Nicole Grobert

List of Publications by Year in Descending Order

135 papers	7,701 citations	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	Rational synthesis of polymer coated inorganic nanoparticles-MWCNT hybrids via solvophobic effects. *Carbon Trends*, **2022**, 6, 100141	0	
134	Chemo-bio catalysis using carbon supports: application in H-driven cofactor recycling. *Chemical Science*, **2021**, 12, 8105-8114	9.4	2
133	Janus Structured Multiwalled Carbon Nanotube Forests for Simple Asymmetric Surface Functionalization and Patterning at the Nanoscale. *ACS Applied Nano Materials*, **2020**, 3, 7554-7562	5.6	1
132	Understanding the conversion mechanism and performance of monodisperse FeF nanocrystal cathodes. *Nature Materials*, **2020**, 19, 644-654	27	39
131	Single source precursor route to iron sulfide nanomaterials for energy storage. *Chemical Physics Letters*, **2020**, 739, 136993	2.5	4
130	Rapid, Heterogeneous Biocatalytic Hydrogenation and Deuteration in a Continuous Flow Reactor. *ChemCatChem*, **2020**, 12, 3913-3918	5.2	7
129	Carbon nanotube columns for flow systems: influence of synthesis parameters. *Nanoscale Advances* , **2020**, 2, 5874-5882	5.1	0
128	Biocatalytic hydrogenations on carbon supports. *Methods in Enzymology*, **2020**, 630, 303-325	1.7	3
127	Synthesis, characterisation and applications of core–shell carbon–hexagonal boron nitride nanotubes. *Nanoscale Advances*, **2020**, 2, 4996-5014	5.1	2
126	Nacre-like alumina with unique high strain rate capabilities. *Journal of the European Ceramic Society*, **2020**, 40, 417-426	6	10
125	MWCNT-coated alumina micro-platelets for nacre-like biomimetic composites. *Carbon*, **2019**, 145, 586-595	10.4	6
124	Electrophoretic Fabrication of Robust Carbon Nanotube Buckyfilms for Flexible Electronics. *ACS Applied Nano Materials*, **2019**, 2, 5190-5199	5.6	2
123	Single-Step Spray Printing of Symmetric All-Organic Solid-State Batteries Based on Porous Textile Dye Electrodes. *Advanced Energy Materials*, **2019**, 9, 1901418	21.8	13
122	The application of the surface energy based solubility parameter theory for the rational design of polymer-functionalized MWCNTs. *Physical Chemistry Chemical Physics*, **2019**, 21, 5331-5334	3.6	2
121	Low-Cost Chitosan-Derived N-Doped Carbons Boost Electrocatalytic Activity of Multiwall Carbon Nanotubes. *Advanced Functional Materials*, **2018**, 28, 1707284	15.6	55
120	High-frequency supercapacitors based on doped carbon nanostructures. *Carbon*, **2018**, 126, 305-312	10.4	47
119	Direct Measurement of the Surface Energy of Graphene. *Nano Letters*, **2017**, 17, 3815-3821	11.5	63

118	Vertically-aligned silicon carbide nanowires as visible-light-driven photocatalysts. *Applied Catalysis B: Environmental*, **2017**, 218, 267-276	21.8	20
117	A carbon-nanotube based nano-furnace for in-situ restructuring of a magnetoelectric oxide. *Carbon* , **2017**, 114, 291-300	10.4	5
116	H-Driven biocatalytic hydrogenation in continuous flow using enzyme-modified carbon nanotube columns. *Chemical Communications*, **2017**, 53, 9839-9841	5.8	38
115	The effect of multi-wall carbon nanotube morphology on electrical and mechanical properties of polyurethane nanocomposites. *Composites Part A: Applied Science and Manufacturing*, **2017**, 102, 305-313	8.4	31
114	Time dependent decomposition of ammonia borane for the controlled production of 2D hexagonal boron nitride. *Scientific Reports*, **2017**, 7, 14297	4.9	23
113	Targeted removal of copper foil surface impurities for improved synthesis of CVD graphene. *Carbon*, **2017**, 122, 207-216	10.4	32
112	Direct visualization of electrical transport-induced alloy formation and composition changes in filled multi-wall carbon nanotubes by in situ scanning transmission electron microscopy. *Journal of Alloys and Compounds*, **2017**, 721, 501-505	5.7	2
111	Synthesis of ultra-small iron-oxide and cobalt ferrite nanoparticles by a simple thermal decomposition approach **2016**, 151-152		
110	Advanced STEM characterisation of composition controlled MoxW1 xS2 mixed transition metal dichalcogenide alloys grown by chemical vapour deposition **2016**, 506-507		
109	Metal-free chemical vapor deposition growth of graphitic tubular structures on engineered perovskite oxide substrates. *Carbon*, **2016**, 99, 591-598	10.4	4
108	Classification of carbon nanostructure families occurring in a chemically activated arc discharge reaction. *RSC Advances*, **2016**, 6, 24912-24920	3.7	4
107	Atomic resolution electron microscopy of cobalt ferrite nanoparticles **2016**, 153-154		
106	Ultra-stiff large-area carpets of carbon nanotubes. *Nanoscale*, **2016**, 8, 11993-2001	7.7	4
105	Aerosol-assisted chemical vapour deposition synthesis of multi-wall carbon nanotubes: III. Towards upscaling. *Carbon*, **2015**, 88, 148-156	10.4	24
104	Ceramic composites from mesoporous silica coated multi-wall carbon nanotubes. *Microporous and Mesoporous Materials*, **2015**, 217, 159-166	5.3	15
103	Rapid epitaxy-free graphene synthesis on silicidated polycrystalline platinum. *Nature Communications*, **2015**, 6, 7536	17.4	45
102	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. *Physical Chemistry Chemical Physics*, **2015**, 17, 23741-7	3.6	51
101	Stiffness, strength and interwall sliding in aligned and continuous multi-walled carbon nanotube/glass composite microcantilevers. *Acta Materialia*, **2015**, 100, 118-125	8.4	7

100	Morphology--composition correlations in carbon nanotubes synthesised with nitrogen and phosphorus containing precursors. *Physical Chemistry Chemical Physics*, **2015**, 17, 2137-42	3.6	6
99	Boron- and nitrogen-doped multi-wall carbon nanotubes for gas detection. *Carbon*, **2014**, 66, 662-673	10.4	112
98	Effects of temperature and ammonia flow rate on the chemical vapour deposition growth of nitrogen-doped graphene. *Physical Chemistry Chemical Physics*, **2014**, 16, 19446-52	3.6	18
97	A graphene surface force balance. *Langmuir*, **2014**, 30, 11485-92	4	18
96	Versatile in situ gas analysis apparatus for nanomaterials reactors. *Analytical Chemistry*, **2014**, 86, 8850-6	7.8	3
95	WS2 2D nanosheets in 3D nanoflowers. *Chemical Communications*, **2014**, 50, 12360-2	5.8	25
94	Comparison of carbon materials as electrodes for enzyme electrocatalysis: hydrogenase as a case study. *Faraday Discussions*, **2014**, 172, 473-96	3.6	26
93	Probing the bonding in nitrogen-doped graphene using electron energy loss spectroscopy. *ACS Nano*, **2013**, 7, 7145-50	16.7	60
92	In situ engineering of NanoBud geometries. *Chemical Communications*, **2013**, 49, 10956-8	5.8	13
91	Layer-by-layer spray deposition and unzipping of single-wall carbon nanotube-based thin film electrodes for electrochemical capacitors. *Carbon*, **2013**, 61, 525-536	10.4	34
90	Controlled growth of Ni nanocrystals on SrTiO(3) and their application in the catalytic synthesis of carbon nanotubes. *Chemical Communications*, **2013**, 49, 3748-50	5.8	16
89	Flame spray pyrolysis generated transition metal oxide nanoparticles as catalysts for the growth of carbon nanotubes. *RSC Advances*, **2013**, 3, 20040	3.7	6
88	Aerosol-assisted chemical vapour deposition synthesis of multi-wall carbon nanotubes: II. An analytical study. *Carbon*, **2013**, 58, 159-169	10.4	32
87	Aerosol-assisted chemical vapour deposition synthesis of multi-wall carbon nanotubes: I. Mapping the reactor. *Carbon*, **2013**, 58, 151-158	10.4	33
86	Synthesis of carbon nanocoil forests on BaSrTiO3 substrates with the aid of a Sn catalyst. *Carbon*, **2013**, 60, 5-15	10.4	11
85	Controlling the orientation, edge geometry, and thickness of chemical vapor deposition graphene. *ACS Nano*, **2013**, 7, 1351-9	16.7	159
84	N-SWCNTs production by aerosol-assisted CVD method. *Chemical Physics Letters*, **2012**, 538, 108-111	2.5	15
83	Encyclopedia of Carbon Nanoforms **2012**, 1-65		2

82	Customised transition metal oxide nanoparticles for the controlled production of carbon nanostructures. *RSC Advances*, **2012**, 2, 3748	3.7	7
81	Boron-mediated nanotube morphologies. *ACS Nano*, **2012**, 6, 7800-5	16.7	18
80	Polarized light microscopy of chemical-vapor-deposition-grown graphene on copper. *Applied Physics Letters*, **2012**, 100, 213103	3.4	7
79	Tailoring gas sensing properties of multi-walled carbon nanotubes by in situ modification with Si, P, and N. *Carbon*, **2012**, 50, 2816-2823	10.4	37
78	Tuning the magnetic properties of iron-filled carbon nanotubes. *Carbon*, **2012**, 50, 3674-3681	10.4	55
77	Facile, fast, and inexpensive synthesis of monodisperse amorphous nickel-phosphide nanoparticles of predefined size. *Chemical Communications*, **2011**, 47, 4108-10	5.8	31
76	Current-Induced Restructuring and Chemical Modification of N-Doped Multi-walled Carbon Nanotubes. *Advanced Functional Materials*, **2011**, 21, 3933-3937	15.6	10
75	Investigating the Structural, Electronic, and Chemical Evolution of B-Doped Multi-walled Carbon Nanotubes as a Result of Joule Heating. *Journal of Physical Chemistry C*, **2011**, 115, 25019-25022	3.8	7
74	Stable Dispersions of Nitrogen Containing Multi-Walled Carbon Nanotubes. *Materials Express*, **2011**, 1, 201-209	1.3	5
73	Synthesis of Carbon Nanotubes **2011**, 263-278		
72	A facile route to self-assembled Hg//MoSI nanowire networks. *New Journal of Chemistry*, **2010**, 34, 2241	3.6	
71	Processing and properties of aligned multi-walled carbon nanotube/aluminoborosilicate glass composites made by sol–gel processing. *Carbon*, **2010**, 48, 2212-2217	10.4	32
70	Comparison of structural changes in nitrogen and boron-doped multi-walled carbon nanotubes. *Carbon*, **2010**, 48, 3033-3041	10.4	97
69	Effect of the experimental parameters on the structure of nitrogen-doped carbon nanotubes produced by aerosol chemical vapour deposition. *Carbon*, **2009**, 47, 30-37	10.4	124
68	Spray deposited fluoropolymer/multi-walled carbon nanotube composite films with high dielectric permittivity at low percolation threshold. *Carbon*, **2009**, 47, 561-569	10.4	64
67	Heterojunctions between metals and carbon nanotubes as ultimate nanocontacts. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 4591-5	11.5	100
66	Scanning tunneling microscopy and spectroscopy of nitrogen doped multi-walled carbon nanotubes produced by the pyrolysis of ferrocene and benzylamine. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 6139-43	1.3	7
65	The structure of 1D CuI crystals inside SWNTs. *Journal of Microscopy*, **2008**, 232, 335-42	1.9	32

64	Fabrication of carbon-nanotube-reinforced glass–ceramic nanocomposites by ultrasonic in situ sol–gel processing. *Journal of Materials Chemistry*, **2008**, 18, 5344		53
63	Doping of carbon nanotubes with nitrogen improves protein coverage whilst retaining correct conformation. *Nanotechnology*, **2008**, 19, 384001	3.4	13
62	Effect of Acid Treatment on the Structure and Electrical Properties of Nitrogen-Doped Multiwalled Carbon Nanotubes. *Journal of Physical Chemistry C*, **2008**, 112, 1908-1912	3.8	11
61	The Behaviour of 1D CuI Crystal@SWNT Nanocomposite under Electron Irradiation. *AIP Conference Proceedings*, **2008**,	0	8
60	Tumbling motion of magnetic particles on a magnetic substrate induced by a rotational magnetic field. *Physical Review E*, **2008**, 78, 021403	2.4	51
59	Carbon nanotubes – becoming clean. *Materials Today*, **2007**, 10, 28-35	21.8	253
58	Synthesis of SWCNT rings made by two Y junctions and possible applications in electron interferometry. *Small*, **2007**, 3, 1900-5	11	15
57	Lipid-Modulated Assembly of Magnetized Iron-Filled Carbon Nanotubes in Millimeter-Scale Structures. *Japanese Journal of Applied Physics*, **2007**, 46, 2799-2805	1.4	2
56	Electrical conductance and breakdown in individual CNx multiwalled nanotubes. *Applied Physics Letters*, **2006**, 89, 143110	3.4	30
55	Nanotubes – grow or go?. *Materials Today*, **2006**, 9, 64	21.8	24
54	Zipper mechanism of nanotube fusion: theory and experiment. *Physical Review Letters*, **2004**, 92, 075504	7.4	75
53	Microstructural investigations on zirconium oxide–carbon nanotube composites synthesized by hydrothermal crystallization. *Carbon*, **2004**, 42, 1995-1999	10.4	99
52	Preparation and characterisation of novel 'sea-cucumber'-like structures containing carbon and boron. *Carbon*, **2004**, 42, 2223-2231	10.4	11
51	Characterisation of conductive CVD carbon–glass fibres. *Carbon*, **2004**, 42, 2349-2351	10.4	4
50	Efficient encapsulation of gaseous nitrogen inside carbon nanotubes with bamboo-like structure using aerosol thermolysis. *Chemical Physics Letters*, **2004**, 396, 167-173	2.5	72
49	Microstructural characterization of C–SiC–carbon nanotube composite flakes. *Carbon*, **2004**, 42, 1-4	10.4	34
48	STM investigation of carbon nanotubes connected by functional groups. *Materials Science and Engineering C*, **2003**, 23, 1007-1011	8.3	29
47	Structure, transport and field-emission properties of compound nanotubes: CNx vs. BNCx (x. *Applied Physics A: Materials Science and Processing*, **2003**, 76, 499-507	2.6	82

46	Production and State-of-the-Art Characterization of Aligned Nanotubes with Homogeneous BCxN (1 x 5) Compositions. *Advanced Materials*, **2003**, 15, 1899-1903	24	53
45	In-situ formation of carbon nanotubes in an alumina nanotube composite by spray pyrolysis. *Carbon*, **2003**, 41, 2737-2741	10.4	34
44	Nonlinear Behavior in the Thermopower of Doped Carbon Nanotubes Due to Strong, Localized States. *Nano Letters*, **2003**, 3, 839-842	11.5	66
43	Selective Attachment of Gold Nanoparticles to Nitrogen-Doped Carbon Nanotubes. *Nano Letters*, **2003**, 3, 275-277	11.5	486
42	. *IEEE Nanotechnology Magazine*, **2003**, 2, 349-354	2.6	13
41	Cables of BN-insulated BCN nanotubes. *Applied Physics Letters*, **2003**, 82, 1275-1277	3.4	32
40	N-doping and coalescence of carbon nanotubes: synthesis and electronic properties. *Applied Physics A: Materials Science and Processing*, **2002**, 74, 355-361	2.6	367
39	Preparation of aligned multi-walled BN and B/C/N nanotubular arrays and their characterization using HRTEM, EELS and energy-filtered TEM. *Physica B: Condensed Matter*, **2002**, 323, 60-66	2.8	30
38	Synthetic routes to nanoscale BxCyNz architectures. *Carbon*, **2002**, 40, 1665-1684	10.4	136
37	Nanocomposites: synthesis and elemental mapping of aligned BCN nanotubes. *Chemical Physics Letters*, **2002**, 360, 1-7	2.5	27
36	Mssbauer Study of Iron-Containing Carbon Nanotubes. *Hyperfine Interactions*, **2002**, 139/140, 535-542	0.8	55
35	Nanocages of layered BN: Super-high-pressure nanocells for formation of solid nitrogen. *Journal of Chemical Physics*, **2002**, 116, 8523	3.9	19
34	Hysteresis shift in Fe-filled carbon nanotubes due to Fe. *Physical Review B*, **2002**, 65,	3.3	108
33	SiO2-coated carbon nanotubes: theory and experiment. *International Journal of Materials Research*, **2002**, 93, 455-458		6
32	Doping and connecting carbon nanotubes. *Molecular Crystals and Liquid Crystals*, **2002**, 387, 51-62	0.5	6
31	Enhanced Electron Field Emission in B-doped Carbon Nanotubes. *Nano Letters*, **2002**, 2, 1191-1195	11.5	125
30	Nanotubes in a flash--ignition and reconstruction. *Science*, **2002**, 296, 705	33.3	221
29	Pure and aligned carbon nanotubes produced by the pyrolysis of benzene-based aerosols. *AIP Conference Proceedings*, **2001**,	0	3

28	SiOx-coating of carbon nanotubes at room temperature. *Chemical Physics Letters*, **2001**, 339, 41-46	2.5	97
27	Pyrolytic production of aligned carbon nanotubes from homogeneously dispersed benzene-based aerosols. *Chemical Physics Letters*, **2001**, 338, 101-107	2.5	186
26	Graphitic cones in palladium catalysed carbon nanofibres. *Chemical Physics Letters*, **2001**, 343, 241-250	2.5	138
25	Magnetic and hysteretic properties of Fe-filled nanotubes. *IEEE Transactions on Magnetics*, **2001**, 37, 2117-2119	2	18
24	Identification of Electron Donor States in N-Doped Carbon Nanotubes. *Nano Letters*, **2001**, 1, 457-460	11.5	659
23	METAL ATOMS IN CARBON NANOTUBES AND RELATED NANOPARTICLES. *International Journal of Modern Physics B*, **2001**, 15, 4037-4069	1.1	60
22	Tungsten□niobium□sulfur composite nanotubes. *Chemical Communications*, **2001**, 121-122	5.8	19
21	Metal and alloy nanowires: Iron and invar inside carbon nanotubes. *AIP Conference Proceedings*, **2001**,	0	4
20	Carbon Nanotubes as Nanoreactors for Boriding Iron Nanowires. *Advanced Materials*, **2000**, 12, 1356-1359	24	34
19	Self-assembly of Si nanostructures. *Chemical Physics Letters*, **2000**, 322, 312-320	2.5	15
18	Production of WS2 Nanotubes. *Chemistry of Materials*, **2000**, 12, 1190-1194	9.6	88
17	A novel route to aligned nanotubes and nanofibres using laser-patterned catalytic substrates. *Applied Physics A: Materials Science and Processing*, **2000**, 70, 175-183	2.6	57
16	Generation of hollow crystalline tungsten oxide fibres. *Applied Physics A: Materials Science and Processing*, **2000**, 70, 231-233	2.6	71
15	Cathodoluminescence of fullerene C60. *Journal of Physics Condensed Matter*, **2000**, 12, 7869-7878	1.8	10
14	An Alternative Route to Molybdenum Disulfide Nanotubes. *Journal of the American Chemical Society*, **2000**, 122, 10155-10158	16.4	69
13	Aligned CNx nanotubes by pyrolysis of ferrocene/C60 under NH3 atmosphere. *Applied Physics Letters*, **2000**, 77, 1807	3.4	107
12	Mixed-Phase WxMoyCzS2 Nanotubes. *Chemistry of Materials*, **2000**, 12, 3541-3546	9.6	32
11	Morphology, structure and growth of WS2nanotubes. *Journal of Materials Chemistry*, **2000**, 10, 2570-2577		54

10	Boron-doping effects in carbon nanotubes. *Journal of Materials Chemistry*, **2000**, 10, 1425-1429		95
9	Tungsten oxide tree-like structures. *Chemical Physics Letters*, **1999**, 309, 327-334	2.5	145
8	Solid-phase production of carbon nanotubes. *Applied Physics A: Materials Science and Processing*, **1999**, 68, 493-495	2.6	11
7	Carbon Nitride Nanocomposites: Formation of Aligned CxNy Nanofibers. *Advanced Materials*, **1999**, 11, 655-658	24	231
6	A Simple Route to Silicon-Based Nanostructures. *Advanced Materials*, **1999**, 11, 844-847	24	81
5	SiC□SiOx heterojunctions in nanowires. *Journal of Materials Chemistry*, **1999**, 9, 3173-3178		68
4	Microscopy Study of the Growth Process and Structural Features of Silicon Oxide Nanoflowers. *Chemistry of Materials*, **1999**, 11, 2709-2715	9.6	28
3	A Simple Route to Silicon-Based Nanostructures **1999**, 11, 844		1
2	3D Silicon oxide nanostructures: from nanoflowers to radiolaria. *Journal of Materials Chemistry*, **1998**, 8, 1859-1864		102
1	Controlled production of aligned-nanotube bundles. *Nature*, **1997**, 388, 52-55	50.4	690