Philip D Bradford

List of Publications by Year in Descending Order

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	Length-dependent carbon nanotube film structures and mechanical properties. *Nanotechnology*, **2021**, 32,	3.4	2
58	Fabrication of scalable, aligned and low density carbon nanotube/silicon carbide hybrid foams by polysilazane infiltration and pyrolysis. *Journal of the European Ceramic Society*, **2021**, 41, 3303-3313	6	4
57	Low density, three-dimensionally interconnected carbon nanotube/silicon carbide nanocomposites for thermal protection applications. *Journal of the European Ceramic Society*, **2021**, 41, 233-243	6	8
56	Iron-on carbon nanotube (CNT) thin films for biosensing E-Textile applications. *Carbon*, **2020**, 168, 673-683	10.4	13
55	Ultrasonic Lamb wave measurement sensitivity of aligned carbon nanotube coated fiber Bragg grating. *JPhys Photonics*, **2020**, 2, 014002	2.5	1
54	High temperature carbon nanotube Nanofiber hybrid filters. *Separation and Purification Technology*, **2020**, 236, 116255	8.3	9
53	Microfluidic Behavior of Alumina Nanotube-Based Pathways within Hydrophobic CNT Barriers. *Langmuir*, **2020**, 36, 8792-8799	4	
52	AgNP/crystalline PANI/EBP-composite-based supercapacitor electrode with internal chemical interactions. *Journal of Applied Polymer Science*, **2019**, 136, 48164	2.9	1
51	Hybrid Carbon Nanotube Fabrics with Sacrificial Nanofibers for Flexible High Performance Lithium-Ion Battery Anodes. *Journal of the Electrochemical Society*, **2019**, 166, A473-A479	3.9	12
50	Real-time impact damage sensing and localization in composites through embedded aligned carbon nanotube sheets. *Composites Part B: Engineering*, **2019**, 162, 522-531	10	21
49	In-situ monitoring of woven glass fiber reinforced composites under flexural loading through embedded aligned carbon nanotube sheets. *Journal of Composite Materials*, **2018**, 52, 2777-2788	2.7	15
48	Laser-etch patterning of metal oxide coated carbon nanotube 3D architectures. *Nanotechnology*, **2018**, 29, 335302	3.4	3
47	Modifying the morphology and properties of aligned CNT foams through secondary CNT growth. *Nanotechnology*, **2018**, 29, 295602	3.4	3
46	6.9 Composites Based on Long-Aligned Carbon Nanotubes **2018**, 230-247		
45	Pyrolytic-carbon coating in carbon nanotube foams for better performance in supercapacitors. *Journal of Power Sources*, **2017**, 343, 492-501	8.9	23
44	Enhanced anisotropic response of dielectric elastomer actuators with microcombed and etched carbon nanotube sheet electrodes. *Carbon*, **2017**, 120, 366-373	10.4	12
43	Engineering biorefinery residues from loblolly pine for supercapacitor applications. *Carbon*, **2017**, 120, 304-312	10.4	42

42	Strong and resilient alumina nanotube and CNT/alumina hybrid foams with tuneable elastic properties. *RSC Advances*, **2017**, 7, 27923-27931	3.7	8
41	Investigation of microcombing parameters in enhancing the properties of carbon nanotube yarns. *Materials and Design*, **2017**, 134, 181-187	8.1	9
40	High-Performance Composites Produced from Dry-Processable Multi-Walled Carbon Nanotubes **2017**, 3-27		
39	Compressive piezoresistive behavior of carbon nanotube sheets embedded in woven glass fiber reinforced composites. *Composites Part B: Engineering*, **2017**, 116, 459-470	10	22
38	Radial growth of multi-walled carbon nanotubes in aligned sheets through cyclic carbon deposition and graphitization. *Carbon*, **2017**, 111, 411-418	10.4	19
37	Highly anisotropic magneto-transport and field orientation dependent oscillations in aligned carbon nanotube/epoxy composites. *Applied Physics Letters*, **2017**, 111, 263102	3.4	2
36	Ion Beam Modification of Carbon Nanotube Yarn in Air and Vacuum. *Materials*, **2017**, 10,	3.5	5
35	Remarkably enhanced thermal transport based on a flexible horizontally-aligned carbon nanotube array film. *Scientific Reports*, **2016**, 6, 21014	4.9	54
34	Carbon nanotube shear-pressed sheet interleaves for Mode I interlaminar fracture toughness enhancement. *Composites Part A: Applied Science and Manufacturing*, **2016**, 80, 127-137	8.4	23
33	Microcombing enables high-performance carbon nanotube composites. *Composites Science and Technology*, **2016**, 123, 92-98	8.6	18
32	Woven Glass Fiber Composites with Aligned Carbon Nanotube Sheet Interlayers. *Journal of Nanomaterials*, **2016**, 2016, 1-9	3.2	10
31	Ultralight Interconnected Metal Oxide Nanotube Networks. *Small*, **2016**, 12, 2432-8	11	10
30	Strain sensing in composites using aligned carbon nanotube sheets embedded in the interlaminar region. *Composites Part A: Applied Science and Manufacturing*, **2016**, 90, 536-548	8.4	34
29	Hierarchical multi-component nanofiber separators for lithium polysulfide capture in lithium–sulfur batteries: an experimental and molecular modeling study. *Journal of Materials Chemistry A*, **2016**, 4, 13572-13581	13	52
28	Carbon nanotube sheet electrodes for anisotropic actuation of dielectric elastomers. *Carbon*, **2015**, 89, 113-120	10.4	30
27	Strong and Conductive Dry Carbon Nanotube Films by Microcombing. *Small*, **2015**, 11, 3830-6	11	45
26	Ultralight anisotropic foams from layered aligned carbon nanotube sheets. *Nanoscale*, **2015**, 7, 17038-47	7.7	34
25	Aligned carbon nanotube sheet piezoresistive strain sensors. *Smart Materials and Structures*, **2015**, 24, 095004	3.4	35

24	High performance carbon nanotube--polymer nanofiber hybrid fabrics. *Nanoscale*, **2015**, 7, 16744-54	7.7	20
23	Mechanical and electrical properties of aligned carbon nanotube/carbon matrix composites. *Carbon* , **2014**, 75, 307-313	10.4	38
22	Conformal atomic layer deposition of alumina on millimeter tall, vertically-aligned carbon nanotube arrays. *ACS Applied Materials & Interfaces*, **2014**, 6, 19135-43	9.5	30
21	Sulfur gradient-distributed CNF composite: a self-inhibiting cathode for binder-free lithium-sulfur batteries. *Chemical Communications*, **2014**, 50, 10277-80	5.8	71
20	Structural annealing of carbon coated aligned multi-walled carbon nanotube sheets. *Carbon*, **2014**, 79, 113-122	10.4	28
19	Chamber-confined silicon-carbon nanofiber composites for prolonged cycling life of Li-ion batteries. *Nanoscale*, **2014**, 6, 7489-95	7.7	52
18	Aligned Carbon Nanotube Composite Prepregs **2014**, 649-670		2
17	Nanosized Ge@CNF, Ge@C@CNF and Ge@CNF@C composites via chemical vapour deposition method for use in advanced lithium-ion batteries. *Journal of Power Sources*, **2014**, 253, 366-372	8.9	45
16	Aligned carbon nanotube-silicon sheets: a novel nano-architecture for flexible lithium ion battery electrodes. *Advanced Materials*, **2013**, 25, 5109-14	24	192
15	Aligned carbon nanotube sheet high efficiency particulate air filters. *Carbon*, **2013**, 64, 295-304	10.4	83
14	Copper-encapsulated vertically aligned carbon nanotube arrays. *ACS Applied Materials & Interfaces*, **2013**, 5, 10774-81	9.5	15
13	Effect of CVD carbon coatings on Si@CNF composite as anode for lithium-ion batteries. *Nano Energy*, **2013**, 2, 976-986	17.1	112
12	Poly(vinyl alcohol) reinforced with large-diameter carbon nanotubes via spray winding. *Composites Part A: Applied Science and Manufacturing*, **2012**, 43, 587-592	8.4	29
11	Coating alumina on catalytic iron oxide nanoparticles for synthesizing vertically aligned carbon nanotube arrays. *ACS Applied Materials & Interfaces*, **2011**, 3, 4180-4	9.5	17
10	Mechanical and electrical property improvement in CNT/Nylon composites through drawing and stretching. *Composites Science and Technology*, **2011**, 71, 1677-1683	8.6	106
9	Tuning the compressive mechanical properties of carbon nanotube foam. *Carbon*, **2011**, 49, 2834-2841	10.4	80
8	Producing superior composites by winding carbon nanotubes onto a mandrel under a poly(vinyl alcohol) spray. *Carbon*, **2011**, 49, 4786-4791	10.4	100
7	Carbon nanotube yarn strain sensors. *Nanotechnology*, **2010**, 21, 305502	3.4	177

6	Carbon nanotube yarn and 3-D braid composites. Part I: Tensile testing and mechanical properties analysis. *Composites Part A: Applied Science and Manufacturing*, **2010**, 41, 230-237	8.4	50
5	Carbon nanotube yarn and 3-D braid composites. Part II: Dynamic mechanical analysis. *Composites Part A: Applied Science and Manufacturing*, **2010**, 41, 238-246	8.4	16
4	A novel approach to fabricate high volume fraction nanocomposites with long aligned carbon nanotubes. *Composites Science and Technology*, **2010**, 70, 1980-1985	8.6	162
3	An intermetallic Fe$_2$Zr catalyst used for growing long carbon nanotube arrays. *Materials Letters*, **2010**, 64, 1947-1950	3.3	3
2	Electrical Conductivity Study of Carbon Nanotube Yarns, 3-D Hybrid Braids and their Composites. *Journal of Composite Materials*, **2008**, 42, 1533-1545	2.7	30
1	Understanding the role of bond point strain in the mechanical response of nonwoven polypropylene materials. *Journal of Composite Materials*,002199832210873	2.7	1