

Philip D Bradford

List of Publications by Citations

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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.

59 papers	2,040 citations	25 h-index	44 g-index
63 ext. papers	2,293 ext. citations	7.4 avg, IF	4.95 L-index

#	Paper	IF	Citations
59	Aligned carbon nanotube-silicon sheets: a novel nano-architecture for flexible lithium ion battery electrodes. <i>Advanced Materials</i> , 2013 , 25, 5109-14	24	192
58	Carbon nanotube yarn strain sensors. <i>Nanotechnology</i> , 2010 , 21, 305502	3.4	177
57	A novel approach to fabricate high volume fraction nanocomposites with long aligned carbon nanotubes. <i>Composites Science and Technology</i> , 2010 , 70, 1980-1985	8.6	162
56	Effect of CVD carbon coatings on Si@CNF composite as anode for lithium-ion batteries. <i>Nano Energy</i> , 2013 , 2, 976-986	17.1	112
55	Mechanical and electrical property improvement in CNT/Nylon composites through drawing and stretching. <i>Composites Science and Technology</i> , 2011 , 71, 1677-1683	8.6	106
54	Producing superior composites by winding carbon nanotubes onto a mandrel under a poly(vinyl alcohol) spray. <i>Carbon</i> , 2011 , 49, 4786-4791	10.4	100
53	Aligned carbon nanotube sheet high efficiency particulate air filters. <i>Carbon</i> , 2013 , 64, 295-304	10.4	83
52	Tuning the compressive mechanical properties of carbon nanotube foam. <i>Carbon</i> , 2011 , 49, 2834-2841	10.4	80
51	Sulfur gradient-distributed CNF composite: a self-inhibiting cathode for binder-free lithium-sulfur batteries. <i>Chemical Communications</i> , 2014 , 50, 10277-80	5.8	71
50	Remarkably enhanced thermal transport based on a flexible horizontally-aligned carbon nanotube array film. <i>Scientific Reports</i> , 2016 , 6, 21014	4.9	54
49	Chamber-confined silicon-carbon nanofiber composites for prolonged cycling life of Li-ion batteries. <i>Nanoscale</i> , 2014 , 6, 7489-95	7.7	52
48	Hierarchical multi-component nanofiber separators for lithium polysulfide capture in lithium-sulfur batteries: an experimental and molecular modeling study. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13572-13581	13.2	51
47	Carbon nanotube yarn and 3-D braid composites. Part I: Tensile testing and mechanical properties analysis. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010 , 41, 230-237	8.4	50
46	Strong and Conductive Dry Carbon Nanotube Films by Microcombing. <i>Small</i> , 2015 , 11, 3830-6	11	45
45	Nanosized Ge@CNF, Ge@C@CNF and Ge@CNF@C composites via chemical vapour deposition method for use in advanced lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 253, 366-372	8.9	45
44	Engineering biorefinery residues from loblolly pine for supercapacitor applications. <i>Carbon</i> , 2017 , 120, 304-312	10.4	42
43	Mechanical and electrical properties of aligned carbon nanotube/carbon matrix composites. <i>Carbon</i> , 2014 , 75, 307-313	10.4	38

42	Aligned carbon nanotube sheet piezoresistive strain sensors. <i>Smart Materials and Structures</i> , 2015 , 24, 095004	3.4	35
41	Ultralight anisotropic foams from layered aligned carbon nanotube sheets. <i>Nanoscale</i> , 2015 , 7, 17038-47	7.7	34
40	Strain sensing in composites using aligned carbon nanotube sheets embedded in the interlaminar region. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 90, 536-548	8.4	34
39	Carbon nanotube sheet electrodes for anisotropic actuation of dielectric elastomers. <i>Carbon</i> , 2015 , 89, 113-120	10.4	30
38	Conformal atomic layer deposition of alumina on millimeter tall, vertically-aligned carbon nanotube arrays. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19135-43	9.5	30
37	Electrical Conductivity Study of Carbon Nanotube Yarns, 3-D Hybrid Braids and their Composites. <i>Journal of Composite Materials</i> , 2008 , 42, 1533-1545	2.7	30
36	Poly(vinyl alcohol) reinforced with large-diameter carbon nanotubes via spray winding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012 , 43, 587-592	8.4	29
35	Structural annealing of carbon coated aligned multi-walled carbon nanotube sheets. <i>Carbon</i> , 2014 , 79, 113-122	10.4	28
34	Pyrolytic-carbon coating in carbon nanotube foams for better performance in supercapacitors. <i>Journal of Power Sources</i> , 2017 , 343, 492-501	8.9	23
33	Carbon nanotube shear-pressed sheet interleaves for Mode I interlaminar fracture toughness enhancement. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 80, 127-137	8.4	23
32	Compressive piezoresistive behavior of carbon nanotube sheets embedded in woven glass fiber reinforced composites. <i>Composites Part B: Engineering</i> , 2017 , 116, 459-470	10	22
31	Real-time impact damage sensing and localization in composites through embedded aligned carbon nanotube sheets. <i>Composites Part B: Engineering</i> , 2019 , 162, 522-531	10	21
30	High performance carbon nanotube--polymer nanofiber hybrid fabrics. <i>Nanoscale</i> , 2015 , 7, 16744-54	7.7	20
29	Radial growth of multi-walled carbon nanotubes in aligned sheets through cyclic carbon deposition and graphitization. <i>Carbon</i> , 2017 , 111, 411-418	10.4	19
28	Microcombing enables high-performance carbon nanotube composites. <i>Composites Science and Technology</i> , 2016 , 123, 92-98	8.6	18
27	Coating alumina on catalytic iron oxide nanoparticles for synthesizing vertically aligned carbon nanotube arrays. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4180-4	9.5	17
26	Carbon nanotube yarn and 3-D braid composites. Part II: Dynamic mechanical analysis. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010 , 41, 238-246	8.4	16
25	In-situ monitoring of woven glass fiber reinforced composites under flexural loading through embedded aligned carbon nanotube sheets. <i>Journal of Composite Materials</i> , 2018 , 52, 2777-2788	2.7	15

24	Copper-encapsulated vertically aligned carbon nanotube arrays. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10774-81	9.5	15
23	Iron-on carbon nanotube (CNT) thin films for biosensing E-Textile applications. <i>Carbon</i> , 2020 , 168, 673-683	10.4	13
22	Enhanced anisotropic response of dielectric elastomer actuators with microcombed and etched carbon nanotube sheet electrodes. <i>Carbon</i> , 2017 , 120, 366-373	10.4	12
21	Hybrid Carbon Nanotube Fabrics with Sacrificial Nanofibers for Flexible High Performance Lithium-Ion Battery Anodes. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A473-A479	3.9	12
20	Woven Glass Fiber Composites with Aligned Carbon Nanotube Sheet Interlayers. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-9	3.2	10
19	Ultralight Interconnected Metal Oxide Nanotube Networks. <i>Small</i> , 2016 , 12, 2432-8	11	10
18	Investigation of microcombing parameters in enhancing the properties of carbon nanotube yarns. <i>Materials and Design</i> , 2017 , 134, 181-187	8.1	9
17	High temperature carbon nanotube Nanofiber hybrid filters. <i>Separation and Purification Technology</i> , 2020 , 236, 116255	8.3	9
16	Strong and resilient alumina nanotube and CNT/alumina hybrid foams with tuneable elastic properties. <i>RSC Advances</i> , 2017 , 7, 27923-27931	3.7	8
15	Low density, three-dimensionally interconnected carbon nanotube/silicon carbide nanocomposites for thermal protection applications. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 233-243	6	8
14	Ion Beam Modification of Carbon Nanotube Yarn in Air and Vacuum. <i>Materials</i> , 2017 , 10,	3.5	5
13	Fabrication of scalable, aligned and low density carbon nanotube/silicon carbide hybrid foams by polysilazane infiltration and pyrolysis. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 3303-3313	6	4
12	Laser-etch patterning of metal oxide coated carbon nanotube 3D architectures. <i>Nanotechnology</i> , 2018 , 29, 335302	3.4	3
11	An intermetallic Fe ₂ Zr catalyst used for growing long carbon nanotube arrays. <i>Materials Letters</i> , 2010 , 64, 1947-1950	3.3	3
10	Modifying the morphology and properties of aligned CNT foams through secondary CNT growth. <i>Nanotechnology</i> , 2018 , 29, 295602	3.4	3
9	Highly anisotropic magneto-transport and field orientation dependent oscillations in aligned carbon nanotube/epoxy composites. <i>Applied Physics Letters</i> , 2017 , 111, 263102	3.4	2
8	Aligned Carbon Nanotube Composite Prepregs 2014 , 649-670		2
7	Length-dependent carbon nanotube film structures and mechanical properties. <i>Nanotechnology</i> , 2021 , 32,	3.4	2

6	AgNP/crystalline PANI/EBP-composite-based supercapacitor electrode with internal chemical interactions. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 48164	2.9	1
5	Ultrasonic Lamb wave measurement sensitivity of aligned carbon nanotube coated fiber Bragg grating. <i>JPhys Photonics</i> , 2020 , 2, 014002	2.5	1
4	Understanding the role of bond point strain in the mechanical response of nonwoven polypropylene materials. <i>Journal of Composite Materials</i> ,002199832210873	2.7	1
3	High-Performance Composites Produced from Dry-Processable Multi-Walled Carbon Nanotubes 2017 , 3-27		
2	Microfluidic Behavior of Alumina Nanotube-Based Pathways within Hydrophobic CNT Barriers. <i>Langmuir</i> , 2020 , 36, 8792-8799	4	
1	6.9 Composites Based on Long-Aligned Carbon Nanotubes 2018 , 230-247		