoid hand powered by nylon artificial muscles. <i>Bioinspiration and Biomimetics</i> , <b>2017</b> , 12, 026004	2.6	74
223	Design of a 3D printed lightweight orthotic device based on twisted and coiled polymer muscle: iGrab hand orthosis <b>2017</b> ,		5
222	Microscopically Buckled and Macroscopically Coiled Fibers for Ultra-Stretchable Supercapacitors. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602021	21.8	81
221	Enhanced rate performance of flexible and stretchable linear supercapacitors based on polyaniline@Au@carbon nanotube with ultrafast axial electron transport. <i>Journal of Power Sources</i> , <b>2017</b> , 340, 302-308	8.9	55
220	Electrochemically Powered, Energy-Conserving Carbon Nanotube Artificial Muscles. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700870	24	69
219	Tunable, Fast, Robust Hydrogel Actuators Based on Evaporation-Programmed Heterogeneous Structures. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9793-9801	9.6	73
218	Harvesting electrical energy from carbon nanotube yarn twist. <i>Science</i> , <b>2017</b> , 357, 773-778	33.3	214
217	Polar-Electrode-Bridged Electroluminescent Displays: 2D Sensors Remotely Communicating Optically. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703552	24	34
216	iGrab: hand orthosis powered by twisted and coiled polymer muscles. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 105048	3.4	39
215	A Bi-Sheath Fiber Sensor for Giant Tensile and Torsional Displacements. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702134	15.6	68
214	Subwoofer and nanotube butterfly acoustic flame extinction. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 29LT01	3	2
213	Bioinspired Multifunctional Ceramic Platelet-Reinforced Piezoelectric Polymer Composite . <i>Advanced Engineering Materials</i> , <b>2017</b> , 19, 1600570	3.5	9
212	Probe Sensor Using Nanostructured Multi-Walled Carbon Nanotube Yarn for Selective and Sensitive Detection of Dopamine. <i>Sensors</i> , <b>2017</b> , 17,	3.8	26
211	Electrothermally Driven Carbon-Based Materials as EAPs: Fundamentals and Device Configurations <b>2016</b> , 455-470		
210	Twistable and Stretchable Sandwich Structured Fiber for Wearable Sensors and Supercapacitors. <i>Nano Letters</i> , <b>2016</b> , 16, 7677-7684	11.5	166

209	Electrochemically Driven Carbon-Based Materials as EAPs: Fundamentals and Device Configurations <b>2016</b> , 439-454		
208	Conducting Fibers: Downsized Sheath-Core Conducting Fibers for Weavable Superelastic Wires, Biosensors, Supercapacitors, and Strain Sensors (Adv. Mater. 25/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 4946	24	5
207	Brazing techniques for the fabrication of biocompatible carbon-based electronic devices. <i>Carbon</i> , <b>2016</b> , 107, 180-189	10.4	12
206	Bio-inspired Hybrid Carbon Nanotube Muscles. <i>Scientific Reports</i> , <b>2016</b> , 6, 26687	4.9	20
205	Ultraviolet-induced irreversible tensile actuation of diacetylene/nylon microfibers. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 075031	3.4	1
204	Woven-Yarn Thermoelectric Textiles. <i>Advanced Materials</i> , <b>2016</b> , 28, 5038-44	24	138
203	Electrothermally Driven Carbon-Based Materials as EAPs: Fundamentals and Device Configurations <b>2016</b> , 1-16		
202	Temperature-Responsive Tensile Actuator Based on Multi-walled Carbon Nanotube Yarn. <i>Nano-Micro Letters</i> , <b>2016</b> , 8, 254-259	19.5	12
201	Strong, Twist-Stable Carbon Nanotube Yarns and Muscles by Tension Annealing at Extreme Temperatures. <i>Advanced Materials</i> , <b>2016</b> , 28, 6598-605	24	72
200	Biothermal sensing of a torsional artificial muscle. <i>Nanoscale</i> , <b>2016</b> , 8, 3248-53	7.7	40
199	Ordered Mesoporous Nickel Sphere Arrays for Highly Efficient Electrocatalytic Water Oxidation. <i>ACS Catalysis</i> , <b>2016</b> , 6, 1446-1450	13.1	89
198	Highly stretchable hybrid nanomembrane supercapacitors. <i>RSC Advances</i> , <b>2016</b> , 6, 24756-24759	3.7	20
197	Architected materials: Straining to expand entanglements. <i>Nature Materials</i> , <b>2016</b> , 15, 7-8	27	7
196	Chapter 13:Bio-inspired Polymer Artificial Muscles. <i>RSC Polymer Chemistry Series</i> , <b>2016</b> , 429-459	1.3	4
195	Electrochemically Driven Carbon-Based Materials as EAPs: Fundamentals and Device Configurations <b>2016</b> , 1-16		
194	Artificial Muscle: Carbon Nanotube Yarn-Based Glucose Sensing Artificial Muscle (Small 15/2016). <i>Small</i> , <b>2016</b> , 12, 2100-2100	11	1
193	Elastomeric and Dynamic MnO <sub>2</sub> /CNT Core-Shell Structure Coiled Yarn Supercapacitor. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502119	21.8	148
192	Carbon Nanotube Yarn-Based Glucose Sensing Artificial Muscle. <i>Small</i> , <b>2016</b> , 12, 2085-91	11	45

191	Downsized Sheath-Core Conducting Fibers for Weavable Superelastic Wires, Biosensors, Supercapacitors, and Strain Sensors. <i>Advanced Materials</i> , <b>2016</b> , 28, 4998-5007	24	107
190	Stretchable Triboelectric Fiber for Self-powered Kinematic Sensing Textile. <i>Scientific Reports</i> , <b>2016</b> , 6, 35153	4.9	82
189	Improvement of system capacitance via weavable superelastic bistructured yarn supercapacitors. <i>Nature Communications</i> , <b>2016</b> , 7, 13811	17.4	111
188	Bio-inspired, Moisture-Powered Hybrid Carbon Nanotube Yarn Muscles. <i>Scientific Reports</i> , <b>2016</b> , 6, 23016	4.9	47
187	High-efficiency electrochemical thermal energy harvester using carbon nanotube aerogel sheet electrodes. <i>Nature Communications</i> , <b>2016</b> , 7, 10600	17.4	172
186	Mediator-free carbon nanotube yarn biofuel cell. <i>RSC Advances</i> , <b>2016</b> , 6, 48346-48350	3.7	13
185	A deformable robot with tensegrity structure using nylon artificial muscle <b>2016</b> ,		15
184	Knitted Carbon-Nanotube-Sheath/Spandex-Core Elastomeric Yarns for Artificial Muscles and Strain Sensing. <i>ACS Nano</i> , <b>2016</b> , 10, 9129-9135	16.7	147
183	New twist on artificial muscles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 11709-11716	11.5	173
182	Tensile actuators of carbon nanotube coiled yarn based on polydiacetylene-pluronic copolymers as temperature indicators. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 075021	3.4	3
181	Three-dimensionally bonded spongy graphene material with super compressive elasticity and near-zero Poisson's ratio. <i>Nature Communications</i> , <b>2015</b> , 6, 6141	17.4	389
180	Stability of carbon nanotube yarn biofuel cell in human body fluid. <i>Journal of Power Sources</i> , <b>2015</b> , 286, 103-108	8.9	20
179	High performance electrochemical and electrothermal artificial muscles from twist-spun carbon nanotube yarn. <i>Nano Convergence</i> , <b>2015</b> , 2,	9.2	8
178	Three-dimensionally ordered macro-/mesoporous Ni as a highly efficient electrocatalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11367-11375	13	37
177	Nylon-muscle-actuated robotic finger <b>2015</b> ,		23
176	Stretchable, weavable coiled carbon nanotube/MnO <sub>2</sub> /polymer fiber solid-state supercapacitors. <i>Scientific Reports</i> , <b>2015</b> , 5, 9387	4.9	189
175	Optical, electrical, and electromechanical properties of hybrid graphene/carbon nanotube films. <i>Advanced Materials</i> , <b>2015</b> , 27, 3053-9	24	88
174	Harvesting temperature fluctuations as electrical energy using torsional and tensile polymer muscles. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3336-3344	35.4	43



173	Alternative nanostructures for thermophones. <i>ACS Nano</i> , <b>2015</b> , 9, 4743-56	16.7	38
172	Efficient, Absorption-Powered Artificial Muscles Based on Carbon Nanotube Hybrid Yarns. <i>Small</i> , <b>2015</b> , 11, 3113-8	11	64
171	Torsional behaviors of polymer-infiltrated carbon nanotube yarn muscles studied with atomic force microscopy. <i>Nanoscale</i> , <b>2015</b> , 7, 2489-96	7.7	21
170	Flexible, stretchable and weavable piezoelectric fiber. <i>Advanced Engineering Materials</i> , <b>2015</b> , 17, 1270-1275	3.5	63
169	Nanotube aerogel sheet flutter for actuation, power generation, and infrasound detection. <i>Scientific Reports</i> , <b>2014</b> , 4, 6105	4.9	6
168	Artificial muscles from fishing line and sewing thread. <i>Science</i> , <b>2014</b> , 343, 868-72	33.3	724
167	Superior rechargeability and efficiency of lithium-oxygen batteries: hierarchical air electrode architecture combined with a soluble catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 3926-3931	16.4	360
166	Flexible supercapacitor made of carbon nanotube yarn with internal pores. <i>Advanced Materials</i> , <b>2014</b> , 26, 2059-65	24	303
165	Hybrid carbon nanotube yarn artificial muscle inspired by spider dragline silk. <i>Nature Communications</i> , <b>2014</b> , 5, 3322	17.4	102
164	All-solid-state carbon nanotube torsional and tensile artificial muscles. <i>Nano Letters</i> , <b>2014</b> , 14, 2664-9	11.5	77
163	Thermoacoustic excitation of sonar projector plates by free-standing carbon nanotube sheets. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 355302	3	8
162	Thermal management of thermoacoustic sound projectors using a free-standing carbon nanotube aerogel sheet as a heat source. <i>Nanotechnology</i> , <b>2014</b> , 25, 405704	3.4	25
161	Primary liver cells cultured on carbon nanotube substrates for liver tissue engineering and drug discovery applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 10373-80	9.5	22
160	Superior Rechargeability and Efficiency of Lithium-Oxygen Batteries: Hierarchical Air Electrode Architecture Combined with a Soluble Catalyst. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 4007-4012	3.6	80
159	High-power biofuel cell textiles from woven bistructured carbon nanotube yarns. <i>Nature Communications</i> , <b>2014</b> , 5, 3928	17.4	117
158	Advancements toward a high-power, carbon nanotube, thin-film loudspeaker. <i>Noise Control Engineering Journal</i> , <b>2014</b> , 62, 360-367	0.6	10
157	Automated quantification of neurite outgrowth orientation distributions on patterned surfaces. <i>Journal of Neural Engineering</i> , <b>2014</b> , 11, 046006	5	4
156	Highly Conductive Carbon Nanotube-Graphene Hybrid Yarn. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5859-5865	15.6	95



155	Flexible, ultralight, porous superconducting yarns containing shell-core magnesium diboride-carbon nanotube nanofibers. <i>Advanced Materials</i> , <b>2014</b> , 26, 7510-5	24	17
154	Simple and strong: twisted silver painted nylon artificial muscle actuated by Joule heating <b>2014</b> ,		32
153	Towards ionic liquid-based thermoelectrochemical cells for the harvesting of thermal energy. <i>Electrochimica Acta</i> , <b>2013</b> , 113, 87-93	6.7	58
152	Amyloidogenic peptide/single-walled carbon nanotube composites based on tau-protein-related peptides derived from ACPHF6: preparation and dispersive properties. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 7593-604	3.4	5
151	A new catalyst-embedded hierarchical air electrode for high-performance LiO <sub>2</sub> batteries. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3570	35.4	134
150	Conductive functional bisrolled polymer and carbon nanotube yarns. <i>RSC Advances</i> , <b>2013</b> , 3, 24028	3.7	10
149	Carbon nanotubes: present and future commercial applications. <i>Science</i> , <b>2013</b> , 339, 535-9	33.3	3946
148	Enhanced power and rechargeability of a Li-O <sub>2</sub> battery based on a hierarchical-fibril CNT electrode. <i>Advanced Materials</i> , <b>2013</b> , 25, 1348-52	24	282
147	Niobium Nanowire Yarns and their Application as Artificial Muscles. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4311-4316	15.6	67
146	Ultrafast charge and discharge bisrolled yarn supercapacitors for textiles and microdevices. <i>Nature Communications</i> , <b>2013</b> , 4, 1970	17.4	429
145	Carbon nanotube - reduced graphene oxide composites for thermal energy harvesting applications. <i>Advanced Materials</i> , <b>2013</b> , 25, 6602-6	24	130
144	Increasing the efficiency of thermoacoustic carbon nanotube sound projectors. <i>Nanotechnology</i> , <b>2013</b> , 24, 235501	3.4	44
143	Free-standing nanocomposites with high conductivity and extensibility. <i>Nanotechnology</i> , <b>2013</b> , 24, 1654014	3.4	21
142	Protic ionic liquid-based thermoelectrochemical cells for the harvesting of waste heat.. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1575, 1		7
141	Electrical Power From Nanotube and Graphene Electrochemical Thermal Energy Harvesters. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 477-489	15.6	141
140	Catalytic Twist-Spun Yarns of Nitrogen-Doped Carbon Nanotubes. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 1069-1075	15.6	33
139	Electrically, chemically, and photonically powered torsional and tensile actuation of hybrid carbon nanotube yarn muscles. <i>Science</i> , <b>2012</b> , 338, 928-32	33.3	462
138	Regulation of morphogenesis and neural differentiation of human mesenchymal stem cells using carbon nanotube sheets. <i>Integrative Biology (United Kingdom)</i> , <b>2012</b> , 4, 587-94	3.7	33

137	Reconstructed Ribbon Edges in Thermally Reduced Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 24006-24015	3.8	16
136	Electromechanical actuator with controllable motion, fast response rate, and high-frequency resonance based on graphene and polydiacetylene. <i>ACS Nano</i> , <b>2012</b> , 6, 4508-19	16.7	125
135	Electrical stimulation of myoblast proliferation and differentiation on aligned nanostructured conductive polymer platforms. <i>Advanced Healthcare Materials</i> , <b>2012</b> , 1, 801-8	10.1	55
134	Oriented graphene nanoribbon yarn and sheet from aligned multi-walled carbon nanotube sheets. <i>Advanced Materials</i> , <b>2012</b> , 24, 5695-701	24	64
133	Hybrid nanomembranes for high power and high energy density supercapacitors and their yarn application. <i>ACS Nano</i> , <b>2012</b> , 6, 327-34	16.7	72
132	Hydrogen-fuel-powered bell segments of biomimetic jellyfish. <i>Smart Materials and Structures</i> , <b>2012</b> , 21, 045013	3.4	30
131	Weak-acceptor-polyacrylonitrile/donor-polyaniline core-shell nanofibers: A novel 1D polymeric heterojunction with high photoconductive properties. <i>Organic Electronics</i> , <b>2012</b> , 13, 2319-2325	3.5	10
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