Marc Monthioux

List of Publications by Year
in descending order

72	7,065	109321 35	82547 72
papers	citations	h-index	g-index

81	81	81	8087
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The X-ray, Raman and TEM Signatures of Cellulose-Derived Carbons Explained. Journal of Carbon Research, 2022, 8, 4.	2.7	8
2	Asymmetrical Cross-Sectional Buckling in Arc-Prepared Multiwall Carbon Nanotubes Revealed by Iodine Filling. Journal of Carbon Research, 2022, 8, 10.	2.7	0
3	Burn Them Right! Determining the Optimal Temperature for the Purification of Carbon Materials by Combustion. Journal of Carbon Research, 2022, 8, 31.	2.7	3
4	Texture, Nanotexture, and Structure of Carbon Nanotube-Supported Carbon Cones. ACS Nano, 2022, 16, 9287-9296.	14.6	7
5	Intense Raman D Band without Disorder in Flattened Carbon Nanotubes. ACS Nano, 2021, 15, 596-603.	14.6	44
6	Progress on Diamane and Diamanoid Thin Film Pressureless Synthesis. Journal of Carbon Research, 2021, 7, 9.	2.7	11
7	Ultra-Thin Carbon Films: The Rise of sp3-C-Based 2D Materials?. Journal of Carbon Research, 2021, 7, 30.	2.7	2
8	Combining low and high electron energy diffractions as a powerful tool for studying 2D materials. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	1
9	Superior carbon nanotube stability by molecular filling:a single-chirality study at extreme pressures. Carbon, 2021, 183, 884-892.	10.3	7
10	Unveiling the existence and role of a liquid phase in a high temperature (1400 Â°C) pyrolytic carbon deposition process. Carbon Trends, 2021, 5, 100117.	3.0	5
11	Towards a better understanding of the structure of diamanoÃ¯ds and diamanoÃ¯d/graphene hybrids. Carbon, 2020, 156, 234-241.	10.3	40
12	Raman evidence for the successful synthesis of diamane. Carbon, 2020, 169, 129-133.	10.3	49
13	Comments on: â€œStructure evolution mechanism of highly ordered graphite during carbonization of cellulose nanocrystalsâ€• by Eom etÂ al. [Carbon 150 (2019) 142â€"152]. Carbon, 2020, 160, 405-406.	10.3	7
14	New insight on carbonisation and graphitisation mechanisms as obtained from a bottom-up analytical approach of X-ray diffraction patterns. Carbon, 2019, 147, 602-611.	10.3	39
15	Why some carbons may or may not graphitize? The point of view of thermodynamics. Carbon, 2019, 149, 419-435.	10.3	38
16	Analyzing the Raman Spectra of Graphenic Carbon Materials from Kerogens to Nanotubes: What Type of Information Can Be Extracted from Defect Bands?. Journal of Carbon Research, 2019, 5, 69.	2.7	91
17	Low temperature, pressureless sp2 to sp3 transformation of ultrathin, crystalline carbon films. Carbon, 2019, 145, 10-22.	10.3	64
18	Largeâ€scale oxidation of multiâ€walled carbon nanotubes in fluidized bed from ozoneâ€containing gas mixtures. Canadian Journal of Chemical Engineering, 2018, 96, 688-695.	1.7	1

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19	Determining the structure of graphene-based flakes from their morphotype. Carbon, 2017, 115, 128-133.	10.3	10
20	The Unexpected Complexity of Filling Double-Wall Carbon Nanotubes With Nickel (and Iodine) 1-D Nanocrystals. IEEE Nanotechnology Magazine, 2017, 16, 759-766.	2.0	7
21	200â€‰keV cold field emission source using carbon cone nanotip: Application to scanning transmission electron microscopy. Ultramicroscopy, 2017, 182, 303-307.	1.9	19
22	Charged iodide in chains behind the highly efficient iodine doping in carbon nanotubes. Physical Review Materials, 2017, 1, .	2.4	25
23	A new insight on the mechanisms of filling closed carbon nanotubes with molten metal iodides. Carbon, 2016, 110, 48-50.	10.3	16
24	Spatial confinement model applied to phonons in disordered graphene-based carbons. Carbon, 2016, 105, 275-281.	10.3	26
25	Carbon science in 2016: Status, challenges and perspectives. Carbon, 2016, 98, 708-732.	10.3	261
26	Behavior of Raman D band for pyrocarbons with crystallite size in the 2â€“5 nm range. Applied Physics A: Materials Science and Processing, 2014, 114, 759-763.	2.3	38
27	A Raman study to obtain crystallite size of carbon materials: A better alternative to the Tuinstraâ€“Koenig law. Carbon, 2014, 80, 629-639.	10.3	186
28	Determining the work function of a carbon-cone cold-field emitter by in situ electron holography. Micron, 2014, 63, 2-8.	2.2	25
29	Inhibition of microbial growth by carbon nanotube networks. Nanoscale, 2013, 5, 9023.	5.6	63
30	Electronic coupling in fullerene-doped semiconducting carbon nanotubes probed by Raman spectroscopy and electronic transport. Carbon, 2013, 57, 498-506.	10.3	8
31	Resonant Laserâ€Induced Formation of Doubleâ€Walled Carbon Nanotubes from Peapods under Ambient Conditions. Small, 2012, 8, 2045-2052.	10.0	9
32	New carbon cone nanotip for use in a highly coherent cold field emission electron microscope. Carbon, 2012, 50, 2037-2044.	10.3	66
33	Contact Angle Hysteresis at the Nanometer Scale. Physical Review Letters, 2011, 106, 136102.	7.8	95
34	Electrical Detection of Individual Magnetic Nanoparticles Encapsulated in Carbon Nanotubes. ACS Nano, 2011, 5, 2348-2355.	14.6	37
35	Response to â€œComment on the Effect of Stress Transfer Within Doubleâ€Walled Carbon Nanotubes upon Their Ability to Reinforce Compositesâ€• Advanced Materials, 2010, 22, 1180-1181.	21.0	3
36	Chirality dependent surface adhesion of single-walled carbon nanotubes on graphene surfaces. Carbon, 2010, 48, 3050-3056.	10.3	16

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37	Formation mechanism of peapod-derived double-walled carbon nanotubes. Physical Review B, 2010, 82, .	3.2	29
38	Transport via coupled states in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>C</mml:mtext><mml:mrow><mml:mn>60</mml:mn></mml:mrow></mml:msu quantum dot. Physical Review B, 2010, 81, .	3.2	22
39	Nanoelectromechanical coupling in fullerene peapods probed by resonant electrical transport experiments. Nature Communications, 2010, 1, 37.	12.8	30
40	Introduction to Carbon Nanotubes. , 2010, , 47-118.		26
41	The Effect of Stress Transfer Within Doubleâ€Walled Carbon Nanotubes Upon Their Ability to Reinforce Composites. Advanced Materials, 2009, 21, 3591-3595.	21.0	71
42	Evidence for electro-chemical interactions between multi-walled carbon nanotubes and human macrophages. Carbon, 2009, 47, 2789-2804.	10.3	21
43	Solutions of Negatively Charged Graphene Sheets and Ribbons. Journal of the American Chemical Society, 2008, 130, 15802-15804.	13.7	444
44	Ultraviolet photon absorption in single- and double-wall carbon nanotubes and peapods: Heating-induced phonon line broadening, wall coupling, and transformation. Physical Review B, 2007, 76, .	3.2	9
45	Orientation ofC70molecules in peapods as a function of the nanotube diameter. Physical Review B, 2007, 75, .	3.2	37
46	High performance supercapacitor from chromium oxide-nanotubes based electrodes. Chemical Physics Letters, 2007, 434, 73-77.	2.6	43
47	A significant improvement of both yield and purity during SWCNT synthesis via the electric arc process. Carbon, 2007, 45, 1651-1661.	10.3	30
48	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
49	Introduction to Carbon Nanotubes. , 2007, , 43-112.		25
50	Evidence for the benefit of adding a carbon interphase in an all-carbon composite. Carbon, 2006, 44, 699-709.	10.3	18
51	Toxicology of carbon nanomaterials: Status, trends, and perspectives on the special issue. Carbon, 2006, 44, 1028-1033.	10.3	302
52	Chemical vapour deposition of pyrolytic carbon on carbon nanotubes. Carbon, 2006, 44, 3183-3194.	10.3	51
53	Sub-Kelvin transport spectroscopy of fullerene peapod quantum dots. Applied Physics Letters, 2006, 89, 233118.	3.3	28
54	Chemical vapor deposition of pyrolytic carbon on carbon nanotubes. Part 2. Texture and structure. Carbon, 2005, 43, 1265-1278.	10.3	61

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55	Introduction to Carbon Nanotubes. , 2004, , 39-98.		6
56	Introduction to Carbon Nanotubes. , 2004, , 39-98.		1
57	Chemical vapor deposition of pyrolytic carbon on carbon nanotubes. Carbon, 2003, 41, 2897-2912.	10.3	48
58	Filling single-wall carbon nanotubes. Carbon, 2002, 40, 1809-1823.	10.3	439
59	Room temperature filling of single-wall carbon nanotubes with chromium oxide in open air. Chemical Physics Letters, 2001, 339, 311-318.	2.6	79
60	Abundance of encapsulated C60 in single-wall carbon nanotubes. Chemical Physics Letters, 1999, 310, 21-24.	2.6	172
61	Carbon nanotube encapsulated fullerenes: a unique class of hybrid materials. Chemical Physics Letters, 1999, 315, 31-36.	2.6	252
62	Encapsulated C60 in carbon nanotubes. Nature, 1998, 396, 323-324.	27.8	1,438
63	Carbon beads with protruding cones. Nature, 1997, 385, 211-212.	27.8	41
64	Carbon-fibre-reinforced (YMAS) glass-ceramic matrix composites. I. Preparation, structure and fracture strength. Journal of the European Ceramic Society, 1997, 17, 1485-1500.	5.7	15
65	Mechanical properties of C/SiC composites as explained from their interfacial features. Journal of the European Ceramic Society, 1995, 15, 209-224.	5.7	37
66	The graphitizability of fullerenes and related textures. Carbon, 1994, 32, 335-343.	10.3	19
67	Spectroscopic analyses of aromatic hydrocarbons extracted from naturally and artificially matured coals. Energy & Fuels, 1992, 6, 166-172.	5.1	47
68	Pyrolysis of organic matter in cold-seal pressure autoclaves. Experimental approach and applications. Journal of Analytical and Applied Pyrolysis, 1989, 16, 103-115.	5.5	56
69	Natural and artificial maturations of a coal series: infrared spectrometry study. Energy & Fuels, 1988, 2, 794-801.	5.1	31
70	Comparison between extracts from natural and artificial maturation series of Mahakam delta coals. Organic Geochemistry, 1986, 10, 299-311.	1.8	88
71	Comparison between natural and artificial maturation series of humic coals from the Mahakam delta, Indonesia. Organic Geochemistry, 1985, 8, 275-292.	1.8	217
72	Importance of the oxidation/maturation pair in the evolution of humic coals. Organic Geochemistry, 1984, 7, 249-260.	1.8	45