

Marc Monthioux

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.

75
papers

5,850
citations

30
h-index

76
g-index

81
ext. papers

6,465
ext. citations

8.9
avg, IF

5.73
L-index

#	Paper	IF	Citations
75	Encapsulated C60 in carbon nanotubes. <i>Nature</i> , 1998 , 396, 323-324	50.4	1269
74	Solutions of negatively charged graphene sheets and ribbons. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15802-4	16.4	410
73	Filling single-wall carbon nanotubes. <i>Carbon</i> , 2002 , 40, 1809-1823	10.4	402
72	Toxicology of carbon nanomaterials: Status, trends, and perspectives on the special issue. <i>Carbon</i> , 2006 , 44, 1028-1033	10.4	266
71	Carbon nanotube encapsulated fullerenes: a unique class of hybrid materials. <i>Chemical Physics Letters</i> , 1999 , 315, 31-36	2.5	223
70	Comparison between natural and artificial maturation series of humic coals from the Mahakam delta, Indonesia. <i>Organic Geochemistry</i> , 1985 , 8, 275-292	3.1	204
69	Carbon science in 2016: Status, challenges and perspectives. <i>Carbon</i> , 2016 , 98, 708-732	10.4	200
68	Abundance of encapsulated C60 in single-wall carbon nanotubes. <i>Chemical Physics Letters</i> , 1999 , 310, 21-24	2.5	147
67	A Raman study to obtain crystallite size of carbon materials: A better alternative to the Tuinstra-Koenig law. <i>Carbon</i> , 2014 , 80, 629-639	10.4	119
66	Comparison between extracts from natural and artificial maturation series of Mahakam delta coals. <i>Organic Geochemistry</i> , 1986 , 10, 299-311	3.1	80
65	Contact angle hysteresis at the nanometer scale. <i>Physical Review Letters</i> , 2011 , 106, 136102	7.4	76
64	Room temperature filling of single-wall carbon nanotubes with chromium oxide in open air. <i>Chemical Physics Letters</i> , 2001 , 339, 311-318	2.5	68
63	The Effect of Stress Transfer Within Double-Walled Carbon Nanotubes Upon Their Ability to Reinforce Composites. <i>Advanced Materials</i> , 2009 , 21, 3591-3595	24	64
62	Pyrolysis of organic matter in cold-seal pressure autoclaves. Experimental approach and applications. <i>Journal of Analytical and Applied Pyrolysis</i> , 1989 , 16, 103-115	6	54
61	New carbon cone nanotip for use in a highly coherent cold field emission electron microscope. <i>Carbon</i> , 2012 , 50, 2037-2044	10.4	52
60	Chemical vapor deposition of pyrolytic carbon on carbon nanotubes. Part 2. Texture and structure. <i>Carbon</i> , 2005 , 43, 1265-1278	10.4	52
59	Inhibition of microbial growth by carbon nanotube networks. <i>Nanoscale</i> , 2013 , 5, 9023-9	7.7	44

58	Chemical vapour deposition of pyrolytic carbon on carbon nanotubes. <i>Carbon</i> , 2006 , 44, 3183-3194	10.4	44
57	Spectroscopic analyses of aromatic hydrocarbons extracted from naturally and artificially matured coals. <i>Energy & Fuels</i> , 1992 , 6, 166-172	4.1	43
56	Importance of the oxidation/maturation pair in the evolution of humic coals. <i>Organic Geochemistry</i> , 1984 , 7, 249-260	3.1	43
55	Analyzing the Raman Spectra of Graphenic Carbon Materials from Kerogens to Nanotubes: What Type of Information Can Be Extracted from Defect Bands?. <i>Journal of Carbon Research</i> , 2019 , 5, 69	3.3	39
54	High performance supercapacitor from chromium oxide-nanotubes based electrodes. <i>Chemical Physics Letters</i> , 2007 , 434, 73-77	2.5	38
53	Chemical vapor deposition of pyrolytic carbon on carbon nanotubes: Part 1. Synthesis and morphology. <i>Carbon</i> , 2003 , 41, 2897-2912	10.4	38
52	Low temperature, pressureless sp ² to sp ³ transformation of ultrathin, crystalline carbon films. <i>Carbon</i> , 2019 , 145, 10-22	10.4	36
51	Orientation of C70 molecules in peapods as a function of the nanotube diameter. <i>Physical Review B</i> , 2007 , 75,	3.3	35
50	Mechanical properties of C/SiC composites as explained from their interfacial features. <i>Journal of the European Ceramic Society</i> , 1995 , 15, 209-224	6	35
49	Carbon beads with protruding cones. <i>Nature</i> , 1997 , 385, 211-212	50.4	34
48	Electrical detection of individual magnetic nanoparticles encapsulated in carbon nanotubes. <i>ACS Nano</i> , 2011 , 5, 2348-55	16.7	33
47	Behavior of Raman D band for pyrocarbons with crystallite size in the 2B nm range. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 114, 759-763	2.6	29
46	Natural and artificial maturations of a coal series: infrared spectrometry study. <i>Energy & Fuels</i> , 1988 , 2, 794-801	4.1	29
45	Formation mechanism of peapod-derived double-walled carbon nanotubes. <i>Physical Review B</i> , 2010 , 82,	3.3	28
44	Sub-Kelvin transport spectroscopy of fullerene peapod quantum dots. <i>Applied Physics Letters</i> , 2006 , 89, 233118	3.4	28
43	Nanoelectromechanical coupling in fullerene peapods probed by resonant electrical transport experiments. <i>Nature Communications</i> , 2010 , 1, 37	17.4	27
42	A significant improvement of both yield and purity during SWCNT synthesis via the electric arc process. <i>Carbon</i> , 2007 , 45, 1651-1661	10.4	26
41	Raman evidence for the successful synthesis of diamane. <i>Carbon</i> , 2020 , 169, 129-133	10.4	25

40	Meta- and hybrid-CNTs: A clue for the future development of carbon nanotubes. <i>Materials Science and Engineering C</i> , 2007 , 27, 1096-1101	8.3	23
39	Towards a better understanding of the structure of diamanoñs and diamanoñ/graphene hybrids. <i>Carbon</i> , 2020 , 156, 234-241	10.4	23
38	Transport via coupled states in a C60 peapod quantum dot. <i>Physical Review B</i> , 2010 , 81,	3.3	22
37	Introduction to Carbon Nanotubes 2007 , 43-112		22
36	Evidence for electro-chemical interactions between multi-walled carbon nanotubes and human macrophages. <i>Carbon</i> , 2009 , 47, 2789-2804	10.4	21
35	Determining the work function of a carbon-cone cold-field emitter by in situ electron holography. <i>Micron</i> , 2014 , 63, 2-8	2.3	19
34	Charged iodide in chains behind the highly efficient iodine doping in carbon nanotubes. <i>Physical Review Materials</i> , 2017 , 1,	3.2	19
33	Evidence for the benefit of adding a carbon interphase in an all-carbon composite. <i>Carbon</i> , 2006 , 44, 699-709	10.4	18
32	The graphitizability of fullerenes and related textures. <i>Carbon</i> , 1994 , 32, 335-343	10.4	18
31	Spatial confinement model applied to phonons in disordered graphene-based carbons. <i>Carbon</i> , 2016 , 105, 275-281	10.4	16
30	Chirality dependent surface adhesion of single-walled carbon nanotubes on graphene surfaces. <i>Carbon</i> , 2010 , 48, 3050-3056	10.4	16
29	Why some carbons may or may not graphitize? The point of view of thermodynamics. <i>Carbon</i> , 2019 , 149, 419-435	10.4	15
28	A new insight on the mechanisms of filling closed carbon nanotubes with molten metal iodides. <i>Carbon</i> , 2016 , 110, 48-50	10.4	15
27	New insight on carbonisation and graphitisation mechanisms as obtained from a bottom-up analytical approach of X-ray diffraction patterns. <i>Carbon</i> , 2019 , 147, 602-611	10.4	13
26	Introduction to Carbon Nanotubes 2010 , 47-118		13
25	Carbon-fibre-reinforced (YMAS) glass-ceramic matrix composites. I. Preparation, structure and fracture strength. <i>Journal of the European Ceramic Society</i> , 1997 , 17, 1485-1500	6	13
24	Intense Raman D Band without Disorder in Flattened Carbon Nanotubes. <i>ACS Nano</i> , 2021 , 15, 596-603	16.7	12
23	200 keV cold field emission source using carbon cone nanotip: Application to scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2017 , 182, 303-307	3.1	11

22	Oxidation-reduction processes in the genesis of the uranium-vanadium tabular deposits of the Cottonwood Wash mining area (Utah, U.S.A.) : evidence from petrological study and organic matter analysis. <i>Bulletin De Mineralogie</i> , 1987 , 110, 145-156		9
21	Ultraviolet photon absorption in single- and double-wall carbon nanotubes and peapods: Heating-induced phonon line broadening, wall coupling, and transformation. <i>Physical Review B</i> , 2007 , 76,	3.3	8
20	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	2.6	7
19	Resonant laser-induced formation of double-walled carbon nanotubes from peapods under ambient conditions. <i>Small</i> , 2012 , 8, 2045-52	11	7
18	Electronic coupling in fullerene-doped semiconducting carbon nanotubes probed by Raman spectroscopy and electronic transport. <i>Carbon</i> , 2013 , 57, 498-506	10.4	6
17	Introduction to Carbon Nanotubes 2004 , 39-98		6
16	Determining the structure of graphene-based flakes from their morphotype. <i>Carbon</i> , 2017 , 115, 128-133	10.4	5
15	Progress on Diamane and Diamanoid Thin Film Pressureless Synthesis. <i>Journal of Carbon Research</i> , 2021 , 7, 9	3.3	5
14	Fullerenes inside Carbon Nanotubes: The Peapods 2011 , 273-321		4
13	Comments on: Structure evolution mechanism of highly ordered graphite during carbonization of cellulose nanocrystals by Eom et al. [Carbon 150 (2019) 142-152]. <i>Carbon</i> , 2020 , 160, 405-406	10.4	3
12	Response to Comment on the Effect of Stress Transfer Within Double-Walled Carbon Nanotubes upon Their Ability to Reinforce Composites <i>Advanced Materials</i> , 2010 , 22, 1180-1181	24	3
11	Filled Carbon Nanotubes: (X@CNTs) 2011 , 225-271		2
10	Superior carbon nanotube stability by molecular filling: a single-chirality study at extreme pressures. <i>Carbon</i> , 2021 , 183, 884-892	10.4	2
9	Introduction to Carbon Nanotubes 7-39		2
8	Large-scale oxidation of multi-walled carbon nanotubes in fluidized bed from ozone-containing gas mixtures. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 688-695	2.3	1
7	Introduction to the Meta-Nanotube Book 2011 , 1-5		1
6	Unveiling the existence and role of a liquid phase in a high temperature (1400°C) pyrolytic carbon deposition process. <i>Carbon Trends</i> , 2021 , 5, 100117	0	1
5	Introduction to Carbon Nanotubes 2004 , 39-98		1

4	The X-ray, Raman and TEM Signatures of Cellulose-Derived Carbons Explained. <i>Journal of Carbon Research</i> , 2022 , 8, 4	3.3	○
3	Combining low and high electron energy diffractions as a powerful tool for studying 2D materials. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	○
2	Burn Them Right! Determining the Optimal Temperature for the Purification of Carbon Materials by Combustion. <i>Journal of Carbon Research</i> , 2022 , 8, 31	3.3	○
1	Asymmetrical Cross-Sectional Buckling in Arc-Prepared Multiwall Carbon Nanotubes Revealed by Iodine Filling. <i>Journal of Carbon Research</i> , 2022 , 8, 10	3.3	