

E Flahaut

List of Publications by Year in descending order

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85
papers

7,355
citations

101543

36
h-index

64796

79
g-index

86
all docs

86
docs citations

86
times ranked

9943
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	Carbon nanotube-metal oxide nanocomposites: microstructure, electrical conductivity and mechanical properties. Acta Materialia, 2000, 48, 3803-3812.	7.9	438
3	Complement activation and protein adsorption by carbon nanotubes. Molecular Immunology, 2006, 43, 193-201.	2.2	395
4	Carbon nanotubes in novel ceramic matrix nanocomposites. Ceramics International, 2000, 26, 677-683.	4.8	370
5	High power density electrodes for Carbon supercapacitor applications. Electrochimica Acta, 2005, 50, 4174-4181.	5.2	327
6	The weight and density of carbon nanotubes versus the number of walls and diameter. Carbon, 2010, 48, 2994-2996.	10.3	242
7	Synthesis of single-walled carbon nanotube-Co-MgO composite powders and extraction of the nanotubes. Journal of Materials Chemistry, 2000, 10, 249-252.	6.7	237
8	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
9	Influence of carbon nanotubes addition on carbon-carbon supercapacitor performances in organic electrolyte. Journal of Power Sources, 2005, 139, 371-378.	7.8	222
10	Elimination of D-band in Raman spectra of double-wall carbon nanotubes by oxidation. Chemical Physics Letters, 2005, 402, 422-427.	2.6	201
11	Two layer 4:4 co-ordinated KI crystals grown within single walled carbon nanotubes. Chemical Physics Letters, 2000, 329, 61-65.	2.6	170
12	In Situ Raman Spectroscopy Study of Oxidation of Double- and Single-Wall Carbon Nanotubes. Chemistry of Materials, 2006, 18, 1525-1533.	6.7	161
13	Aligned carbon nanotubes in ceramic-matrix nanocomposites prepared by high-temperature extrusion. Chemical Physics Letters, 2002, 352, 20-25.	2.6	159
14	CCVD Synthesis and Characterization of Cobalt-Encapsulated Nanoparticles. Chemistry of Materials, 2002, 14, 2553-2558.	6.7	154
15	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
16	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
17	Hybrid carbon nanotubes: Strategy, progress, and perspectives. Journal of Materials Research, 2006, 21, 2774-2793.	2.6	122
18	Investigation of the cytotoxicity of CCVD carbon nanotubes towards human umbilical vein endothelial cells. Carbon, 2006, 44, 1093-1099.	10.3	101

#	ARTICLE	IF	CITATIONS
19	Crystallization of 2H and 4H PbI ₂ in Carbon Nanotubes of Varying Diameters and Morphologies. <i>Chemistry of Materials</i> , 2006, 18, 2059-2069.	6.7	86
20	Carbon nanotubes induce inflammation but decrease the production of reactive oxygen species in lung. <i>Toxicology</i> , 2010, 272, 39-45.	4.2	82
21	Bromination of Double-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2012, 24, 2708-2715.	6.7	76
22	Mid-infrared Raman-soliton continuum pumped by a nanotube-mode-locked sub-picosecond Tm-doped MOPFA. <i>Optics Express</i> , 2013, 21, 23261.	3.4	74
23	An investigation of carbon nanotubes obtained from the decomposition of methane over reduced Mg _{1-x} Al ₂ O ₄ spinel catalysts. <i>Journal of Materials Research</i> , 1999, 14, 2567-2576.	2.6	72
24	Rings of Double-Walled Carbon Nanotube Bundles. <i>Nano Letters</i> , 2003, 3, 685-689.	9.1	72
25	Raman spectroscopy of iodine-doped double-walled carbon nanotubes. <i>Physical Review B</i> , 2004, 69, .	3.2	70
26	High yield incorporation and washing properties of halides incorporated into single walled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2003, 76, 457-462.	2.3	61
27	Ultrafast Raman laser mode-locked by nanotubes. <i>Optics Letters</i> , 2011, 36, 3996.	3.3	60
28	Anisotropic mechanical and functional properties of graphene-based alumina matrix nanocomposites. <i>Journal of the European Ceramic Society</i> , 2016, 36, 2075-2086.	5.7	57
29	Stability of Fluorinated Double-Walled Carbon Nanotubes Produced by Different Fluorination Techniques. <i>Chemistry of Materials</i> , 2010, 22, 4197-4203.	6.7	49
30	AFM imaging of functionalized carbon nanotubes on biological membranes. <i>Nanotechnology</i> , 2009, 20, 434001.	2.6	45
31	Writing simple RF electronic devices on paper with carbon nanotube ink. <i>Nanotechnology</i> , 2009, 20, 375203.	2.6	44
32	Gate-Dependent Magnetoresistance Phenomena in Carbon Nanotubes. <i>Physical Review Letters</i> , 2005, 94, 066801.	7.8	43
33	Improving photovoltaic response of poly(3-hexylthiophene)/n-Si heterojunction by incorporating double walled carbon nanotubes. <i>Applied Physics Letters</i> , 2006, 89, 223505.	3.3	41
34	Infrared-active phonons in carbon nanotubes. <i>Physical Review B</i> , 2006, 74, .	3.2	38
35	Raman bands of double-wall carbon nanotubes: comparison with single- and triple-wall carbon nanotubes, and influence of annealing and electron irradiation. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 714-720.	2.5	37
36	Interaction of graphene-related materials with human intestinal cells: an in vitro approach. <i>Nanoscale</i> , 2016, 8, 8749-8760.	5.6	37

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37	Mössbauer spectroscopy study of MgAl ₂ O ₄ -matrix nanocomposite powders containing carbon nanotubes and iron-based nanoparticles. <i>Acta Materialia</i> , 2000, 48, 3015-3023.	7.9	36
38	Impact of the surface roughness on the electrical capacitance. <i>Microelectronics Journal</i> , 2006, 37, 752-758.	2.0	36
39	Experimental determination of microwave attenuation and electrical permittivity of double-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2006, 88, 153108.	3.3	36
40	Structural selective charge transfer in iodine-doped carbon nanotubes. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 1190-1192.	4.0	33
41	Chlorinated holey double-walled carbon nanotubes for relative humidity sensors. <i>Carbon</i> , 2019, 148, 413-420.	10.3	33
42	Study of the cytotoxicity of CCVD carbon nanotubes. <i>Journal of Materials Science</i> , 2006, 41, 2411-2416.	3.7	31
43	Narrow diameter double-wall carbon nanotubes: synthesis, electron microscopy and inelastic light scattering. <i>New Journal of Physics</i> , 2003, 5, 131-131.	2.9	30
44	Improving the photovoltaic response of a poly(3-octylthiophene)/n-Si heterojunction by incorporating double-walled carbon nanotubes. <i>Nanotechnology</i> , 2007, 18, 185708.	2.6	28
45	AFM imaging of functionalized double-walled carbon nanotubes. <i>Ultramicroscopy</i> , 2009, 109, 899-906.	1.9	28
46	CCVD synthesis of carbon nanotubes with W/Co/MgO catalysts. <i>Carbon</i> , 2009, 47, 789-794.	10.3	28
47	Wavelength tunable soliton rains in a nanotube-mode locked Tm-doped fiber laser. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	26
48	Synthesis of carbon nanotubes/Fe/Al ₂ O ₃ powders.. <i>Materials Research Bulletin</i> , 2000, 35, 661-673.	5.2	25
49	Millimeter wave carbon nanotube gas sensor. <i>Journal of Applied Physics</i> , 2007, 101, 106103.	2.5	24
50	Thermal Behavior of Fluorinated Double-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2006, 18, 4967-4971.	6.7	23
51	X-ray diffraction as a tool for the determination of the structure of double-walled carbon nanotube batches. <i>Physical Review B</i> , 2009, 79, .	3.2	22
52	Double-Walled Carbon Nanotubes in Composite Powders. <i>Journal of Nanoscience and Nanotechnology</i> , 2003, 3, 151-158.	0.9	21
53	Surface area of carbon-based nanoparticles prevails on dispersion for growth inhibition in amphibians. <i>Carbon</i> , 2017, 119, 72-81.	10.3	20
54	Field electron emission of double walled carbon nanotube film prepared by drop casting method. <i>Solid-State Electronics</i> , 2007, 51, 788-792.	1.4	19

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55	Magneto-Coulomb Effect in Carbon Nanotube Quantum Dots Filled with Magnetic Nanoparticles. <i>Physical Review Letters</i> , 2011, 107, 186804.	7.8	19
56	Preferred attachment of fluorine near oxygen-containing groups on the surface of double-walled carbon nanotubes. <i>Applied Surface Science</i> , 2020, 504, 144357.	6.1	19
57	Probing the electronic properties of individual carbon nanotube in 35 T pulsed magnetic field. <i>Chemical Physics Letters</i> , 2003, 372, 733-738.	2.6	17
58	A single-molecule approach to explore binding, uptake and transport of cancer cell targeting nanotubes. <i>Nanotechnology</i> , 2014, 25, 125704.	2.6	15
59	Light scattering of double wall carbon nanotubes under hydrostatic pressure: pressure effects on the internal and external tubes. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 3360-3366.	1.5	14
60	Surface Properties, Porosity, Chemical and Electrochemical Applications. , 2006, , 495-549.		14
61	Similarities in the Raman RBM and D bands in double-wall carbon nanotubes. <i>Physical Review B</i> , 2005, 72, .	3.2	13
62	High performance thin film bulk acoustic resonator covered with carbon nanotubes. <i>Applied Physics Letters</i> , 2006, 89, 143122.	3.3	13
63	Hydrophobic double walled carbon nanotubes interaction with phospholipidic model membranes: ¹ H-, ² H-, ³¹ P NMR and ESR study. <i>Environmental Toxicology and Pharmacology</i> , 2010, 30, 147-152.	4.0	12
64	Formation of Nanofibers and Nanotubes Production. , 2004, , 1-129.		10
65	Effect of ultrasound pretreatment on bromination of double-walled carbon nanotubes. <i>Synthetic Metals</i> , 2020, 259, 116233.	3.9	10
66	Optical Absorption and Raman Spectroscopy Study of the Fluorinated Double-Wall Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006, 14, 233-238.	2.1	9
67	The Unexpected Complexity of Filling Double-Wall Carbon Nanotubes With Nickel (and Iodine) 1-D Nanocrystals. <i>IEEE Nanotechnology Magazine</i> , 2017, 16, 759-766.	2.0	7
68	Synthesis of 1D P-block halide crystals within single walled carbon nanotubes. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	6
69	Carbon nanotubes-based microwave and millimeter wave sensors. , 2007, , .		6
70	Observation of strong Kondo like features and co-tunnelling in superparamagnetic GdCl ₃ filled 1D nanomagnets. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	6
71	The characterization of sub-nanometer scale structures within single walled carbon nanotubes. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	5
72	Influence of carbonaceous electrodes on capacitance and breakdown voltage for hybrid capacitor. <i>Microelectronics Journal</i> , 2007, 38, 642-648.	2.0	4

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73	Pressure dependence of Raman modes in DWCNT filled with PbI ₂ semiconductor. Physica Status Solidi (B): Basic Research, 2007, 244, 136-141.	1.5	4
74	Carbon nanotube-based polymer composites for microwave applications. , 2008, , .		4
75	Filling of Carbon Nanotubes with Compounds in Solution or Melted Phase. Carbon Nanostructures, 2011, , 41-65.	0.1	4
76	Electrical properties and reactivity under air-CO flows of composite systems based on ceria coated carbon nanotubes. Chemical Engineering Journal, 2011, 171, 272-278.	12.7	4
77	Study of cytotoxicity performance of carbon nanohorns by method of spin probes. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 737-744.	2.1	3
78	The Crystallography of Metal Halides formed within Single Walled Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2000, 633, 14311.	0.1	2
79	Tunability of Carbon NanoTubes Resistance Deposited by Inkjet Printing at Low Temperature. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	2
80	Toxicity and Environmental Impact of Carbon Nanotubes. Carbon Nanostructures, 2011, , 211-219.	0.1	2
81	1D P-Block Halide Crystals Confined into Single Walled Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2000, 633, 13151.	0.1	1
82	Observation of a superparamagnetic breakdown in gadolinium chloride filled double-walled carbon nanotubes. AIP Advances, 2021, 11, 035206.	1.3	1
83	Double-walled carbon nanotubes suspending by natural active substances (saponins and humic acids). MATEC Web of Conferences, 2013, 5, 04027.	0.2	0
84	The unexpected complexity of filling double-wall carbon nanotubes with iodine-based 1D nanocrystals. , 2016, , .		0
85	Double-Walled Carbon Nanotubes: Synthesis and Filling by 1-D Nanocrystals. , 2005, , 281-286.		0