

Alan B Dalton

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122
papers

8,226
citations

41
h-index

90
g-index

142
ext. papers

8,884
ext. citations

8.4
avg, IF

5.3
L-index

#	Paper	IF	Citations
122	Super-tough carbon-nanotube fibres. <i>Nature</i> , 2003 , 423, 703	50.4	1256
121	Sensitive, high-strain, high-rate bodily motion sensors based on graphene-rubber composites. <i>ACS Nano</i> , 2014 , 8, 8819-30	16.7	588
120	A Composite from Poly(m-phenylenevinylene-co-2,5-dioctoxy-p-phenylenevinylene) and Carbon Nanotubes: A Novel Material for Molecular Optoelectronics. <i>Advanced Materials</i> , 1998 , 10, 1091-1093	24	539
119	Controlled assembly of carbon nanotubes by designed amphiphilic Peptide helices. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1770-7	16.4	439
118	Percolation-dominated conductivity in a conjugated-polymer-carbon-nanotube composite. <i>Physical Review B</i> , 1998 , 58, R7492-R7495	3.3	362
117	Stabilized Nanoporous Metals by Dealloying Ternary Alloy Precursors. <i>Advanced Materials</i> , 2008 , 20, 4883-4886	24	263
116	Preparation and characterization of individual peptide-wrapped single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 7222-7	16.4	254
115	Electrospun MEH-PPV/SBA-15 composite nanofibers using a dual syringe method. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14531-8	16.4	242
114	Selective Interaction of a Semiconjugated Organic Polymer with Single-Wall Nanotubes. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 10012-10016	3.4	234
113	Improving the mechanical properties of single-walled carbon nanotube sheets by intercalation of polymeric adhesives. <i>Applied Physics Letters</i> , 2003 , 82, 1682-1684	3.4	227
112	A Microscopic and Spectroscopic Study of Interactions between Carbon Nanotubes and a Conjugated Polymer. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2210-2216	3.4	204
111	Continuous carbon nanotube composite fibers: properties, potential applications, and problems. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1		203
110	Importance of aromatic content for peptide/single-walled carbon nanotube interactions. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12323-8	16.4	165
109	Phase Separation of Carbon Nanotubes and Turbostratic Graphite Using a Functional Organic Polymer. <i>Advanced Materials</i> , 2000 , 12, 213-216	24	162
108	Are carbon nanotubes a natural solution? Applications in biology and medicine. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1870-91	9.5	143
107	Diameter-selective solubilization of single-walled carbon nanotubes by reversible cyclic peptides. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9512-7	16.4	137
106	Selective Interaction in a Polymer/Single-Wall Carbon Nanotube Composite. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 478-482	3.4	120

105	Waterborne, Nanocomposite Pressure-Sensitive Adhesives with High Tack Energy, Optical Transparency, and Electrical Conductivity. <i>Advanced Materials</i> , 2006 , 18, 2730-2734	24	113
104	Highly Conducting Carbon Nanotube/Polyethyleneimine Composite Fibers. <i>Advanced Materials</i> , 2005 , 17, 1064-1067	24	110
103	Characterization of the Interaction of Gamma Cyclodextrin with Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2003 , 3, 843-846	11.5	103
102	Effect of electron-donating and electron-withdrawing groups on peptide/single-walled carbon nanotube interactions. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14724-32	16.4	85
101	A soluble and highly functional polyaniline-carbon nanotube composite. <i>Nanotechnology</i> , 2005 , 16, S150-S154	3.6	85
100	Physical Doping of a Conjugated Polymer with Carbon Nanotubes. <i>Synthetic Metals</i> , 1999 , 102, 1174-1175	3.6	84
99	Evolution and evaluation of the polymer/nanotube composite. <i>Synthetic Metals</i> , 1999 , 103, 2559-2562	3.6	80
98	Carbon nanotubes: a promising tissue engineering approach for in vitro cultivation & differentiation of primary canine articular chondrocytes. <i>BMC Musculoskeletal Disorders</i> , 2015 , 16,	2.8	78
97	Locking carbon nanotubes in confined lattice geometries--a route to low percolation in conducting composites. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 6395-400	3.4	76
96	Hierarchical Self-Assembly of Peptide-Coated Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2004 , 14, 1147-1151	15.6	65
95	Amphiphilic helical peptide enhances the uptake of single-walled carbon nanotubes by living cells. <i>Experimental Biology and Medicine</i> , 2007 , 232, 1236-44	3.7	64
94	Ranking the affinity of aromatic residues for carbon nanotubes by using designed surfactant peptides. <i>Journal of Peptide Science</i> , 2008 , 14, 139-51	2.1	61
93	Microscopy studies of nanotube-conjugated polymer interactions. <i>Synthetic Metals</i> , 2001 , 121, 1225-1226	3.6	60
92	Multifunctional Carbon Nanotube Composite Fibers. <i>Advanced Engineering Materials</i> , 2004 , 6, 801-804	3.5	55
91	Observation of site selective binding in a polymer nanotube composite. <i>Journal of Materials Science Letters</i> , 2000 , 19, 2239-2241		55
90	Direct x-ray detection with conjugated polymer devices. <i>Applied Physics Letters</i> , 2007 , 91, 033509	3.4	54
89	Carbon-nanotube-based materials for protein crystallization. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 1203-10	9.5	52
88	Arbitrarily Shaped Fiber Assemblies from Spun Carbon Nanotube Gel Fibers. <i>Advanced Functional Materials</i> , 2007 , 17, 2918-2924	15.6	50

87	Peptide cross-linking modulated stability and assembly of peptide-wrapped single-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2005 , 15, 1734		50
86	Influence of acoustic cavitation on the controlled ultrasonic dispersion of carbon nanotubes. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 15141-50	3.4	49
85	Laser patterning of transparent conductive metal nanowire coatings: simulation and experiment. <i>Nanoscale</i> , 2014 , 6, 946-52	7.7	46
84	Optical Spectroscopy of Isolated and Aggregate Hexabenzocoronene Derivatives: A Study of Self-Assembling Molecular Nanowires. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 37-43	3.4	46
83	A functional conjugated polymer to process, purify and selectively interact with single wall carbon nanotubes. <i>Synthetic Metals</i> , 2001 , 121, 1217-1218	3.6	45
82	Exciton dynamics in single-walled nanotubes: Transient photoinduced dichroism and polarized emission. <i>Physical Review B</i> , 2005 , 71,	3.3	42
81	Photoinduced charge transfer in poly(p-phenylene vinylene) derivatives and carbon nanotube/C60 composites. <i>Physica B: Condensed Matter</i> , 2003 , 338, 366-369	2.8	40
80	The fine dispersion of functionalized carbon nanotubes in acrylic latex coatings. <i>Progress in Organic Coatings</i> , 2006 , 57, 91-97	4.8	39
79	Controlling the optical properties of a conjugated co-polymer through variation of backbone isomerism and the introduction of carbon nanotubes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001 , 144, 31-41	4.7	37
78	Complex nano-assemblies of polymers and carbon nanotubes. <i>Nanotechnology</i> , 2001 , 12, 187-190	3.4	35
77	Optical Absorption and Fluorescence of a Multi-walled Nanotube-Polymer Composite. <i>Synthetic Metals</i> , 1999 , 102, 1176-1177	3.6	34
76	Insulator-Conductor Type Transitions in Graphene-Modified Silver Nanowire Networks: A Route to Inexpensive Transparent Conductors. <i>Advanced Functional Materials</i> , 2014 , 24, 7580-7587	15.6	32
75	Electron paramagnetic resonance as a quantitative tool for the study of multiwalled carbon nanotubes. <i>Journal of Chemical Physics</i> , 2000 , 113, 9788-9793	3.9	32
74	A Molecular Mechanism for Toughening and Strengthening Waterborne Nanocomposites. <i>Advanced Materials</i> , 2008 , 20, 90-94	24	31
73	Synthesis of SiC nanorods from sheets of single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2002 , 359, 397-402	2.5	31
72	High performance transparent multi-touch sensors based on silver nanowires. <i>Materials Today Communications</i> , 2016 , 7, 42-50	2.5	30
71	Mechanochromic and Thermochromic Sensors Based on Graphene Infused Polymer Opals. <i>Advanced Functional Materials</i> , 2020 , 30, 2002473	15.6	29
70	Spontaneous exfoliation of single-walled carbon nanotubes dispersed using a designed amphiphilic peptide. <i>Biomacromolecules</i> , 2008 , 9, 598-602	6.9	29

69	Size selection of liquid-exfoliated 2D nanosheets. <i>2D Materials</i> , 2019 , 6, 031002	5.9	26
68	Importance of Molecular Friction in a Soft Polymer/Nanotube Nanocomposite. <i>Macromolecules</i> , 2008 , 41, 7656-7661	5.5	26
67	Electrochemically Tuned Properties for Electrolyte-Free Carbon Nanotube Sheets. <i>Advanced Functional Materials</i> , 2009 , 19, 2266-2272	15.6	25
66	Aligned, isotropic and patterned carbon nanotube substrates that control the growth and alignment of Chinese hamster ovary cells. <i>Nanotechnology</i> , 2011 , 22, 205102	3.4	25
65	Spectroscopic investigation of conjugated polymer/single-walled carbon nanotube interactions. <i>Chemical Physics Letters</i> , 2001 , 350, 27-32	2.5	25
64	Growth and proliferation of human embryonic stem cells on fully synthetic scaffolds based on carbon nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2598-603	9.5	24
63	Considerations for spectroscopy of liquid-exfoliated 2D materials: emerging photoluminescence of N-methyl-2-pyrrolidone. <i>Scientific Reports</i> , 2017 , 7, 16706	4.9	24
62	Friction and Adhesion of Different Structural Defects of Graphene. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44614-44623	9.5	23
61	Primary liver cells cultured on carbon nanotube substrates for liver tissue engineering and drug discovery applications. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10373-80	9.5	22
60	Understanding Solvent Spreading for Langmuir Deposition of Nanomaterial Films: A Hansen Solubility Parameter Approach. <i>Langmuir</i> , 2017 , 33, 14766-14771	4	21
59	Cobalt-Based Superparamagnetic Nanorings. <i>Nano Letters</i> , 2004 , 4, 1365-1371	11.5	21
58	Hexagonal Boron Nitride for Sulfur Corrosion Inhibition. <i>ACS Nano</i> , 2020 , 14, 14809-14819	16.7	21
57	Colloid-Assisted Self-Assembly of Robust, Three-Dimensional Networks of Carbon Nanotubes over Large Areas. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 609-15	4.8	20
56	Predicting the optoelectronic properties of nanowire films based on control of length polydispersity. <i>Scientific Reports</i> , 2016 , 6, 25365	4.9	20
55	Density controlled conductivity of pristine graphene films. <i>Carbon</i> , 2013 , 64, 435-443	10.4	18
54	Conjugated Polymer Nanoparticle/Graphene Oxide Charge-Transfer Complexes. <i>Advanced Functional Materials</i> , 2018 , 28, 1707548	15.6	17
53	Silver Nanowires on Carbon Nanotube Aerogel Sheets for Flexible, Transparent Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32235-32243	9.5	16
52	Polyazomethine/carbon nanotube composites. <i>Materials Science and Engineering C</i> , 2006 , 26, 1198-1201	8.3	15

51	Structural Defects Modulate Electronic and Nanomechanical Properties of 2D Materials. <i>ACS Nano</i> , 2021 , 15, 2520-2531	16.7	15
50	Multifunctional, biocompatible and pH-responsive carbon nanotube- and graphene oxide/tectomer hybrid composites and coatings. <i>Nanoscale</i> , 2017 , 9, 7791-7804	7.7	14
49	Systematic trends in the synthesis of (meta-phenylene vinylene) copolymers. <i>Synthetic Metals</i> , 2001 , 119, 151-152	3.6	14
48	Carbon nanotubes buckypaper radiation studies for medical physics applications. <i>Applied Radiation and Isotopes</i> , 2016 , 117, 106-110	1.7	13
47	Measurement of nanotube content in pyrolytically generated carbon soot. <i>Chemical Communications</i> , 2000 , 2001-2002	5.8	13
46	Biophysical interactions between pancreatic cancer cells and pristine carbon nanotube substrates: Potential application for pancreatic cancer tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 1637-1644	3.5	13
45	Functional liquid structures by emulsification of graphene and other two-dimensional nanomaterials. <i>Nanoscale</i> , 2018 , 10, 1582-1586	7.7	12
44	Solubility and purity of nanotubes in arc discharge carbon powder. <i>Synthetic Metals</i> , 2001 , 121, 1229-12306	3.6	12
43	Selective Mechanical Transfer Deposition of Langmuir Graphene Films for High-Performance Silver Nanowire Hybrid Electrodes. <i>Langmuir</i> , 2017 , 33, 12038-12045	4	11
42	Percolating Metallic Structures Templated on Laser-Deposited Carbon Nanofoams Derived from Graphene Oxide: Applications in Humidity Sensing. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1828-1835	5.6	11
41	Two-Dimensional, pH-Responsive Oligoglycine-Based Nanocarriers. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1913-21	9.5	11
40	Large-Scale Surfactant Exfoliation of Graphene and Conductivity-Optimized Graphite Enabling Wireless Connectivity. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000284	6.8	10
39	Graphene-based printable conductors for cyclable strain sensors on elastomeric substrates. <i>Carbon</i> , 2020 , 169, 25-31	10.4	10
38	Pristine carbon nanotube scaffolds for the growth of chondrocytes. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 8178-8182	7.3	9
37	Finite-size scaling in silver nanowire films: design considerations for practical devices. <i>Nanoscale</i> , 2016 , 8, 13701-7	7.7	8
36	Ultrasensitive Strain Gauges Enabled by Graphene-Stabilized Silicone Emulsions. <i>Advanced Functional Materials</i> , 2020 , 30, 2002433	15.6	7
35	Atomic Layers of Graphene for Microbial Corrosion Prevention. <i>ACS Nano</i> , 2021 , 15, 447-454	16.7	7
34	Edge-Selective Gas Detection Using Langmuir Films of Graphene Platelets. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21740-21745	9.5	7

33	A Composite from Poly(m-phenylenevinylene-co-2,5-dioctoxy-p-phenylenevinylene) and Carbon Nanotubes: A Novel Material for Molecular Optoelectronics 1998 , 10, 1091		7
32	Importance of capillary forces in the assembly of carbon nanotubes in a polymer colloid lattice. <i>Langmuir</i> , 2012 , 28, 8266-74	4	6
31	Laser-Based Texturing of Graphene to Locally Tune Electrical Potential and Surface Chemistry. <i>ACS Omega</i> , 2018 , 3, 17000-17009	3.9	6
30	Enhanced thermal actuation in thin polymer films through particle nano-squeezing by carbon nanotube belts. <i>Advanced Materials</i> , 2010 , 22, 5310-4	24	5
29	Ultrafast exciton dynamics in isolated single-walled nanotubes. <i>Synthetic Metals</i> , 2005 , 155, 254-257	3.6	5
28	Functionalization of Silver Nanowire Transparent Electrodes with Self-Assembled 2-Dimensional Tectomer Nanosheets. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3903-3912	5.6	4
27	Charge Transfer Hybrids of Graphene Oxide and the Intrinsically Microporous Polymer PIM-1. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31191-31199	9.5	4
26	Regenerated Silk and Carbon Nanotubes Dough as Masterbatch for High Content Filled Nanocomposites. <i>Frontiers in Materials</i> , 2019 , 6,	4	4
25	Surfactant-free liquid-exfoliated copper hydroxide nanocuboids for non-enzymatic electrochemical glucose detection. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 7733-7739	7.3	4
24	Radiation exposure in pediatric patients during micturating cystourethrography procedures. <i>Applied Radiation and Isotopes</i> , 2016 , 117, 36-41	1.7	4
23	Controlled physical properties and growth mechanism of manganese silicide nanorods. <i>Journal of Alloys and Compounds</i> , 2021 , 851, 156693	5.7	4
22	AFM and Raman study of graphene deposited on silicon surfaces nanostructured by ion beam irradiation. <i>Journal of Microscopy</i> , 2020 , 280, 183-193	1.9	3
21	Raman Metrics for Molybdenum Disulfide and Graphene Enable Statistical Mapping of Nanosheet Populations. <i>Chemistry of Materials</i> , 2020 , 32, 6213-6221	9.6	3
20	Observation and identification of the molecular triplet in C60 thin films. <i>Chemical Physics Letters</i> , 2001 , 345, 361-366	2.5	3
19	Spectroscopic characterisation of the C60 photo-polymer produced from solution. <i>Synthetic Metals</i> , 2001 , 121, 1111-1112	3.6	3
18	Carbon Nanofoam Supercapacitor Electrodes with Enhanced Performance Using a Water-Transfer Process. <i>ACS Omega</i> , 2018 , 3, 15134-15139	3.9	3
17	Assessment of patient dose and radiogenic risks during endoscopic retrograde cholangiopancreatography. <i>Applied Radiation and Isotopes</i> , 2016 , 117, 65-69	1.7	2
16	Sonochemical edge functionalisation of molybdenum disulfide. <i>Nanoscale</i> , 2019 , 11, 15550-15560	7.7	2

15	Solvent effects on the luminescent properties of conjugated molecules. <i>Synthetic Metals</i> , 2001 , 119, 555-556	3.6	2
14	Free-Standing Graphene Oxide and Carbon Nanotube Hybrid Papers with Enhanced Electrical and Mechanical Performance and Their Synergy in Polymer Laminates. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
13	Laser-Deposited Carbon Aerogel Derived from Graphene Oxide Enables NO-Selective Parts-per-Billion Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39541-39548	9.5	2
12	Polymer of Intrinsic Microporosity (PIM-7) Coating Affects Triphasic Palladium Electrocatalysis. <i>ChemElectroChem</i> , 2019 , 6, 4307-4317	4.3	2
11	Cell-Substrate Interactions Lead to Internalization and Localization of Layered MoS ₂ Nanosheets. <i>ACS Applied Nano Materials</i> , 2021 , 4, 2002-2010	5.6	2
10	Single-wall carbon nanotubes as templates for organic molecules 2003 ,		1
9	Graphene Confers Ultralow Friction on Nanogear Cogs. <i>Small</i> , 2021 , 17, e2104487	11	1
8	Pyrene-functionalized tungsten disulfide as stable resistive photosensor. <i>Materials Advances</i> , 2020 , 1, 2459-2466	3.3	1
7	Langmuir Films of Layered Nanomaterials: Edge Interactions and Cell Culture Applications. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 7184-7193	3.4	1
6	Configurational Effects on Strain and Doping at Graphene-Silver Nanowire Interfaces. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5157	2.6	0
5	Transparent Conductors: Insulator-Conductor Type Transitions in Graphene-Modified Silver Nanowire Networks: A Route to Inexpensive Transparent Conductors (Adv. Funct. Mater. 48/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 7562-7562	15.6	
4	Physical interactions between HiPco SWNTs and semiconjugated polymers 2003 , 4876, 723		
3	AFM Measurements of Long, Isolated Single-Walled Carbon Nanotubes Wrapped with Peptide. <i>Microscopy and Microanalysis</i> , 2004 , 10, 138-139	0.5	
2	Purification and processing of carbon nanotubes using self-assembly and selective interaction with a semiconjugated polymer 2001 , 4468, 112		
1	Purity and Solubility of Nanotubes in Arc Discharge Carbon Powder. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 633, 1361		