

Raymond L D Whitby

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.

61
papers

2,289
citations

24
h-index

47
g-index

63
ext. papers

2,430
ext. citations

6.1
avg, IF

4.84
L-index

#	Paper	IF	Citations
61	Use of iron-based technologies in contaminated land and groundwater remediation: a review. <i>Science of the Total Environment</i> , 2008 , 400, 42-51	10.2	469
60	Polyurea-functionalized multiwalled carbon nanotubes: synthesis, morphology, and Raman spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11925-32	3.4	213
59	The surface acidity of acid oxidised multi-walled carbon nanotubes and the influence of in-situ generated fulvic acids on their stability in aqueous dispersions. <i>Carbon</i> , 2009 , 47, 73-79	10.4	180
58	Geometric control and tuneable pore size distribution of buckypaper and buckydiscs. <i>Carbon</i> , 2008 , 46, 949-956	10.4	142
57	Neurite outgrowths of neurons with neurotrophin-coated carbon nanotubes. <i>Journal of Bioscience and Bioengineering</i> , 2007 , 103, 216-20	3.3	111
56	Driving forces of conformational changes in single-layer graphene oxide. <i>ACS Nano</i> , 2012 , 6, 3967-73	16.7	97
55	Chemical control of graphene architecture: tailoring shape and properties. <i>ACS Nano</i> , 2014 , 8, 9733-54	16.7	89
54	High efficiency removal of dissolved As(III) using iron nanoparticle-embedded macroporous polymer composites. <i>Journal of Hazardous Materials</i> , 2011 , 192, 1002-8	12.8	80
53	pH-driven physicochemical conformational changes of single-layer graphene oxide. <i>Chemical Communications</i> , 2011 , 47, 9645-7	5.8	76
52	Simple Approaches to Quality Large-Scale Tungsten Oxide Nanoneedles. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15572-15577	3.4	61
51	Stimulation of neuronal neurite outgrowth using functionalized carbon nanotubes. <i>Nanotechnology</i> , 2010 , 21, 115101	3.4	59
50	High temperature oxidative resistance of polyacrylonitrile-methylmethacrylate copolymer powder converting to a carbonized monolith. <i>European Polymer Journal</i> , 2012 , 48, 97-104	5.2	50
49	Multiwalled Carbon Nanotubes Coated with Tungsten Disulfide. <i>Chemistry of Materials</i> , 2002 , 14, 2209-2217	3.67	42
48	Hyperstoichiometric interaction between silver and mercury at the nanoscale. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2632-5	16.4	41
47	Repairing Peripheral Nerves: Is there a Role for Carbon Nanotubes?. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1253-71	10.1	38
46	Phenolic carbon tailored for the removal of polar organic contaminants from water: a solution to the metaldehyde problem?. <i>Water Research</i> , 2014 , 61, 46-56	12.5	36
45	Microstructure changes of polyurethane by inclusion of chemically modified carbon nanotubes at low filler contents. <i>Composites Science and Technology</i> , 2012 , 72, 865-872	8.6	35

44	Morphological changes and covalent reactivity assessment of single-layer graphene oxides under carboxylic group-targeted chemistry. <i>Carbon</i> , 2011 , 49, 722-725	10.4	33
43	Morphological and chemical features of nano and macroscale carbons affecting hydrogen peroxide decomposition in aqueous media. <i>Journal of Colloid and Interface Science</i> , 2011 , 361, 129-36	9.3	31
42	Morphological effects of single-layer graphene oxide in the formation of covalently bonded polypyrrole composites using intermediate diisocyanate chemistry. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 4829-4837	2.3	29
41	Relating bulk resistivity to nanoscale mechanical responses of carbon nanotubes randomly orientated in monoliths under compression. <i>Carbon</i> , 2010 , 48, 3635-3637	10.4	27
40	Tungsten disulphide sheathed carbon nanotubes. <i>ChemPhysChem</i> , 2001 , 2, 620-3	3.2	27
39	Direct confirmation that carbon nanotubes still react covalently after removal of acid-oxidative lattice fragments. <i>Carbon</i> , 2010 , 48, 916-918	10.4	25
38	Mechanical performance of highly compressible multi-walled carbon nanotube columns with hyperboloid geometries. <i>Carbon</i> , 2010 , 48, 145-152	10.4	24
37	In vitro biocompatibility of multiwalled carbon nanotubes with sensory neurons. <i>Advanced Healthcare Materials</i> , 2013 , 2, 728-35	10.1	22
36	Interactions of single and multi-layer graphene oxides with water, methane, organic solvents and HCl studied by ¹ H NMR. <i>Carbon</i> , 2013 , 57, 191-201	10.4	19
35	The role of interfacial chemistry and interactions in the dynamics of thermosetting polyurethane/multiwalled carbon nanotube composites at low filler contents. <i>Colloid and Polymer Science</i> , 2013 , 291, 573-583	2.4	18
34	Nanomaterials and the Environment: Global impact of tiny materials 2013 , 1, 1-2		16
33	Dissociation of carbon dioxide and creation of carbon particles and films at room temperature. <i>New Journal of Physics</i> , 2007 , 9, 321-321	2.9	16
32	Carbon-cryogel hierarchical composites as effective and scalable filters for removal of trace organic pollutants from water. <i>Journal of Environmental Management</i> , 2016 , 182, 141-148	7.9	14
31	Rapid assembly of carbon nanotube-based magnetic composites. <i>Materials Chemistry and Physics</i> , 2011 , 128, 514-518	4.4	14
30	WS ₂ layer formation on multi-walled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 527-532	2.6	13
29	Effect of high-intensity sonication on the dispersion of carbon-based nanofilaments in cementitious composites, and its impact on mechanical performance. <i>Materials and Design</i> , 2017 , 136, 223-237	8.1	12
28	Low temperature synthesis of iron containing carbon nanoparticles in critical carbon dioxide. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 53-58	2.3	12
27	Novel Mg ₂ SiO ₄ structures. <i>Chemical Communications</i> , 2004 , 2396-7	5.8	12

26	Real-time imaging of complex nanoscale mechanical responses of carbon nanotubes in highly compressible porous monoliths. <i>Nanotechnology</i> , 2010 , 21, 75707	3.4	11
25	Novel nanoscale architectures: coated nanotubes and other nanowires. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 2127-42	3	11
24	Formation of clusters composed of C60 molecules via self-assembly in critical fluids. <i>Nanotechnology</i> , 2007 , 18, 145611	3.4	9
23	Vibration reduction ability of MWCNT PVAc composites measured under high frequency for acoustic device application. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4150		8
22	Single-Layer Graphenes Functionalized with Polyurea: Architectural Control and Biomolecule Reactivity. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11829-11836	3.8	7
21	Creation of carbon onions and coils at low temperature in near-critical benzene irradiated with an ultraviolet laser. <i>Nanotechnology</i> , 2007 , 18, 415604	3.4	7
20	Applications of Activated Carbon Sorbents Based on Greek Walnut. <i>Applied Mechanics and Materials</i> , 2013 , 467, 49-51	0.3	6
19	Synthesis and application of hydride silica composites for rapid and facile removal of aqueous mercury. <i>ChemPhysChem</i> , 2013 , 14, 4126-33	3.2	6
18	Bacteriophage-nanocomposites: an easy and reproducible method for the construction, handling, storage and transport of conjugates for deployment of bacteriophages active against <i>Pseudomonas aeruginosa</i> . <i>Journal of Microbiological Methods</i> , 2015 , 111, 111-8	2.8	5
17	Exfoliated production of single- and multi-layer graphenes and carbon nanofibres from the carbonisation of a co-polymer. <i>Carbon</i> , 2012 , 50, 2018-2025	10.4	4
16	Dielectric properties of WS ₂ -coated multiwalled carbon nanotubes studied by energy-loss spectroscopic profiling. <i>Applied Physics Letters</i> , 2005 , 86, 063112	3.4	4
15	Conversion of amorphous WO ₃ into WS ₂ nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 3938-3940	3.9	4
14	Buckycolumn electrodes: a practical and improved alternative to conventional materials utilised for biological electrochemical monitoring. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4359-4363	7.3	3
13	Low temperature synthesis of carbon fibres and metal-filling carbon nanoparticles with laser irradiation into near-critical benzene. <i>RSC Advances</i> , 2015 , 5, 12671-12677	3.7	3
12	Creation of spherical carbon nanoparticles and clusters from carbon dioxide via UV dissociation at the critical point. <i>Green Chemistry</i> , 2012 , 14, 1196	10	3
11	1D Nanomaterials. <i>Journal of Nanomaterials</i> , 2010 , 2010, 1-3	3.2	3
10	Low temperature synthesis of fibres composed of carbon-nickel nanoparticles in super-critical carbon dioxide. <i>Chemical Physics Letters</i> , 2010 , 493, 304-308	2.5	3
9	Cationic ring-opening polymerization of lactones onto chemically modified single layer graphene oxide. <i>Materials Express</i> , 2014 , 4, 242-246	1.3	2

8	Hyperstoichiometric Interaction Between Silver and Mercury at the Nanoscale. <i>Angewandte Chemie</i> , 2012 , 124, 2686-2689	3.6	2
7	Tungsten Disulphide Sheathed Carbon Nanotubes 2001 , 2, 620		2
6	Macro-scale complexity of nano- to micro-scale architecture of olivine crystals through an iodine vapour transport mechanism. <i>Bulletin of Materials Science</i> , 2014 , 37, 239-245	1.7	1
5	Deposition of C60, C70 and C84 fullerene molecules, in benzene via a change of the fluid state, from a gas-liquid two phase region to the critical point. <i>Journal of Supercritical Fluids</i> , 2011 , 58, 407-411	4.2	1
4	1D Nanomaterials 2011. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-2	3.2	1
3	1D Nanomaterials 2013. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-2	3.2	
2	Creation of 3-dimensional carbon nanostructures from UV irradiation of carbon dioxide at room temperature. <i>Journal of Supercritical Fluids</i> , 2012 , 72, 1-6	4.2	
1	1D Nanomaterials 2012. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-2	3.2	