Emmanuel Flahaut

List of Publications by Year
in descending order

320 papers	15,187 citations	26630 56 h-index	22166 113 g-index
327 all docs	327 docs citations	327 times ranked	18194 citing authors

#	Article	IF	Citations
1	Specific surface area of carbon nanotubes and bundles of carbon nanotubes. Carbon, 2001, 39, 507-514.	10.3	1,782
2	DC and AC Conductivity of Carbon Nanotubesâ˜Polyepoxy Composites. Macromolecules, 2003, 36, 5187-5194.	4.8	557
3	Carbon nanotubeâ€“metalâ€“oxide nanocomposites: microstructure, electrical conductivity and mechanical properties. Acta Materialia, 2000, 48, 3803-3812.	7.9	438
4	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. ACS Nano, 2018, 12, 10582-10620.	14.6	438
5	Complement activation and protein adsorption by carbon nanotubes. Molecular Immunology, 2006, 43, 193-201.	2.2	395
6	Carbon nanotubes in novel ceramic matrix nanocomposites. Ceramics International, 2000, 26, 677-683.	4.8	370
7	Classification Framework for Grapheneâ€Based Materials. Angewandte Chemie - International Edition, 2014, 53, 7714-7718.	13.8	369
8	Gram-scale CCVD synthesis of double-walled carbon nanotubes. Chemical Communications, 2003, , 1442.	4.1	350
9	EFFECT OF CARBON NANOTUBES ON DEVELOPING ZEBRAFISH (DANIO RERIO) EMBRYOS. Environmental Toxicology and Chemistry, 2007, 26, 708.	4.3	349
10	High power density electrodes for Carbon supercapacitor applications. Electrochimica Acta, 2005, 50, 4174-4181.	5.2	327
11	Planar carbon nanotubeâ€“graphene hybrid films for high-performance broadband photodetectors. Nature Communications, 2015, 6, 8589.	12.8	258
12	The weight and density of carbon nanotubes versus the number of walls and diameter. Carbon, 2010, 48, 2994-2996.	10.3	242
13	Synthesis of single-walled carbon nanotubeâ€“Coâ€“MgO composite powders and extraction of the nanotubes. Journal of Materials Chemistry, 2000, 10, 249-252.	6.7	237
14	Overview of Carbon Nanotubes for Biomedical Applications. Materials, 2019, 12, 624.	2.9	237
15	Synthesis of single-walled carbon nanotubes using binary (Fe, Co, Ni) alloy nanoparticles prepared in situ by the reduction of oxide solid solutions. Chemical Physics Letters, 1999, 300, 236-242.	2.6	236
16	Influence of carbon nanotubes addition on carbonâ€“carbon supercapacitor performances in organic electrolyte. Journal of Power Sources, 2005, 139, 371-378.	7.8	222
17	Elimination of D-band in Raman spectra of double-wall carbon nanotubes by oxidation. Chemical Physics Letters, 2005, 402, 422-427.	2.6	201
18	Spectroscopy of Single- and Double-Wall Carbon Nanotubes in Different Environments. Nano Letters, 2005, 5, 511-514.	9.1	199

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19	Higher Dispersion Efficacy of Functionalized Carbon Nanotubes in Chemical and Biological Environments. ACS Nano, 2010, 4, 2615-2626.	14.6	189
20	Effect of Palmitic Acid on the Electrical Conductivity of Carbon Nanotubesâ˜'Epoxy Resin Composites. Macromolecules, 2003, 36, 9678-9680.	4.8	176
21	Two layer 4:4 co-ordinated KI crystals grown within single walled carbon nanotubes. Chemical Physics Letters, 2000, 329, 61-65.	2.6	170
22	In Situ Raman Spectroscopy Study of Oxidation of Double- and Single-Wall Carbon Nanotubes. Chemistry of Materials, 2006, 18, 1525-1533.	6.7	161
23	Aligned carbon nanotubes in ceramic-matrix nanocomposites prepared by high-temperature extrusion. Chemical Physics Letters, 2002, 352, 20-25.	2.6	159
24	CCVD Synthesis and Characterization of Cobalt-Encapsulated Nanoparticles. Chemistry of Materials, 2002, 14, 2553-2558.	6.7	154
25	Catalytic CVD synthesis of double and triple-walled carbon nanotubes by the control of the catalyst preparation. Carbon, 2005, 43, 375-383.	10.3	134
26	Characterisation and in vivo ecotoxicity evaluation of double-wall carbon nanotubes in larvae of the amphibian Xenopus laevis. Aquatic Toxicology, 2008, 87, 127-137.	4.0	133
27	Hybrid carbon nanotubes: Strategy, progress, and perspectives. Journal of Materials Research, 2006, 21, 2774-2793.	2.6	122
28	Double-walled carbon nanotubes trigger IL-1Î² release in human monocytes through Nlrp3 inflammasome activation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 987-995.	3.3	120
29	A Study of the Formation of Single- and Double-Walled Carbon Nanotubes by a CVD Method. Journal of Physical Chemistry B, 2001, 105, 9699-9710.	2.6	117
30	Metal nanoparticles for the catalytic synthesis of carbon nanotubes. New Journal of Chemistry, 1998, 22, 1229-1237.	2.8	107
31	Investigation of the cytotoxicity of CCVD carbon nanotubes towards human umbilical vein endothelial cells. Carbon, 2006, 44, 1093-1099.	10.3	101
32	Double walled carbon nanotube/polymer composites via in-situ nitroxide mediated polymerisation of amphiphilic block copolymers. Carbon, 2005, 43, 873-876.	10.3	100
33	Binding of pulmonary surfactant proteins to carbon nanotubes; potential for damage to lung immune defense mechanisms. Carbon, 2007, 45, 607-617.	10.3	100
34	Mesoporous Single-Atom-Doped Grapheneâ€"Carbon Nanotube Hybrid: Synthesis and Tunable Electrocatalytic Activity for Oxygen Evolution and Reduction Reactions. ACS Catalysis, 2020, 10, 4647-4658.	11.2	100
35	Crystallization of 2H and 4H PbI2in Carbon Nanotubes of Varying Diameters and Morphologies. Chemistry of Materials, 2006, 18, 2059-2069.	6.7	86
36	Carbon nanotubes induce inflammation but decrease the production of reactive oxygen species in lung. Toxicology, 2010, 272, 39-45.	4.2	82

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37	Bromination of Double-Walled Carbon Nanotubes. Chemistry of Materials, 2012, 24, 2708-2715.	6.7	76
38	CCVD synthesis of carbon nanotubes from (Mg,Co,Mo)O catalysts: influence of the proportions of cobalt and molybdenum. Journal of Materials Chemistry, 2004, 14, 646.	6.7	75
39	Mid-infrared Raman-soliton continuum pumped by a nanotube-mode-locked sub-picosecond Tm-doped MOPFA. Optics Express, 2013, 21, 23261.	3.4	74
40	1D lanthanide halide crystals inserted into single-walled carbon nanotubes. Chemical Communications, 2000, , 2427-2428.	4.1	73
41	An investigation of carbon nanotubes obtained from the decomposition of methane over reduced Mg_{1â^'x}M_xAl₂O₄ spinel catalysts. Journal of Materials Research, 1999, 14, 2567-2576.	2.6	72
42	Rings of Double-Walled Carbon Nanotube Bundles. Nano Letters, 2003, 3, 685-689.	9.1	72
43	Carbon nanotubes: Impacts and behaviour in the terrestrial ecosystem - A review. Carbon, 2017, 123, 767-785.	10.3	72
44	Raman spectroscopy of iodine-doped double-walled carbon nanotubes. Physical Review B, 2004, 69, .	3.2	70
45	Double-walled carbon nanotube dispersion via surfactant substitution. Journal of Materials Chemistry, 2009, 19, 2729.	6.7	70
46	Toughening and hardening in double-walled carbon nanotube/nanostructured magnesia composites. Carbon, 2010, 48, 1952-1960.	10.3	70
47	Hydrogen Storage in High Surface Area Carbon Nanotubes Produced by Catalytic Chemical Vapor Deposition. Journal of Physical Chemistry B, 2004, 108, 12718-12723.	2.6	69
48	Double-Wall Carbon Nanotubes for Wide-Band, Ultrafast Pulse Generation. ACS Nano, 2014, 8, 4836-4847.	14.6	66
49	High strength â€“ High conductivity double-walled carbon nanotube â€“ Copper composite wires. Carbon, 2016, 96, 212-215.	10.3	65
50	Carbon nanotube ecotoxicity in amphibians: assessment of multiwalled carbon nanotubes and comparison with double-walled carbon nanotubes. Nanomedicine, 2010, 5, 963-974.	3.3	63
51	Inhibition of microbial growth by carbon nanotube networks. Nanoscale, 2013, 5, 9023.	5.6	63
52	Electron beam induced in situ clusterisation of 1D ZrCl4 chains within single-walled carbon nanotubes. Chemical Communications, 2001, , 845-846.	4.1	61
53	High yield incorporation and washing properties of halides incorporated into single walled carbon nanotubes. Applied Physics A: Materials Science and Processing, 2003, 76, 457-462.	2.3	61
54	Ultrafast Raman laser mode-locked by nanotubes. Optics Letters, 2011, 36, 3996.	3.3	60

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55	Chronic toxicity of double-walled carbon nanotubes to three marine organisms: influence of different dispersion methods. Nanomedicine, 2010, 5, 951-961.	3.3	57
56	Complement activation by carbon nanotubes and its influence on the phagocytosis and cytokine response by macrophages. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1287-1299.	3.3	57
57	Anisotropic mechanical and functional properties of graphene-based alumina matrix nanocomposites. Journal of the European Ceramic Society, 2016, 36, 2075-2086.	5.7	57
58	Environmental impact of engineered carbon nanoparticles: from releases to effects on the aquatic biota. Current Opinion in Biotechnology, 2017, 46, 1-6.	6.6	57
59	Microstructure, microhardness and thermal expansion of CNT/Al composites prepared by flake powder metallurgy. Composites Part A: Applied Science and Manufacturing, 2018, 105, 126-137.	7.6	56
60	Modification of Al Current Collector/Active Material Interface for Power Improvement of Electrochemical Capacitor Electrodes. Journal of the Electrochemical Society, 2006, 153, A649.	2.9	55
61	International amphibian micronucleus standardized procedure (ISO 21427â€1) for in vivo evaluation of doubleâ€walled carbon nanotubes toxicity and genotoxicity in water. Environmental Toxicology, 2011, 26, 136-145.	4.0	51
62	Direct Imaging of the Structure, Relaxation, and Sterically Constrained Motion of Encapsulated Tungsten Polyoxometalate Lindqvist Ions within Carbon Nanotubes. ACS Nano, 2008, 2, 966-976.	14.6	50
63	Biocompatible polymer-assisted dispersion of multi walled carbon nanotubes in water, application to the investigation of their ecotoxicity using Xenopus laevis amphibian larvae. Carbon, 2013, 54, 175-191.	10.3	50
64	Stability of Fluorinated Double-Walled Carbon Nanotubes Produced by Different Fluorination Techniques. Chemistry of Materials, 2010, 22, 4197-4203.	6.7	49
65	Carbon nanofiber-PEDOT composite films as novel microelectrode for neural interfaces and biosensing. Biosensors and Bioelectronics, 2020, 165, 112413.	10.1	49
66	Controlled laser heating of carbon nanotubes. Applied Physics Letters, 2006, 88, 173113.	3.3	47
67	Uptake and Release of Doubleâ€Walled Carbon Nanotubes by Mammalian Cells. Advanced Functional Materials, 2010, 20, 3272-3279.	14.9	47
68	A comparative study on few-layer graphene production by exfoliation of different starting materials in a low boiling point solvent. FlatChem, 2017, 1, 74-88.	5.6	47
69	Elucidation of the Role of Carbon Nanotube Patterns on the Development of Cultured Neuronal Cells. Langmuir, 2012, 28, 17363-17371.	3.5	46
70	Design of double-walled carbon nanotubes for biomedical applications. Nanotechnology, 2012, 23, 365102.	2.6	46
71	AFM imaging of functionalized carbon nanotubes on biological membranes. Nanotechnology, 2009, 20, 434001.	2.6	45
72	Writing simple RF electronic devices on paper with carbon nanotube ink. Nanotechnology, 2009, 20, 375203.	2.6	44

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73	Optimising DNA binding to carbon nanotubes by non-covalent methods. Carbon, 2011, 49, 1775-1781.	10.3	44
74	Double-walled carbon nanotubes: Quantitative purification assessment, balance between purification and degradation and solution filling as an evidence of opening. Carbon, 2014, 78, 79-90.	10.3	44
75	Effectiveness of a twoâ€stage strategy with <scp>HPV</scp> testing followed by visual inspection with acetic acid for cervical cancer screening in a lowâ€income setting. International Journal of Cancer, 2015, 136, E743-50.	5.1	44
76	Gate-Dependent Magnetoresistance Phenomena in Carbon Nanotubes. Physical Review Letters, 2005, 94, 066801.	7.8	43
77	Carbon Nanotubes by a CVD Method. Part II: Formation of Nanotubes from (Mg, Fe)O Catalysts. Journal of Physical Chemistry B, 2002, 106, 13199-13210.	2.6	42
78	Improving photovoltaic response of poly(3-hexylthiophene)/n-Si heterojunction by incorporating double walled carbon nanotubes. Applied Physics Letters, 2006, 89, 223505.	3.3	41
79	Assessment of the potentialin vivoecotoxicity of Double-Walled Carbon Nanotubes (DWNTs) in water, using the amphibianAmbystoma mexicanum. Nanotoxicology, 2007, 1, 149-156.	3.0	40
80	CCVD Synthesis of Carbonâ€Encapsulated Cobalt Nanoparticles for Biomedical Applications. Advanced Functional Materials, 2011, 21, 3583-3588.	14.9	39
81	Surface Area of Carbon Nanoparticles: A Dose Metric for a More Realistic Ecotoxicological Assessment. Nano Letters, 2016, 16, 3514-3518.	9.1	39
82	Fast and easy preparation of few-layered-graphene/magnesia powders for strong, hard and electrically conducting composites. Carbon, 2018, 136, 270-279.	10.3	39
83	Infrared-active phonons in carbon nanotubes. Physical Review B, 2006, 74, .	3.2	38
84	High energy density of primary lithium batteries working with sub-fluorinated few walled carbon nanotubes cathode. Journal of Alloys and Compounds, 2017, 726, 852-859.	5.5	38
85	Raman bands of double-wall carbon nanotubes: comparison with single- and triple-wall carbon nanotubes, and influence of annealing and electron irradiation. Journal of Raman Spectroscopy, 2007, 38, 714-720.	2.5	37
86	Short term exposure to multi-walled carbon nanotubes induce oxidative stress and DNA damage in Xenopus laevis tadpoles. Ecotoxicology and Environmental Safety, 2014, 107, 22-29.	6.0	37
87	Interaction of graphene-related materials with human intestinal cells: an in vitro approach. Nanoscale, 2016, 8, 8749-8760.	5.6	37
88	MÃ¶ssbauer spectroscopy study of MgAl2O4-matrix nanocomposite powders containing carbon nanotubes and iron-based nanoparticles. Acta Materialia, 2000, 48, 3015-3023.	7.9	36
89	Impact of the surface roughness on the electrical capacitance. Microelectronics Journal, 2006, 37, 752-758.	2.0	36
90	Experimental determination of microwave attenuation and electrical permittivity of double-walled carbon nanotubes. Applied Physics Letters, 2006, 88, 153108.	3.3	36

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91	Multi-walled carbon nanotubes, natural organic matter, and the benthic diatomNitzschia palea: â€œA sticky storyâ€• Nanotoxicology, 2015, 9, 219-229.	3.0	36
92	Organized growth of carbon nanotubes on Fe-doped alumina ceramic substrates. Carbon, 2012, 50, 3092-3095.	10.3	35
93	Effect of the fluorination technique on the surface-fluorination patterning of double-walled carbon nanotubes. Beilstein Journal of Nanotechnology, 2017, 8, 1688-1698.	2.8	35
94	Preparation and characterization of Î±-Fe nanowires located inside double wall carbon nanotubes. Chemical Physics Letters, 2008, 457, 347-351.	2.6	34
95	Human Properdin Opsonizes Nanoparticles and Triggers a Potent Pro-inflammatory Response by Macrophages without Involving Complement Activation. Frontiers in Immunology, 2018, 9, 131.	4.8	34
96	Electrical properties of double-wall carbon nanotubes nanocomposite hydrogels. Carbon, 2019, 146, 542-548.	10.3	34
97	Structural selective charge transfer in iodine-doped carbon nanotubes. Journal of Physics and Chemistry of Solids, 2006, 67, 1190-1192.	4.0	33
98	Adsorption and interactions of the bovine serum albumin-double walled carbon nanotube system. Journal of Molecular Liquids, 2018, 252, 1-8.	4.9	33
99	Chlorinated holey double-walled carbon nanotubes for relative humidity sensors. Carbon, 2019, 148, 413-420.	10.3	33
100	Carbon Nanotubes by a CVD Method. Part I:â€‰ Synthesis and Characterization of the (Mg, Fe)O Catalysts. Journal of Physical Chemistry B, 2002, 106, 13186-13198.	2.6	32
101	Nanoscale pressure effects in individual double-wall carbon nanotubes. Physical Review B, 2006, 73, .	3.2	32
102	Meta- and hybrid-CNTs: A clue for the future development of carbon nanotubes. Materials Science and Engineering C, 2007, 27, 1096-1101.	7.3	32
103	Chloroquine-enhanced gene delivery mediated by carbon nanotubes. Carbon, 2011, 49, 5348-5358.	10.3	32
104	Assessment of graphene oxide ecotoxicity at several trophic levels using aquatic microcosms. Carbon, 2020, 156, 261-271.	10.3	32
105	Study of the cytotoxicity of CCVD carbon nanotubes. Journal of Materials Science, 2006, 41, 2411-2416.	3.7	31
106	Narrow diameter double-wall carbon nanotubes: synthesis, electron microscopy and inelastic light scattering. New Journal of Physics, 2003, 5, 131-131.	2.9	30
107	A comparative study on the enzymatic biodegradability of covalently functionalized double- and multi-walled carbon nanotubes. Carbon, 2016, 100, 367-374.	10.3	30
108	One-step chemical vapor deposition synthesis and supercapacitor performance of nitrogen-doped porous carbonâ€“carbon nanotube hybrids. Beilstein Journal of Nanotechnology, 2017, 8, 2669-2679.	2.8	30

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109	Fe/Co Alloys for the Catalytic Chemical Vapor Deposition Synthesis of Single- and Double-Walled Carbon Nanotubes (CNTs). 1. The CNTâ^'Fe/Coâ^'MgO System. Journal of Physical Chemistry B, 2005, 109, 17813-17824.	2.6	29
110	Electrical conductivity and Raman imaging of double wall carbon nanotubes in a polymer matrix. Composites Science and Technology, 2011, 71, 1326-1330.	7.8	29
111	Inhibition of Cancer Cell Migration by Multiwalled Carbon Nanotubes. Advanced Healthcare Materials, 2015, 4, 1640-1644.	7.6	29
112	Few Layer Graphene sticking by biofilm of freshwater diatom Nitzschia palea as a mitigation to its ecotoxicity. Carbon, 2017, 113, 139-150.	10.3	29
113	Improving the photovoltaic response of a poly(3-octylthiophene)/n-Si heterojunction by incorporating double-walled carbon nanotubes. Nanotechnology, 2007, 18, 185708.	2.6	28
114	AFM imaging of functionalized double-walled carbon nanotubes. Ultramicroscopy, 2009, 109, 899-906.	1.9	28
115	CCVD synthesis of carbon nanotubes with W/Coâ€“MgO catalysts. Carbon, 2009, 47, 789-794.	10.3	28
116	Thermal Reduction of Graphene Oxide Mitigates Its In Vivo Genotoxicity Toward Xenopus laevis Tadpoles. Nanomaterials, 2019, 9, 584.	4.1	28
117	Carbon nanomaterials-based polymer-matrix nanocomposites for antimicrobial applications: A review. Carbon, 2021, 182, 463-483.	10.3	28
118	Synthesis of the metastable Î±-Al1.8Fe0.2O3 solid solution from precursors prepared by combustion. Journal of the European Ceramic Society, 2006, 26, 3099-3111.	5.7	27
119	Raman Spectra of Double-Wall Carbon Nanotubes under Extreme Uniaxial Stress. Nano Letters, 2008, 8, 2215-2218.	9.1	27
120	RamanGband in double-wall carbon nanotubes combiningpdoping and high pressure. Physical Review B, 2008, 78, .	3.2	27
121	Confinement of Dyes inside Boron Nitride Nanotubes: Photostable and Shifted Fluorescence down to the Near Infrared. Advanced Materials, 2020, 32, e2001429.	21.0	27
122	Spectroscopic detection of carbon nanotube interaction with amphiphilic molecules in epoxy resin composites. Journal of Applied Physics, 2005, 97, 034303.	2.5	26
123	Double walled carbon nanotubes promote the overproduction of extracellular protein-like polymers in Nitzschia palea: An adhesive response for an adaptive issue. Carbon, 2015, 88, 113-125.	10.3	26
124	Wavelength tunable soliton rains in a nanotube-mode locked Tm-doped fiber laser. Applied Physics Letters, 2018, 113, .	3.3	26
125	Synthesis of carbon nanotubesâ€“Feâ€“Al2O3 powders.. Materials Research Bulletin, 2000, 35, 661-673.	5.2	25
126	Composites of Double-Walled Carbon Nanotubes with bis-Quaterthiophene-Fluorenone Conjugated Oligomer: Spectroelectrochemical and Photovoltaic Properties. Journal of Physical Chemistry C, 2009, 113, 17347-17354.	3.1	25

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127	Charged iodide in chains behind the highly efficient iodine doping in carbon nanotubes. Physical Review Materials, 2017, 1, .	2.4	25
128	Fe/Co Alloys for the Catalytic Chemical Vapor Deposition Synthesis of Single- and Double-Walled Carbon Nanotubes (CNTs). 2. The CNTâˆ'Fe/Coâˆ'MgAl2O4 System. Journal of Physical Chemistry B, 2005, 109, 17825-17830.	2.6	24
129	Millimeter wave carbon nanotube gas sensor. Journal of Applied Physics, 2007, 101, 106103.	2.5	24
130	Charge transfer between carbon nanotubes and sulfuric acid as determined by Raman spectroscopy. Physical Review B, 2012, 85, .	3.2	24
131	Synthesis and characterization of Fe/Co/Ni alloys-MgO nanocomposite powders. Journal of Materials Chemistry, 1999, 9, 1003-1009.	6.7	23
132	In situ CCVD synthesis of carbon nanotubes within a commercial ceramic foam. Journal of Materials Chemistry, 2005, 15, 4041.	6.7	23
133	Thermal Behavior of Fluorinated Double-Walled Carbon Nanotubes. Chemistry of Materials, 2006, 18, 4967-4971.	6.7	23
134	Catalytic chemical vapor deposition synthesis of single- and double-walled carbon nanotubes from Î±-(Al1âˆ'Fe)2O3 powders and self-supported foams. Carbon, 2009, 47, 482-492.	10.3	23
135	X-ray diffraction as a tool for the determination of the structure of double-walled carbon nanotube batches. Physical Review B, 2009, 79, .	3.2	22
136	Cellular localization, accumulation and trafficking of double-walled carbon nanotubes in human prostate cancer cells. Nano Research, 2012, 5, 223-234.	10.4	22
137	Spark-plasma-sintering of double-walled carbon nanotubeâ€“magnesia nanocomposites. Scripta Materialia, 2009, 60, 741-744.	5.2	21
138	Multi-scale engineering for neuronal cell growth and differentiation. Microelectronic Engineering, 2011, 88, 1668-1671.	2.4	21
139	Structural Properties of Double-Walled Carbon Nanotubes Driven by Mechanical Interlayer Coupling. ACS Nano, 2017, 11, 4840-4847.	14.6	21
140	A Hydrogel/Carbonâ€Nanotube Needleâ€Free Device for Electrostimulated Skin Drug Delivery. ChemPhysChem, 2017, 18, 2715-2723.	2.1	21
141	Double-walled carbon nanotubes, a performing additive to enhance capacity retention of antimony anode in potassium-ion batteries. Electrochemistry Communications, 2019, 105, 106493.	4.7	21
142	Double-Walled Carbon Nanotubes in Composite Powders. Journal of Nanoscience and Nanotechnology, 2003, 3, 151-158.	0.9	21
143	Synthesis, characterization and thermal behaviour of Fe0.65Co0.35-MgAl2O4 and Fe0.65Ni0.35-MgAl2O4 nanocomposite powders. Journal of Materials Chemistry, 1997, 7, 2457-2467.	6.7	20
144	Carbon nanotube/alumina and graphite/alumina composite coatings on stainless steel for tribological applications. Materials Today Communications, 2016, 8, 118-126.	1.9	20

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145	Importance of the structural integrity of a carbon conjugated mediator for photocatalytic hydrogen generation from water over a CdSâ€“carbon nanotubeâ€“MoS₂ composite. Chemical Communications, 2016, 52, 13596-13599.	4.1	20
146	Surface area of carbon-based nanoparticles prevails on dispersion for growth inhibition in amphibians. Carbon, 2017, 119, 72-81.	10.3	20
147	Comparative study of response of four crop species exposed to carbon nanotube contamination in soil. Chemosphere, 2021, 274, 129854.	8.2	20
148	Field electron emission of double walled carbon nanotube film prepared by drop casting method. Solid-State Electronics, 2007, 51, 788-792.	1.4	19
149	Synthesis of superparamagnetic iron(iii) oxide nanowires in double-walled carbon nanotubes. Chemical Communications, 2009, , 6664.	4.1	19
150	Magneto-Coulomb Effect in Carbon Nanotube Quantum Dots Filled with Magnetic Nanoparticles. Physical Review Letters, 2011, 107, 186804.	7.8	19
151	Preferred attachment of fluorine near oxygen-containing groups on the surface of double-walled carbon nanotubes. Applied Surface Science, 2020, 504, 144357.	6.1	19
152	Catalytic Combustion of Methane over Cobaltâ€“Magnesium Oxide Solid Solution Catalysts. Catalysis Letters, 2001, 75, 65-71.	2.6	18
153	Spark plasma sintering of double-walled carbon nanotubes. Carbon, 2008, 46, 1812-1816.	10.3	18
154	Examining the impact of multi-layer graphene using cellular and amphibian models. 2D Materials, 2016, 3, 025009.	4.4	18
155	Graphene oxide impairs the pollen performance of Nicotiana tabacum and Corylus avellana suggesting potential negative effects on the sexual reproduction of seed plants. Environmental Science: Nano, 2018, 5, 1608-1617.	4.3	18
156	Probing the electronic properties of individual carbon nanotube in 35 T pulsed magnetic field. Chemical Physics Letters, 2003, 372, 733-738.	2.6	17
157	Surface Composition of Carbon Nanotubes-Fe-Alumina Nanocomposite Powders:â€‰ An Integral Low-Energy Electron MÃ¶ssbauer Spectroscopic Study. Journal of Physical Chemistry C, 2008, 112, 5756-5761.	3.1	17
158	A simple and versatile micro contact printing method for generating carbon nanotubes patterns on various substrates. Microelectronic Engineering, 2012, 97, 301-305.	2.4	17
159	A combination of capillary and dielectrophoresis-driven assembly methods for wafer scale integration of carbon-nanotube-based nanocarpets. Nanotechnology, 2012, 23, 095303.	2.6	17
160	Quantitative detection of carbon nanotubes in biological samples by an original method based on microwave permittivity measurements. Carbon, 2015, 81, 535-545.	10.3	17
161	Carbon Nanotube Based Dielectric for Enhanced RF MEMS Reliability. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	16
162	Chemical functionalization of Xanthan gum for the dispersion of double-walled carbon nanotubes in water. Carbon, 2013, 62, 149-156.	10.3	16

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163	Structural discrimination of double-walled carbon nanotubes by chiral diporphyrin nanocalipers. Journal of Materials Chemistry A, 2014, 2, 19067-19074.	10.3	16
164	A new insight on the mechanisms of filling closed carbon nanotubes with molten metal iodides. Carbon, 2016, 110, 48-50.	10.3	16
165	Relationship between heating atmosphere and copper foil impurities during graphene growth via low pressure chemical vapor deposition. Carbon, 2016, 109, 529-541.	10.3	16
166	Structure of inorganic nanocrystals confined within carbon nanotubes. Inorganica Chimica Acta, 2019, 492, 66-75.	2.4	16
167	Ecotoxicological assessment of commercial boron nitride nanotubes toward Xenopus laevis tadpoles and host-associated gut microbiota. Nanotoxicology, 2021, 15, 35-51.	3.0	16
168	A single-molecule approach to explore binding, uptake and transport of cancer cell targeting nanotubes. Nanotechnology, 2014, 25, 125704.	2.6	15
169	Light scattering of double wall carbon nanotubes under hydrostatic pressure: pressure effects on the internal and external tubes. Physica Status Solidi (B): Basic Research, 2004, 241, 3360-3366.	1.5	14
170	Surface Properties, Porosity, Chemical and Electrochemical Applications. , 2006, , 495-549.		14
171	Dramatic enhancement of double-walled carbon nanotube quality through a one-pot tunable purification method. Carbon, 2016, 110, 292-303.	10.3	14
172	Short-length carbon nanotubes as building blocks for high dielectric constant materials in the terahertz range. Journal Physics D: Applied Physics, 2017, 50, 08LT01.	2.8	14
173	Bromine polycondensation in pristine and fluorinated graphitic carbons. Nanoscale, 2019, 11, 15298-15306.	5.6	14
174	Protecting Carbon Nanotubes from Oxidation for Selective Carbon Impurity Elimination. Journal of Physical Chemistry C, 2019, 123, 14725-14733.	3.1	14
175	One-step synthesis of few-layered-graphene/alumina powders for strong and tough composites with high electrical conductivity. Journal of the European Ceramic Society, 2020, 40, 5779-5789.	5.7	14
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