

Nicole Grobert

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135
papers

7,701
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47
h-index

86
g-index

145
ext. papers

8,215
ext. citations

8.4
avg, IF

5.43
L-index

#	Paper	IF	Citations
135	Controlled production of aligned-nanotube bundles. <i>Nature</i> , 1997 , 388, 52-55	50.4	690
134	Identification of Electron Donor States in N-Doped Carbon Nanotubes. <i>Nano Letters</i> , 2001 , 1, 457-460	11.5	659
133	Selective Attachment of Gold Nanoparticles to Nitrogen-Doped Carbon Nanotubes. <i>Nano Letters</i> , 2003 , 3, 275-277	11.5	486
132	N-doping and coalescence of carbon nanotubes: synthesis and electronic properties. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, 355-361	2.6	367
131	Carbon nanotubes becoming clean. <i>Materials Today</i> , 2007 , 10, 28-35	21.8	253
130	Carbon Nitride Nanocomposites: Formation of Aligned C _x N _y Nanofibers. <i>Advanced Materials</i> , 1999 , 11, 655-658	24	231
129	Nanotubes in a flash--ignition and reconstruction. <i>Science</i> , 2002 , 296, 705	33.3	221
128	Pyrolytic production of aligned carbon nanotubes from homogeneously dispersed benzene-based aerosols. <i>Chemical Physics Letters</i> , 2001 , 338, 101-107	2.5	186
127	Controlling the orientation, edge geometry, and thickness of chemical vapor deposition graphene. <i>ACS Nano</i> , 2013 , 7, 1351-9	16.7	159
126	Tungsten oxide tree-like structures. <i>Chemical Physics Letters</i> , 1999 , 309, 327-334	2.5	145
125	Graphitic cones in palladium catalysed carbon nanofibres. <i>Chemical Physics Letters</i> , 2001 , 343, 241-250	2.5	138
124	Synthetic routes to nanoscale B _x C _y N _z architectures. <i>Carbon</i> , 2002 , 40, 1665-1684	10.4	136
123	Enhanced Electron Field Emission in B-doped Carbon Nanotubes. <i>Nano Letters</i> , 2002 , 2, 1191-1195	11.5	125
122	Effect of the experimental parameters on the structure of nitrogen-doped carbon nanotubes produced by aerosol chemical vapour deposition. <i>Carbon</i> , 2009 , 47, 30-37	10.4	124
121	Boron- and nitrogen-doped multi-wall carbon nanotubes for gas detection. <i>Carbon</i> , 2014 , 66, 662-673	10.4	112
120	Hysteresis shift in Fe-filled carbon nanotubes due to Γ Fe. <i>Physical Review B</i> , 2002 , 65,	3.3	108
119	Aligned CN _x nanotubes by pyrolysis of ferrocene/C60 under NH ₃ atmosphere. <i>Applied Physics Letters</i> , 2000 , 77, 1807	3.4	107

118	3D Silicon oxide nanostructures: from nanoflowers to radiolaria. <i>Journal of Materials Chemistry</i> , 1998 , 8, 1859-1864		102
117	Heterojunctions between metals and carbon nanotubes as ultimate nanocontacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 4591-5	11.5	100
116	Microstructural investigations on zirconium oxide-carbon nanotube composites synthesized by hydrothermal crystallization. <i>Carbon</i> , 2004 , 42, 1995-1999	10.4	99
115	Comparison of structural changes in nitrogen and boron-doped multi-walled carbon nanotubes. <i>Carbon</i> , 2010 , 48, 3033-3041	10.4	97
114	SiO _x -coating of carbon nanotubes at room temperature. <i>Chemical Physics Letters</i> , 2001 , 339, 41-46	2.5	97
113	Boron-doping effects in carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2000 , 10, 1425-1429		95
112	Production of WS ₂ Nanotubes. <i>Chemistry of Materials</i> , 2000 , 12, 1190-1194	9.6	88
111	Structure, transport and field-emission properties of compound nanotubes: CN _x vs. BNC _x (x). <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 499-507	2.6	82
110	A Simple Route to Silicon-Based Nanostructures. <i>Advanced Materials</i> , 1999 , 11, 844-847	24	81
109	Zipper mechanism of nanotube fusion: theory and experiment. <i>Physical Review Letters</i> , 2004 , 92, 075504	7.4	75
108	Efficient encapsulation of gaseous nitrogen inside carbon nanotubes with bamboo-like structure using aerosol thermolysis. <i>Chemical Physics Letters</i> , 2004 , 396, 167-173	2.5	72
107	Generation of hollow crystalline tungsten oxide fibres. <i>Applied Physics A: Materials Science and Processing</i> , 2000 , 70, 231-233	2.6	71
106	An Alternative Route to Molybdenum Disulfide Nanotubes. <i>Journal of the American Chemical Society</i> , 2000 , 122, 10155-10158	16.4	69
105	SiC _{0.5} BiO _x heterojunctions in nanowires. <i>Journal of Materials Chemistry</i> , 1999 , 9, 3173-3178		68
104	Nonlinear Behavior in the Thermopower of Doped Carbon Nanotubes Due to Strong, Localized States. <i>Nano Letters</i> , 2003 , 3, 839-842	11.5	66
103	Spray deposited fluoropolymer/multi-walled carbon nanotube composite films with high dielectric permittivity at low percolation threshold. <i>Carbon</i> , 2009 , 47, 561-569	10.4	64
102	Direct Measurement of the Surface Energy of Graphene. <i>Nano Letters</i> , 2017 , 17, 3815-3821	11.5	63
101	Probing the bonding in nitrogen-doped graphene using electron energy loss spectroscopy. <i>ACS Nano</i> , 2013 , 7, 7145-50	16.7	60

100	METAL ATOMS IN CARBON NANOTUBES AND RELATED NANOPARTICLES. <i>International Journal of Modern Physics B</i> , 2001 , 15, 4037-4069	1.1	60
99	A novel route to aligned nanotubes and nanofibres using laser-patterned catalytic substrates. <i>Applied Physics A: Materials Science and Processing</i> , 2000 , 70, 175-183	2.6	57
98	Low-Cost Chitosan-Derived N-Doped Carbons Boost Electrocatalytic Activity of Multiwall Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2018 , 28, 1707284	15.6	55
97	Tuning the magnetic properties of iron-filled carbon nanotubes. <i>Carbon</i> , 2012 , 50, 3674-3681	10.4	55
96	Mössbauer Study of Iron-Containing Carbon Nanotubes. <i>Hyperfine Interactions</i> , 2002 , 139/140, 535-542	0.8	55
95	Morphology, structure and growth of WS ₂ nanotubes. <i>Journal of Materials Chemistry</i> , 2000 , 10, 2570-2577		54
94	Fabrication of carbon-nanotube-reinforced glass/ceramic nanocomposites by ultrasonic in situ sol/gel processing. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5344		53
93	Production and State-of-the-Art Characterization of Aligned Nanotubes with Homogeneous BC _x N (1 ≤ x ≤ 5) Compositions. <i>Advanced Materials</i> , 2003 , 15, 1899-1903	24	53
92	Controlling pyridinic, pyrrolic, graphitic, and molecular nitrogen in multi-wall carbon nanotubes using precursors with different N/C ratios in aerosol assisted chemical vapor deposition. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23741-7	3.6	51
91	Tumbling motion of magnetic particles on a magnetic substrate induced by a rotational magnetic field. <i>Physical Review E</i> , 2008 , 78, 021403	2.4	51
90	High-frequency supercapacitors based on doped carbon nanostructures. <i>Carbon</i> , 2018 , 126, 305-312	10.4	47
89	Rapid epitaxy-free graphene synthesis on silicidated polycrystalline platinum. <i>Nature Communications</i> , 2015 , 6, 7536	17.4	45
88	Understanding the conversion mechanism and performance of monodisperse FeF ₂ nanocrystal cathodes. <i>Nature Materials</i> , 2020 , 19, 644-654	27	39
87	H-Driven biocatalytic hydrogenation in continuous flow using enzyme-modified carbon nanotube columns. <i>Chemical Communications</i> , 2017 , 53, 9839-9841	5.8	38
86	Tailoring gas sensing properties of multi-walled carbon nanotubes by in situ modification with Si, P, and N. <i>Carbon</i> , 2012 , 50, 2816-2823	10.4	37
85	Layer-by-layer spray deposition and unzipping of single-wall carbon nanotube-based thin film electrodes for electrochemical capacitors. <i>Carbon</i> , 2013 , 61, 525-536	10.4	34
84	Microstructural characterization of C ₆₀ /carbon nanotube composite flakes. <i>Carbon</i> , 2004 , 42, 1-4	10.4	34
83	In-situ formation of carbon nanotubes in an alumina/carbon nanotube composite by spray pyrolysis. <i>Carbon</i> , 2003 , 41, 2737-2741	10.4	34

82	Carbon Nanotubes as Nanoreactors for Boriding Iron Nanowires. <i>Advanced Materials</i> , 2000 , 12, 1356-1359	10.4	34
81	Aerosol-assisted chemical vapour deposition synthesis of multi-wall carbon nanotubes: I. Mapping the reactor. <i>Carbon</i> , 2013 , 58, 151-158	10.4	33
80	Aerosol-assisted chemical vapour deposition synthesis of multi-wall carbon nanotubes: II. An analytical study. <i>Carbon</i> , 2013 , 58, 159-169	10.4	32
79	Targeted removal of copper foil surface impurities for improved synthesis of CVD graphene. <i>Carbon</i> , 2017 , 122, 207-216	10.4	32
78	Processing and properties of aligned multi-walled carbon nanotube/aluminoborosilicate glass composites made by sol-gel processing. <i>Carbon</i> , 2010 , 48, 2212-2217	10.4	32
77	The structure of 1D CuI crystals inside SWNTs. <i>Journal of Microscopy</i> , 2008 , 232, 335-42	1.9	32
76	Cables of BN-insulated B ₁₁ N nanotubes. <i>Applied Physics Letters</i> , 2003 , 82, 1275-1277	3.4	32
75	Mixed-Phase WxMoyCzS2 Nanotubes. <i>Chemistry of Materials</i> , 2000 , 12, 3541-3546	9.6	32
74	The effect of multi-wall carbon nanotube morphology on electrical and mechanical properties of polyurethane nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 102, 305-313	8.4	31
73	Facile, fast, and inexpensive synthesis of monodisperse amorphous nickel-phosphide nanoparticles of predefined size. <i>Chemical Communications</i> , 2011 , 47, 4108-10	5.8	31
72	Electrical conductance and breakdown in individual CN _x multiwalled nanotubes. <i>Applied Physics Letters</i> , 2006 , 89, 143110	3.4	30
71	Preparation of aligned multi-walled BN and B/C/N nanotubular arrays and their characterization using HRTEM, EELS and energy-filtered TEM. <i>Physica B: Condensed Matter</i> , 2002 , 323, 60-66	2.8	30
70	STM investigation of carbon nanotubes connected by functional groups. <i>Materials Science and Engineering C</i> , 2003 , 23, 1007-1011	8.3	29
69	Microscopy Study of the Growth Process and Structural Features of Silicon Oxide Nanoflowers. <i>Chemistry of Materials</i> , 1999 , 11, 2709-2715	9.6	28
68	Nanocomposites: synthesis and elemental mapping of aligned B ₁₁ N nanotubes. <i>Chemical Physics Letters</i> , 2002 , 360, 1-7	2.5	27
67	Comparison of carbon materials as electrodes for enzyme electrocatalysis: hydrogenase as a case study. <i>Faraday Discussions</i> , 2014 , 172, 473-96	3.6	26
66	WS ₂ D nanosheets in 3D nanoflowers. <i>Chemical Communications</i> , 2014 , 50, 12360-2	5.8	25
65	Aerosol-assisted chemical vapour deposition synthesis of multi-wall carbon nanotubes: III. Towards upscaling. <i>Carbon</i> , 2015 , 88, 148-156	10.4	24

64	Nanotubes grow or go?. <i>Materials Today</i> , 2006 , 9, 64	21.8	24
63	Time dependent decomposition of ammonia borane for the controlled production of 2D hexagonal boron nitride. <i>Scientific Reports</i> , 2017 , 7, 14297	4.9	23
62	Vertically-aligned silicon carbide nanowires as visible-light-driven photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 267-276	21.8	20
61	Nanocages of layered BN: Super-high-pressure nanocells for formation of solid nitrogen. <i>Journal of Chemical Physics</i> , 2002 , 116, 8523	3.9	19
60	Tungsten-Bismuth-Sulfur composite nanotubes. <i>Chemical Communications</i> , 2001 , 121-122	5.8	19
59	Effects of temperature and ammonia flow rate on the chemical vapour deposition growth of nitrogen-doped graphene. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19446-52	3.6	18
58	A graphene surface force balance. <i>Langmuir</i> , 2014 , 30, 11485-92	4	18
57	Boron-mediated nanotube morphologies. <i>ACS Nano</i> , 2012 , 6, 7800-5	16.7	18
56	Magnetic and hysteretic properties of Fe-filled nanotubes. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 2117-2119	2	18
55	Controlled growth of Ni nanocrystals on SrTiO ₃ and their application in the catalytic synthesis of carbon nanotubes. <i>Chemical Communications</i> , 2013 , 49, 3748-50	5.8	16
54	Ceramic composites from mesoporous silica coated multi-wall carbon nanotubes. <i>Microporous and Mesoporous Materials</i> , 2015 , 217, 159-166	5.3	15
53	N-SWCNTs production by aerosol-assisted CVD method. <i>Chemical Physics Letters</i> , 2012 , 538, 108-111	2.5	15
52	Synthesis of SWCNT rings made by two Y junctions and possible applications in electron interferometry. <i>Small</i> , 2007 , 3, 1900-5	11	15
51	Self-assembly of Si nanostructures. <i>Chemical Physics Letters</i> , 2000 , 322, 312-320	2.5	15
50	Single-Step Spray Printing of Symmetric All-Organic Solid-State Batteries Based on Porous Textile Dye Electrodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1901418	21.8	13
49	In situ engineering of NanoBud geometries. <i>Chemical Communications</i> , 2013 , 49, 10956-8	5.8	13
48	Doping of carbon nanotubes with nitrogen improves protein coverage whilst retaining correct conformation. <i>Nanotechnology</i> , 2008 , 19, 384001	3.4	13
47	. <i>IEEE Nanotechnology Magazine</i> , 2003 , 2, 349-354	2.6	13

46	Synthesis of carbon nanocoil forests on BaSrTiO ₃ substrates with the aid of a Sn catalyst. <i>Carbon</i> , 2013 , 60, 5-15	10.4	11
45	Effect of Acid Treatment on the Structure and Electrical Properties of Nitrogen-Doped Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1908-1912	3.8	11
44	Preparation and characterisation of novel sea-cucumber-like structures containing carbon and boron. <i>Carbon</i> , 2004 , 42, 2223-2231	10.4	11
43	Solid-phase production of carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 68, 493-495	2.6	11
42	Current-Induced Restructuring and Chemical Modification of N-Doped Multi-walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2011 , 21, 3933-3937	15.6	10
41	Cathodoluminescence of fullerene C ₆₀ . <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 7869-7878	1.8	10
40	Nacre-like alumina with unique high strain rate capabilities. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 417-426	6	10
39	The Behaviour of 1D CuI Crystal@SWNT Nanocomposite under Electron Irradiation. <i>AIP Conference Proceedings</i> , 2008 ,	0	8
38	Stiffness, strength and interwall sliding in aligned and continuous multi-walled carbon nanotube/glass composite microcantilevers. <i>Acta Materialia</i> , 2015 , 100, 118-125	8.4	7
37	Rapid, Heterogeneous Biocatalytic Hydrogenation and Deuteration in a Continuous Flow Reactor. <i>ChemCatChem</i> , 2020 , 12, 3913-3918	5.2	7
36	Customised transition metal oxide nanoparticles for the controlled production of carbon nanostructures. <i>RSC Advances</i> , 2012 , 2, 3748	3.7	7
35	Polarized light microscopy of chemical-vapor-deposition-grown graphene on copper. <i>Applied Physics Letters</i> , 2012 , 100, 213103	3.4	7
34	Investigating the Structural, Electronic, and Chemical Evolution of B-Doped Multi-walled Carbon Nanotubes as a Result of Joule Heating. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 25019-25022	3.8	7
33	Scanning tunneling microscopy and spectroscopy of nitrogen doped multi-walled carbon nanotubes produced by the pyrolysis of ferrocene and benzylamine. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 6139-43	1.3	7
32	MWCNT-coated alumina micro-platelets for nacre-like biomimetic composites. <i>Carbon</i> , 2019 , 145, 586-595	10.4	6
31	Flame spray pyrolysis generated transition metal oxide nanoparticles as catalysts for the growth of carbon nanotubes. <i>RSC Advances</i> , 2013 , 3, 20040	3.7	6
30	Morphology--composition correlations in carbon nanotubes synthesised with nitrogen and phosphorus containing precursors. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 2137-42	3.6	6
29	SiO ₂ -coated carbon nanotubes: theory and experiment. <i>International Journal of Materials Research</i> , 2002 , 93, 455-458		6

28	Doping and connecting carbon nanotubes. <i>Molecular Crystals and Liquid Crystals</i> , 2002 , 387, 51-62	0.5	6
27	A carbon-nanotube based nano-furnace for in-situ restructuring of a magnetoelectric oxide. <i>Carbon</i> , 2017 , 114, 291-300	10.4	5
26	Stable Dispersions of Nitrogen Containing Multi-Walled Carbon Nanotubes. <i>Materials Express</i> , 2011 , 1, 201-209	1.3	5
25	Single source precursor route to iron sulfide nanomaterials for energy storage. <i>Chemical Physics Letters</i> , 2020 , 739, 136993	2.5	4
24	Metal-free chemical vapor deposition growth of graphitic tubular structures on engineered perovskite oxide substrates. <i>Carbon</i> , 2016 , 99, 591-598	10.4	4
23	Classification of carbon nanostructure families occurring in a chemically activated arc discharge reaction. <i>RSC Advances</i> , 2016 , 6, 24912-24920	3.7	4
22	Characterisation of conductive CVD carbon glass fibres. <i>Carbon</i> , 2004 , 42, 2349-2351	10.4	4
21	Metal and alloy nanowires: Iron and invar inside carbon nanotubes. <i>AIP Conference Proceedings</i> , 2001 ,	0	4
20	Ultra-stiff large-area carpets of carbon nanotubes. <i>Nanoscale</i> , 2016 , 8, 11993-2001	7.7	4
19	Versatile in situ gas analysis apparatus for nanomaterials reactors. <i>Analytical Chemistry</i> , 2014 , 86, 8850-67.8	6.8	3
18	Pure and aligned carbon nanotubes produced by the pyrolysis of benzene-based aerosols. <i>AIP Conference Proceedings</i> , 2001 ,	0	3
17	Biocatalytic hydrogenations on carbon supports. <i>Methods in Enzymology</i> , 2020 , 630, 303-325	1.7	3
16	Electrophoretic Fabrication of Robust Carbon Nanotube Buckyfilms for Flexible Electronics. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5190-5199	5.6	2
15	Direct visualization of electrical transport-induced alloy formation and composition changes in filled multi-wall carbon nanotubes by in situ scanning transmission electron microscopy. <i>Journal of Alloys and Compounds</i> , 2017 , 721, 501-505	5.7	2
14	Encyclopedia of Carbon Nanoforms 2012 , 1-65		2
13	Lipid-Modulated Assembly of Magnetized Iron-Filled Carbon Nanotubes in Millimeter-Scale Structures. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 2799-2805	1.4	2
12	Synthesis, characterisation and applications of core-shell carbon-hexagonal boron nitride nanotubes. <i>Nanoscale Advances</i> , 2020 , 2, 4996-5014	5.1	2
11	The application of the surface energy based solubility parameter theory for the rational design of polymer-functionalized MWCNTs. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5331-5334	3.6	2

10	Chemo-bio catalysis using carbon supports: application in H-driven cofactor recycling. <i>Chemical Science</i> , 2021 , 12, 8105-8114	9.4	2
9	Janus Structured Multiwalled Carbon Nanotube Forests for Simple Asymmetric Surface Functionalization and Patterning at the Nanoscale. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7554-7562	5.6	1
8	A Simple Route to Silicon-Based Nanostructures 1999 , 11, 844		1
7	Carbon nanotube columns for flow systems: influence of synthesis parameters. <i>Nanoscale Advances</i> , 2020 , 2, 5874-5882	5.1	0
6	Synthesis of ultra-small iron-oxide and cobalt ferrite nanoparticles by a simple thermal decomposition approach 2016 , 151-152		
5	Advanced STEM characterisation of composition controlled MoxW1 xS2 mixed transition metal dichalcogenide alloys grown by chemical vapour deposition 2016 , 506-507		
4	A facile route to self-assembled Hg//MoSI nanowire networks. <i>New Journal of Chemistry</i> , 2010 , 34, 2241-3,6		
3	Rational synthesis of polymer coated inorganic nanoparticles-MWCNT hybrids via solvophobic effects. <i>Carbon Trends</i> , 2022 , 6, 100141		0
2	Synthesis of Carbon Nanotubes 2011 , 263-278		
1	Atomic resolution electron microscopy of cobalt ferrite nanoparticles 2016 , 153-154		