# Ray H Baughman

### List of Publications by Citations

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

#	Paper	IF	Citations
280	Carbon nanotubesthe route toward applications. <i>Science</i> , <b>2002</b> , 297, 787-92	33.3	8570
279	Carbon nanotubes: present and future commercial applications. <i>Science</i> , <b>2013</b> , 339, 535-9	33.3	3946
278	Strong, transparent, multifunctional, carbon nanotube sheets. <i>Science</i> , <b>2005</b> , 309, 1215-9	33.3	1437
277	Multifunctional carbon nanotube yarns by downsizing an ancient technology. <i>Science</i> , <b>2004</b> , 306, 1358-	<b>63</b> 3.3	1421
276	Super-tough carbon-nanotube fibres. <i>Nature</i> , <b>2003</b> , 423, 703	50.4	1256
275	Carbon structures with three-dimensional periodicity at optical wavelengths. <i>Science</i> , <b>1998</b> , 282, 897-9	033.3	891
274	Artificial muscles from fishing line and sewing thread. <i>Science</i> , <b>2014</b> , 343, 868-72	33.3	724
273	Polymer artificial muscles. <i>Materials Today</i> , <b>2007</b> , 10, 30-38	21.8	662
272	Direct electron transfer of glucose oxidase on carbon nanotubes. <i>Nanotechnology</i> , <b>2002</b> , 13, 559-564	3.4	524
271	Negative Poisson's ratios as a common feature of cubic metals. <i>Nature</i> , <b>1998</b> , 392, 362-365	50.4	516
270	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
269	Giant-stroke, superelastic carbon nanotube aerogel muscles. <i>Science</i> , <b>2009</b> , 323, 1575-8	33.3	458
268	Controlled assembly of carbon nanotubes by designed amphiphilic Peptide helices. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 1770-7	16.4	439
267	Ultrafast charge and discharge biscrolled yarn supercapacitors for textiles and microdevices. <i>Nature Communications</i> , <b>2013</b> , 4, 1970	17.4	429
266	Torsional carbon nanotube artificial muscles. <i>Science</i> , <b>2011</b> , 334, 494-7	33.3	407
265	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
264	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, 392	26 <sup>1</sup> 8 <b>1</b> 4	360

### (2015-2010)

263	Elastomeric conductive composites based on carbon nanotube forests. <i>Advanced Materials</i> , <b>2010</b> , 22, 2663-7	24	328	
262	Harvesting waste thermal energy using a carbon-nanotube-based thermo-electrochemical cell. <i>Nano Letters</i> , <b>2010</b> , 10, 838-46	11.5	323	
261	Synergistic toughening of composite fibres by self-alignment of reduced graphene oxide and carbon nanotubes. <i>Nature Communications</i> , <b>2012</b> , 3, 650	17.4	322	
260	Flexible supercapacitor made of carbon nanotube yarn with internal pores. <i>Advanced Materials</i> , <b>2014</b> , 26, 2059-65	24	303	
259	Biscrolling nanotube sheets and functional guests into yarns. <i>Science</i> , <b>2011</b> , 331, 51-5	33.3	292	
258	Enhanced power and rechargeability of a Li-O2 battery based on a hierarchical-fibril CNT electrode. <i>Advanced Materials</i> , <b>2013</b> , 25, 1348-52	24	282	
257	Structure and Dynamics of Carbon Nanoscrolls. <i>Nano Letters</i> , <b>2004</b> , 4, 881-884	11.5	271	
256	Preparation and characterization of individual peptide-wrapped single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 7222-7	16.4	254	
255	V2O5 nanofibre sheet actuators. <i>Nature Materials</i> , <b>2003</b> , 2, 316-9	27	230	
254	Improving the mechanical properties of single-walled carbon nanotube sheets by intercalation of polymeric adhesives. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1682-1684	3.4	227	
253	Electro-optic behavior of liquid-crystal-filled silica opal photonic crystals: effect of liquid-crystal alignment. <i>Physical Review Letters</i> , <b>2001</b> , 86, 4052-5	7.4	219	
252	Electrochemical studies of single-wall carbon nanotubes in aqueous solutions. <i>Journal of Electroanalytical Chemistry</i> , <b>2000</b> , 488, 92-98	4.1	218	
251	Harvesting electrical energy from carbon nanotube yarn twist. Science, 2017, 357, 773-778	33.3	214	
250	Sign Change of Poisson's Ratio for Carbon Nanotube Sheets. <i>Science</i> , <b>2008</b> , 320, 504-7	33.3	208	
249	Materials science. Playing nature's game with artificial muscles. <i>Science</i> , <b>2005</b> , 308, 63-5	33.3	208	
248	Continuous carbon nanotube composite fibers: properties, potential applications, and problems. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 1		203	
247	Crystalline networks with unusual predicted mechanical and thermal properties. <i>Nature</i> , <b>1993</b> , 365, 735	-3374	190	
246	Stretchable, weavable coiled carbon nanotube/MnO2/polymer fiber solid-state supercapacitors. <i>Scientific Reports</i> , <b>2015</b> , 5, 9387	4.9	189	

245	Thermal conductivity of multi-walled carbon nanotube sheets: radiation losses and quenching of phonon modes. <i>Nanotechnology</i> , <b>2010</b> , 21, 035709	3.4	175
244	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
243	High-efficiency electrochemical thermal energy harvester using carbon nanotube aerogel sheet electrodes. <i>Nature Communications</i> , <b>2016</b> , 7, 10600	17.4	172
242	Twistable and Stretchable Sandwich Structured Fiber for Wearable Sensors and Supercapacitors. <i>Nano Letters</i> , <b>2016</b> , 16, 7677-7684	11.5	166
241	Importance of aromatic content for peptide/single-walled carbon nanotube interactions. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 12323-8	16.4	165
240	Electromechanical Actuators Based on Graphene and Graphene/Fe3O4 Hybrid Paper. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 3778-3784	15.6	159
239	Thermal transport in MWCNT sheets and yarns. Carbon, 2007, 45, 2880-2888	10.4	153
238	Elastomeric and Dynamic MnO2/CNT CoreBhell Structure Coiled Yarn Supercapacitor. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502119	21.8	148
237	Resonance Raman study of the thermochromic phase transition of a polydiacetylene. <i>Journal of the American Chemical Society</i> , <b>1976</b> , 98, 481-487	16.4	147
236	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
235	Electrical Power From Nanotube and Graphene Electrochemical Thermal Energy Harvesters. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 477-489	15.6	141
234	Woven-Yarn Thermoelectric Textiles. <i>Advanced Materials</i> , <b>2016</b> , 28, 5038-44	24	138
233	Robust cell migration and neuronal growth on pristine carbon nanotube sheets and yarns. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2007</b> , 18, 1245-61	3.5	138
232	Diameter-selective solubilization of single-walled carbon nanotubes by reversible cyclic peptides. Journal of the American Chemical Society, <b>2005</b> , 127, 9512-7	16.4	137
231	A new catalyst-embedded hierarchical air electrode for high-performance LiD2 batteries. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3570	35.4	134
230	Electrochemical Characterization of Single-Walled Carbon Nanotube Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2000</b> , 147, 4580	3.9	134
229	Super-tough MXene-functionalized graphene sheets. <i>Nature Communications</i> , <b>2020</b> , 11, 2077	17.4	132
228	Carbon nanotube - reduced graphene oxide composites for thermal energy harvesting applications.  Advanced Materials, 2013, 25, 6602-6	24	130

## (2006-2012)

227	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
226	Carbon nanotube/graphene nanocomposite as efficient counter electrodes in dye-sensitized solar cells. <i>Nanotechnology</i> , <b>2012</b> , 23, 085201	3.4	125
225	Sheath-run artificial muscles. <i>Science</i> , <b>2019</b> , 365, 150-155	33.3	120
224	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
223	High-power biofuel cell textiles from woven biscrolled carbon nanotube yarns. <i>Nature Communications</i> , <b>2014</b> , 5, 3928	17.4	117
222	High-Performance Biscrolled MXene/Carbon Nanotube Yarn Supercapacitors. <i>Small</i> , <b>2018</b> , 14, e180222	511	114
221	Transparent carbon nanotube sheets as 3-D charge collectors in organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2007</b> , 91, 416-419	6.4	113
220	Fuel-powered artificial muscles. <i>Science</i> , <b>2006</b> , 311, 1580-3	33.3	113
219	Improvement of system capacitance via weavable superelastic biscrolled yarn supercapacitors. <i>Nature Communications</i> , <b>2016</b> , 7, 13811	17.4	111
218	Multifunctional carbon nanotube yarns and transparent sheets: Fabrication, properties, and applications. <i>Physica B: Condensed Matter</i> , <b>2007</b> , 394, 339-343	2.8	109
217	High Power Density Electrochemical Thermocells for Inexpensively Harvesting Low-Grade Thermal Energy. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605652	24	108
216	Electrochemical actuation of carbon nanotube yarns. Smart Materials and Structures, 2007, 16, S243-S24	<b>19</b> .4	108
215	Electron field emission from transparent multiwalled carbon nanotube sheets for inverted field emission displays. <i>Carbon</i> , <b>2010</b> , 48, 41-46	10.4	107
214	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
213	Underwater sound generation using carbon nanotube projectors. <i>Nano Letters</i> , <b>2010</b> , 10, 2374-80	11.5	106
212	Structural model for dry-drawing of sheets and yarns from carbon nanotube forests. <i>ACS Nano</i> , <b>2011</b> , 5, 985-93	16.7	105
211	Hybrid carbon nanotube yarn artificial muscle inspired by spider dragline silk. <i>Nature Communications</i> , <b>2014</b> , 5, 3322	17.4	102
210	Pool Boiling Experiments on Multiwalled Carbon Nanotube (MWCNT) Forests. <i>Journal of Heat Transfer</i> , <b>2006</b> , 128, 1335-1342	1.8	101

209	A laser Raman study of the stress dependence of vibrational frequencies of a monocrystalline polydiacetylene. <i>Journal of Chemical Physics</i> , <b>1977</b> , 66, 2731-2736	3.9	100
208	Spinnable carbon nanotube forests grown on thin, flexible metallic substrates. <i>Carbon</i> , <b>2010</b> , 48, 3621-	36274	99
207	Auxetic materials: avoiding the shrink. <i>Nature</i> , <b>2003</b> , 425, 667	50.4	97
206	Highly Conductive Carbon Nanotube-Graphene Hybrid Yarn. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5859-5865	15.6	95
205	Chemistry. Dangerously seeking linear carbon. <i>Science</i> , <b>2006</b> , 312, 1009-110	33.3	94
204	Ordered Mesoporous Nickel Sphere Arrays for Highly Efficient Electrocatalytic Water Oxidation. <i>ACS Catalysis</i> , <b>2016</b> , 6, 1446-1450	13.1	89
203	Optical, electrical, and electromechanical properties of hybrid graphene/carbon nanotube films. <i>Advanced Materials</i> , <b>2015</b> , 27, 3053-9	24	88
202	Variations of the Geometries and Band Gaps of Single-Walled Carbon Nanotubes and the Effect of Charge Injection. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 6924-6931	3.4	84
201	Dimensional changes as a function of charge injection in single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 15076-80	16.4	82
200	Stretchable Triboelectric Fiber for Self-powered Kinematic Sensing Textile. <i>Scientific Reports</i> , <b>2016</b> , 6, 35153	4.9	82
199	Microscopically Buckled and Macroscopically Coiled Fibers for Ultra-Stretchable Supercapacitors. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602021	21.8	81
198	A reel-wound carbon nanotube polarizer for terahertz frequencies. <i>Nano Letters</i> , <b>2011</b> , 11, 4227-31	11.5	81
197	Laser-like emission in opal photonic crystals. <i>Optics Communications</i> , <b>1999</b> , 162, 241-246	2	81
196	Superior Rechargeability and Efficiency of Lithium Dxygen Batteries: Hierarchical Air Electrode Architecture Combined with a Soluble Catalyst. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 4007-4012	3.6	80
195	Electrochemical Properties of Single-Wall Carbon Nanotube Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, E409	3.9	79
194	Electrochemical quartz crystal microbalance studies of single-wall carbon nanotubes in aqueous and non-aqueous solutions. <i>Electrochimica Acta</i> , <b>2000</b> , 46, 509-517	6.7	78
193	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
192	All-solid-state carbon nanotube torsional and tensile artificial muscles. <i>Nano Letters</i> , <b>2014</b> , 14, 2664-9	11.5	77

### (2015-2008)

191	Multiwalled carbon nanotube sheets as transparent electrodes in high brightness organic light-emitting diodes. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 183506	3.4	75	
190	Compact and low-cost humanoid hand powered by nylon artificial muscles. <i>Bioinspiration and Biomimetics</i> , <b>2017</b> , 12, 026004	2.6	74	
189	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	
188	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	<del>72</del>	
187	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	
186	Electro-reflectance spectra of one-dimensional excitons in polydiacetylene crystals. <i>Chemical Physics</i> , <b>1984</b> , 88, 437-442	2.3	70	
185	Electrochemically Powered, Energy-Conserving Carbon Nanotube Artificial Muscles. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700870	24	69	
184	A Bi-Sheath Fiber Sensor for Giant Tensile and Torsional Displacements. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702134	15.6	68	
183	Fibers of reduced graphene oxide nanoribbons. <i>Nanotechnology</i> , <b>2012</b> , 23, 235601	3.4	68	
182	Niobium Nanowire Yarns and their Application as Artificial Muscles. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4311-4316	15.6	67	
181	Molecular, Supramolecular, and Macromolecular Motors and Artificial Muscles. <i>MRS Bulletin</i> , <b>2009</b> , 34, 671-681	3.2	67	
180	Torsional refrigeration by twisted, coiled, and supercoiled fibers. <i>Science</i> , <b>2019</b> , 366, 216-221	33.3	65	
179	Highly conducting charge-transfer complexes of a processible polymer: poly(p-phenylene sulphide). <i>Journal of the Chemical Society Chemical Communications</i> , <b>1980</b> , 348		65	
178	Efficient, Absorption-Powered Artificial Muscles Based on Carbon Nanotube Hybrid Yarns. <i>Small</i> , <b>2015</b> , 11, 3113-8	11	64	
177	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	
176	The Optical Properties of Porous Opal Crystals Infiltrated with Organic Molecules. <i>Japanese Journal of Applied Physics</i> , <b>1997</b> , 36, L714-L717	1.4	64	
175	Amphiphilic helical peptide enhances the uptake of single-walled carbon nanotubes by living cells. <i>Experimental Biology and Medicine</i> , <b>2007</b> , 232, 1236-44	3.7	64	
174	Flexible, stretchable and weavable piezoelectric fiber. <i>Advanced Engineering Materials</i> , <b>2015</b> , 17, 1270-1	2375	63	

173	Intelligently Actuating Liquid Crystal Elastomer-Carbon Nanotube Composites. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1905063	15.6	62
172	Temperature-independent capacitance of carbon-based supercapacitor from 1100 to 60 LC. <i>Energy Storage Materials</i> , <b>2019</b> , 22, 323-329	19.4	61
171	Ranking the affinity of aromatic residues for carbon nanotubes by using designed surfactant peptides. <i>Journal of Peptide Science</i> , <b>2008</b> , 14, 139-51	2.1	61
170	Fullereneynes: a new family of porous fullerenes. <i>Chemical Physics Letters</i> , <b>1993</b> , 204, 8-14	2.5	61
169	Artificial muscles based on polypyrrole/carbon nanotube laminates. <i>Advanced Materials</i> , <b>2011</b> , 23, 2966	-720	60
168	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
167	Template synthesis of ordered arrays of mesoporous titania spheres. <i>Chemical Communications</i> , <b>2010</b> , 46, 1872-4	5.8	58
166	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
165	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
164	Actuators of individual carbon nanotubes. <i>Current Applied Physics</i> , <b>2002</b> , 2, 311-314	2.6	55
163	Strong, Conductive, Foldable Graphene Sheets by Sequential Ionic and Bridging. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802733	24	53
162	Biomolecule based fiber supercapacitor for implantable device. <i>Nano Energy</i> , <b>2018</b> , 47, 385-392	17.1	52
161	Preparation and electrochemical characterization of porous SWNTPP nanocomposite sheets for supercapacitor applications. <i>Synthetic Metals</i> , <b>2008</b> , 158, 638-641	3.6	51
160	Arbitrarily Shaped Fiber Assemblies from Spun Carbon Nanotube Gel Fibers. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 2918-2924	15.6	50
159	Peptide cross-linking modulated stability and assembly of peptide-wrapped single-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 1734		50
158	Materials science. Muscles made from metal. <i>Science</i> , <b>2003</b> , 300, 268-9	33.3	50
157	Preparation and characterization of hybrid conducting polymer-carbon nanotube yarn. <i>Nanoscale</i> , <b>2012</b> , 4, 940-5	7.7	49
156	Bulk FePt-based nanocomposite magnets with enhanced exchange coupling. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 023908	2.5	48

## (2019-2003)

155	Increased actuation rate of electromechanical carbon nanotube actuators using potential pulses with resistance compensation. <i>Smart Materials and Structures</i> , <b>2003</b> , 12, 549-555	3.4	48	
154	Bio-inspired, Moisture-Powered Hybrid Carbon Nanotube Yarn Muscles. <i>Scientific Reports</i> , <b>2016</b> , 6, 230	<b>16</b> 4.9	47	
153	Au-doped polyacrylonitrile-polyaniline core-shell electrospun nanofibers having high field-effect mobilities. <i>Small</i> , <b>2011</b> , 7, 597-600	11	46	
152	Structure and process-dependent properties of solid-state spun carbon nanotube yarns. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 334221	1.8	46	
151	Fractionation of SWNT/nucleic acid complexes by agarose gel electrophoresis. <i>Nanotechnology</i> , <b>2006</b> , 17, 4263-9	3.4	46	
150	Carbon Nanotube Yarn-Based Glucose Sensing Artificial Muscle. <i>Small</i> , <b>2016</b> , 12, 2085-91	11	45	
149	Increasing the efficiency of thermoacoustic carbon nanotube sound projectors. <i>Nanotechnology</i> , <b>2013</b> , 24, 235501	3.4	44	
148	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	
147	Carbon Nanotube Electroactive Polymer Materials: Opportunities and Challenges. <i>MRS Bulletin</i> , <b>2008</b> , 33, 215-224	3.2	43	
146	NMR, Calorimetric, and Diffraction Study of Molecular Motion in Crystalline Carboranes. <i>Journal of Chemical Physics</i> , <b>1970</b> , 53, 3781-3789	3.9	43	
145	High-strength scalable graphene sheets by freezing stretch-induced alignment. <i>Nature Materials</i> , <b>2021</b> , 20, 624-631	27	42	
144	Directional growth of polypyrrole and polythiophene wires. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 033104	3.4	41	
143	Metal sphere photonic crystals by nanomolding. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 763-4	16.4	41	
142	Biothermal sensing of a torsional artificial muscle. <i>Nanoscale</i> , <b>2016</b> , 8, 3248-53	7.7	40	
141	iGrab: hand orthosis powered by twisted and coiled polymer muscles. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 105048	3.4	39	
140	Alternative nanostructures for thermophones. ACS Nano, 2015, 9, 4743-56	16.7	38	
139	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	
138	Electrodeposition of ⊞MnO/EMnO on Carbon Nanotube for Yarn Supercapacitor. <i>Scientific Reports</i> , <b>2019</b> , 9, 11271	4.9	36	

137	Load transfer between cross-linked walls of a carbon nanotube. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	36
136	Photoinduced Optical Transparency in Dye-Sensitized Solar Cells Containing Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 25125-25131	3.8	35
135	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
134	Polar-Electrode-Bridged Electroluminescent Displays: 2D Sensors Remotely Communicating Optically. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703552	24	34
133	Unipolar stroke, electroosmotic pump carbon nanotube yarn muscles. <i>Science</i> , <b>2021</b> , 371, 494-498	33.3	34
132	Catalytic Twist-Spun Yarns of Nitrogen-Doped Carbon Nanotubes. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 1069-1075	15.6	33
131	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
130	Carbon Nanotube/Platinum (Pt) Sheet as an Improved Cathode for Microbial Fuel Cells. <i>Energy &amp; Energy Fuels</i> , <b>2010</b> , 24, 5897-5902	4.1	33
129	Additive Functionalization and Embroidery for Manufacturing Wearable and Washable Textile Supercapacitors. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910541	15.6	32
128	Weavable asymmetric carbon nanotube yarn supercapacitor for electronic textiles <i>RSC Advances</i> , <b>2018</b> , 8, 13112-13120	3.7	32
127	Simple and strong: twisted silver painted nylon artificial muscle actuated by Joule heating 2014,		32
126	Hydrogen-fuel-powered bell segments of biomimetic jellyfish. <i>Smart Materials and Structures</i> , <b>2012</b> , 21, 045013	3.4	30
125	Mirage effect from thermally modulated transparent carbon nanotube sheets. <i>Nanotechnology</i> , <b>2011</b> , 22, 435704	3.4	27
124	Electrochemical graphene/carbon nanotube yarn artificial muscles. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 286, 237-242	8.5	26
123	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
122	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
121	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
120	Carbon Nanotube Yarn Actuators: An Electrochemical Impedance Model. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, K97	3.9	25

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119	Electrochemically Tuned Properties for Electrolyte-Free Carbon Nanotube Sheets. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2266-2272	15.6	25	
118	Aligned, isotropic and patterned carbon nanotube substrates that control the growth and alignment of Chinese hamster ovary cells. <i>Nanotechnology</i> , <b>2011</b> , 22, 205102	3.4	25	
117	. IEEE/ASME Transactions on Mechatronics, <b>2011</b> , 16, 90-97	5.5	24	
116	Nylon-muscle-actuated robotic finger <b>2015</b> ,		23	
115	Biscrolled Carbon Nanotube Yarn Structured Silver-Zinc Battery. Scientific Reports, 2018, 8, 11150	4.9	23	
114	Large-Stroke Electrochemical Carbon Nanotube/Graphene Hybrid Yarn Muscles. <i>Small</i> , <b>2018</b> , 14, e1801	8 <del>8</del> 3	23	
113	Ag/MnO Composite Sheath-Core Structured Yarn Supercapacitors. Scientific Reports, 2018, 8, 13309	4.9	23	
112	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	
111	Stretchable Fiber Biofuel Cell by Rewrapping Multiwalled Carbon Nanotube Sheets. <i>Nano Letters</i> , <b>2018</b> , 18, 5272-5278	11.5	22	
110	Primary liver cells cultured on carbon nanotube substrates for liver tissue engineering and drug discovery applications. <i>ACS Applied Materials &amp; Discovery applications</i> . <i>ACS Applied Materials &amp; Discovery applications</i> .	9.5	22	
109	Carbon nanotubes lastomer actuator driven electrothermally by low-voltage. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 965-968	5.1	21	
108	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	
107	Free-standing nanocomposites with high conductivity and extensibility. <i>Nanotechnology</i> , <b>2013</b> , 24, 1654	4 <b>3</b> 14	21	
106	Carbon Nanotube Yarns as High Load Actuators and Sensors. <i>Advances in Science and Technology</i> , <b>2008</b> , 61, 65-74	0.1	21	
105	Superconductivity in Pb inverse opal. <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 453, 15-23	1.3	21	
104	Dimensional change as a function of charge injection in graphite intercalation compounds: A density functional theory study. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	21	
103	Optical characteristics of SiO2 photonic band-gap crystal with ferroelectric perovskite oxide. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4440-4442	3.4	21	
102	Wearable Energy Generating and Storing Textile Based on Carbon Nanotube Yarns. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000411	15.6	21	

101	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
100	Bio-inspired Hybrid Carbon Nanotube Muscles. Scientific Reports, <b>2016</b> , 6, 26687	4.9	20
99	Highly stretchable hybrid nanomembrane supercapacitors. <i>RSC Advances</i> , <b>2016</b> , 6, 24756-24759	3.7	20
98	Nanotube network transistors from peptide-wrapped single-walled carbon nanotubes. <i>Small</i> , <b>2005</b> , 1, 820-3	11	20
97	Terahertz surface plasmon polaritons on freestanding multi-walled carbon nanotube aerogel sheets. <i>Optical Materials Express</i> , <b>2012</b> , 2, 782	2.6	19
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94	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
93	Silver Nanowires on Carbon Nanotube Aerogel Sheets for Flexible, Transparent Electrodes. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2019</b> , 11, 32235-32243	9.5	16
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91	Photon drag effect in carbon nanotube yarns. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 231112	3.4	16
90	Three-dimensionally periodic conductive nanostructures: network versus cermet topologies for metallic PBG. <i>Synthetic Metals</i> , <b>2001</b> , 116, 419-426	3.6	16
89	Electrical Properties of a Periodic Porous Carbon Replica of Opal. <i>Japanese Journal of Applied Physics</i> , <b>1999</b> , 38, 4926-4929	1.4	16
88	Diacetylene monomers and polymers with chiral substituents: structure, solid-state polymerization, and properties. <i>Journal of the American Chemical Society</i> , <b>1982</b> , 104, 509-516	16.4	16
87	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
86	Humidity- and Water-Responsive Torsional and Contractile Lotus Fiber Yarn Artificial Muscles. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2021</b> , 13, 6642-6649	9.5	16
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83	A deformable robot with tensegrity structure using nylon artificial muscle <b>2016</b> ,		15
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80	CVD synthesis of carbon-based metallic photonic crystals. <i>Scripta Materialia</i> , <b>1999</b> , 12, 1089-1095		14
79	Retrospective: Richard E. Smalley (1943-2005). <i>Science</i> , <b>2005</b> , 310, 1916	33.3	13
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76	Brazing techniques for the fabrication of biocompatible carbon-based electronic devices. <i>Carbon</i> , <b>2016</b> , 107, 180-189	10.4	12
75	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
74	Orthogonal pattern of spinnable multiwall carbon nanotubes for electromagnetic interference shielding effectiveness. <i>Carbon</i> , <b>2019</b> , 152, 33-39	10.4	11
73	Electrochemical properties of aligned nanotube arrays: basis of new electromechanical actuators <b>2000</b> ,		11
72	The Power of Fiber Twist. Accounts of Chemical Research, 2021, 54, 2624-2636	24.3	11
71	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; Amp; Interfaces</i> , <b>2019</b> , 11, 10862-10873	9.5	10
70	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
69	Conductive functional biscrolled polymer and carbon nanotube yarns. RSC Advances, 2013, 3, 24028	3.7	10
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61	A tough nanofiber hydrogel incorporating ferritin. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 163902	3.4	9
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57	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
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53	Asymmetric crystal topography of diacetylene and polydiacetylene macroscopic single crystals. <i>Journal of Applied Physics</i> , <b>1981</b> , 52, 7129-7135	2.5	8
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50	Architectured materials: Straining to expand entanglements. <i>Nature Materials</i> , <b>2016</b> , 15, 7-8	27	7
49	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
48	Bidirectional Core Sandwich Structure of Reduced Graphene Oxide and Spinnable Multiwalled Carbon Nanotubes for Electromagnetic Interference Shielding Effectiveness. <i>ACS Applied Materials &amp; Materials amp; Interfaces</i> , <b>2020</b> , 12, 46883-46891	9.5	7

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47	Nanotube aerogel sheet flutter for actuation, power generation, and infrasound detection. <i>Scientific Reports</i> , <b>2014</b> , 4, 6105	4.9	6
46	ELECTROPHORETIC FRACTIONATION OF CARBON NANOTUBE DISPERSIONS ON AGAROSE GELS. <i>International Journal of Nanoscience</i> , <b>2007</b> , 06, 1-7	0.6	6
45	Conducting polymer, carbon nanotube, and hybrid actuator materials <b>2001</b> , 4329, 199		6
44	The Structure of the Morpholine Bodophenylacetylene Complex. <i>Journal of Organic Chemistry</i> , <b>1964</b> , 29, 964-965	4.2	6
43	Tensile fatigue behavior of single carbon nanotube yarns. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 11426-	14.432	6
42	Design of a 3D printed lightweight orthotic device based on twisted and coiled polymer muscle: iGrab hand orthosis <b>2017</b> ,		5
41	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
40	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
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38	Automated quantification of neurite outgrowth orientation distributions on patterned surfaces. Journal of Neural Engineering, 2014, 11, 046006	5	4
37	Carbon nanotube foils for electron stripping in tandem accelerators. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 261, 44-48	1.2	4
36	Inverse gold photonic crystals and conjugated polymer coated opals for functional materials. <i>Physica B: Condensed Matter</i> , <b>2003</b> , 338, 165-170	2.8	4
35	Electrochemically driven actuators from conducting polymers, hydrogels, and carbon nanotubes <b>2001</b> ,		4
34	Chapter 13:Bio-inspired Polymer Artificial Muscles. <i>RSC Polymer Chemistry Series</i> , <b>2016</b> , 429-459	1.3	4
33	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
32	Carbon nanotube yarns: sensors, actuators, and current carriers 2008,		3
31	Graphyne nanotubes: New Families of Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 739, 561		3
30	Fabrication, morphology, and actuation from novel single-wall carbon nanotube/Nafion composites <b>2002</b> ,		3

29	Structure, properties, and thermodynamics of poly(carbon dichalcogenides). <i>Macromolecules</i> , <b>1988</b> , 21, 1832-1838	5.5	3
28	Tensile actuators of carbon nanotube coiled yarn based on polydiacetylenepluronic copolymers as temperature indicators. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 075021	3.4	3
27	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
26	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
25	More powerful twistron carbon nanotube yarn mechanical energy harvesters <i>Advanced Materials</i> , <b>2022</b> , e2201826	24	3
24	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
23	Subwoofer and nanotube butterfly acoustic flame extinction. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 29LT01	3	2
22	Sample modulated Raman spectroscopy and frequency modulated visible lightresonance Raman spectrum of a polydiacetylene fiber. <i>Review of Scientific Instruments</i> , <b>1978</b> , 49, 1725	1.7	2
21	Carbon Nanotube Actuators: Synthesis, Properties, and Performance261-295		2
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16	Simulation of surface asperities on a carbon fiber using molecular dynamics and fourier series decomposition to predict interfacial shear strength in polymer matrix composites. <i>Composite Interfaces</i> ,1-24	2.3	1
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14	Artificial Muscle: Carbon Nanotube Yarn-Based Glucose Sensing Artificial Muscle (Small 15/2016). Small, <b>2016</b> , 12, 2100-2100	11	1
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11	Shaping nanomaterials by short electrical pulses. <i>Nanotechnology</i> , <b>2020</b> , 31, 365302	3.4	О
10	Electrothermally Driven Carbon-Based Materials as EAPs: Fundamentals and Device Configurations <b>2016</b> , 455-470		
9	Electrochemically Driven Carbon-Based Materials as EAPs: Fundamentals and Device Configurations <b>2016</b> , 439-454		
8	Electrothermally Driven Carbon-Based Materials as EAPs: Fundamentals and Device Configurations <b>2016</b> , 1-16		
7	Carbon Nanotube Yarn Actuators: An Electrochemical Impedance Model. <i>ECS Transactions</i> , <b>2008</b> , 13, 13-27	1	
6	Optical Fiber Switch Based on Carbon Nanotube Actuation. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 772, 1021		
5	AFM Measurements of Long, Isolated Single-Walled Carbon Nanotubes Wrapped with Peptide. <i>Microscopy and Microanalysis</i> , <b>2004</b> , 10, 138-139	0.5	
4	Hydrogen Storage in Carbon Nanoscrolls: A Molecular Dynamics Study. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 885, 1		
3	Electrodeposition of Three-Dimensionally Periodic Metal Meshes and Spheres. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 636, 9161		
2	Electrochemically Driven Carbon-Based Materials as EAPs: Fundamentals and Device Configurations <b>2016</b> , 1-16		
1	Understanding the low frequency response of carbon nanotube thermoacoustic projectors. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 498, 115940	3.9	