

# Catherine Journet

## List of Publications by Year in descending order

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96  
papers

9,451  
citations

101384

36  
h-index

51492

86  
g-index

99  
all docs

99  
docs citations

99  
times ranked

8545  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale production of single-walled carbon nanotubes by the electric-arc technique. <i>Nature</i> , 1997, 388, 756-758.	13.7	2,556
2	Macroscopic Fibers and Ribbons of Oriented Carbon Nanotubes. <i>Science</i> , 2000, 290, 1331-1334.	6.0	1,703
3	Supercurrents Through Single-Walled Carbon Nanotubes. <i>Science</i> , 1999, 284, 1508-1511.	6.0	407
4	Slippage of Water Past Superhydrophobic Carbon Nanotube Forests in Microchannels. <i>Physical Review Letters</i> , 2006, 97, 156104.	2.9	396
5	Hot Nanotubes: Stable Heating of Individual Multiwall Carbon Nanotubes to 2000 K Induced by the Field-Emission Current. <i>Physical Review Letters</i> , 2002, 88, 105502.	2.9	351
6	Root-Growth Mechanism for Single-Wall Carbon Nanotubes. <i>Physical Review Letters</i> , 2001, 87, 275504.	2.9	350
7	Production of carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 67, 1-9.	1.1	307
8	Characterization of singlewalled carbon nanotubes-PMMA composites. <i>Synthetic Metals</i> , 2000, 108, 139-149.	2.1	184
9	Tuning and monitoring the electronic structure of carbon nanotubes. <i>Chemical Physics Letters</i> , 1999, 305, 370-374.	1.2	159
10	Contact angle measurements on superhydrophobic carbon nanotube forests: Effect of fluid pressure. <i>Europhysics Letters</i> , 2005, 71, 104-109.	0.7	156
11	Tuning of Nanotube Mechanical Resonances by Electric Field Pulling. <i>Physical Review Letters</i> , 2002, 89, 276103.	2.9	140
12	Fabrication of highly sensitive gas sensor based on Au functionalized WO <sub>3</sub> composite nanofibers by electrospinning. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 1112-1119.	4.0	138
13	Acoustoelectric Effects in Carbon Nanotubes. <i>Physical Review Letters</i> , 2000, 85, 2829-2832.	2.9	128
14	Modelization of resistive heating of carbon nanotubes during field emission. <i>Physical Review B</i> , 2002, 66, .	1.1	127
15	Single-wall carbon nanotubes for optical limiting. <i>Chemical Physics Letters</i> , 1999, 307, 317-319.	1.2	118
16	Diameter distribution of single wall carbon nanotubes in nanobundles. <i>European Physical Journal B</i> , 2000, 18, 201-205.	0.6	109
17	Coalescence of single-walled carbon nanotubes and formation of multi-walled carbon nanotubes under high-temperature treatments. <i>Carbon</i> , 2002, 40, 1765-1773.	5.4	102
18	Determination of the binding energy of methane on single-walled carbon nanotube bundles. <i>Physical Review B</i> , 2000, 61, 13150-13154.	1.1	98

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19	Infrared active phonons in single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 1998, 294, 237-240.	1.2	97
20	Purification of catalytically produced multi-wall nanotubes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 3753-3758.	1.7	96
21	Purification procedure of carbon nanotubes. <i>Synthetic Metals</i> , 1999, 103, 2492-2493.	2.1	94
22	Single-electron transistor made of multiwalled carbon nanotube using scanning probe manipulation. <i>Applied Physics Letters</i> , 1999, 75, 728-730.	1.5	92
23	Evolution and evaluation of the polymer/nanotube composite. <i>Synthetic Metals</i> , 1999, 103, 2559-2562.	2.1	92
24	Optical limiting properties of singlewall carbon nanotubes. <i>Optics Communications</i> , 2000, 174, 271-275.	1.0	92
25	Raman studies on single walled carbon nanotubes produced by the electric arc technique. <i>Carbon</i> , 1998, 36, 705-708.	5.4	83
26	Diameter control of single-walled carbon nanotubes using argon-helium mixture gases. <i>Journal of Chemical Physics</i> , 2001, 115, 6752-6759.	1.2	83
27	Inclusion of carbon nanotubes in a TiO <sub>2</sub> sol-gel matrix. <i>Journal of Non-Crystalline Solids</i> , 2002, 311, 130-137.	1.5	78
28	Study of the symmetry of single-wall nanotubes by electron diffraction. <i>European Physical Journal B</i> , 2000, 13, 661-669.	0.6	73
29	Carbon nanotube synthesis: from large-scale production to atom-by-atom growth. <i>Nanotechnology</i> , 2012, 23, 142001.	1.3	73
30	Raman characterization of singlewalled carbon nanotubes and PMMA-nanotubes composites. <i>Synthetic Metals</i> , 1999, 103, 2510-2512.	2.1	71
31	Structural properties of some conducting polymers and carbon nanotubes investigated by SERS spectroscopy. <i>Synthetic Metals</i> , 1999, 100, 13-27.	2.1	70
32	Atomic layer deposition of stable 2D materials. <i>2D Materials</i> , 2019, 6, 012001.	2.0	65
33	Growing a Carbon Nanotube Atom by Atom: And Yet It Does Turn. <i>Nano Letters</i> , 2009, 9, 2961-2966.	4.5	59
34	Intermolecular Interaction in Carbon Nanotube Ropes. <i>Physica Status Solidi (B): Basic Research</i> , 1999, 215, 435-441.	0.7	54
35	Synthesis of hexagonal boron nitride graphene-like few layers. <i>Nanoscale</i> , 2014, 6, 7838-7841.	2.8	38
36	Carbon single wall nanotubes elaboration and properties. <i>Carbon</i> , 1998, 36, 675-680.	5.4	37

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37	Synthesis Methods and Growth Mechanisms. Lecture Notes in Physics, 2006, , 49-130.	0.3	34
38	Raman characterization of single wall carbon nanotubes prepared by the solar energy route. Carbon, 1998, 36, 1815-1820.	5.4	32
39	Ultrashort Single-Wall Carbon Nanotubes Reveal Field-Emission Coulomb Blockade and Highest Electron-Source Brightness. Physical Review Letters, 2014, 112, 126805.	2.9	31
40	What is the chirality of singlewall nanotubes produced by arcdischarge? An electron diffraction study. Synthetic Metals, 1999, 103, 2533-2536.	2.1	29
41	Carbon SWNTs as wires and structural templates between nanoelectrodes. Synthetic Metals, 1999, 103, 2540-2542.	2.1	26
42	Studies by sers spectroscopy of the structural properties of conducting polymers and carbon nanotubes. Synthetic Metals, 1999, 101, 184-187.	2.1	21
43	Dielectric permittivity, conductivity and breakdown field of hexagonal boron nitride. Materials Research Express, 2022, 9, 065901.	0.8	21
44	Evolution of the Field-Emission Properties of Individual Multiwalled Carbon Nanotubes Submitted to Temperature and Field Treatments. Chemical Vapor Deposition, 2006, 12, 331-344.	1.4	20
45	How to Increase the h-BN Crystallinity of Microfilms and Self-Standing Nanosheets: A Review of the Different Strategies Using the PDCs Route. Crystals, 2016, 6, 55.	1.0	20
46	Pure & crystallized 2D Boron Nitride sheets synthesized via a novel process coupling both PDCs and SPS methods. Scientific Reports, 2016, 6, 20388.	1.6	20
47	Hexagonal boron nitride: a review on selfstanding crystals synthesis towards 2D nanosheets. JPhys Materials, 2021, 4, 044018.	1.8	20
48	Synthesis of sheathed carbon nanotube tips by the sol-gel technique. Applied Surface Science, 2004, 221, 4-9.	3.1	19
49	A Novel Two-Step Ammonia-Free Atomic Layer Deposition Approach for Boron Nitride. ChemNanoMat, 2017, 3, 656-663.	1.5	19
50	Low-Temperature Synthesis of Highly Crystallized Hexagonal Boron Nitride Sheets with Li <sub>3</sub> N as Additive Agent. European Journal of Inorganic Chemistry, 2014, 2014, 5507-5513.	1.0	18
51	Millimeter-Scale Hexagonal Boron Nitride Single Crystals for Nanosheet Generation. ACS Applied Nano Materials, 2020, 3, 1508-1515.	2.4	17
52	Influence of tunneling voltage on the imaging of carbon nanotube rafts by scanning tunneling microscopy. Applied Physics Letters, 1998, 73, 3680-3682.	1.5	15
53	Single wall carbon nanotubes: Two ways of production. Synthetic Metals, 1999, 103, 2488-2489.	2.1	14
54	Infrared reflectance of single-walled carbon nanotubes. Synthetic Metals, 1999, 103, 2506-2507.	2.1	12

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55	Ring patterns in high-current field emission from carbon nanotubes. <i>Physical Review B</i> , 2009, 80, .	1.1	12
56	Synthesis of hexagonal boron nitride 2D layers using polymer derived ceramics route and derivatives. <i>JPhys Materials</i> , 2020, 3, 034002.	1.8	12
57	Fabrication of Au functionalized TiO <sub>2</sub> nanofibers for photocatalytic application. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	0.8	11
58	Transport properties of single-walled carbon nanotubes. <i>Synthetic Metals</i> , 1999, 103, 2513-2514.	2.1	10
59	AlN hollow-nanofilaments by electrospinning. <i>Nanotechnology</i> , 2015, 26, 085603.	1.3	10
60	The influence of precursor addition order on the porosity of sol-gel bioactive glasses. <i>Dental Materials</i> , 2018, 34, 1323-1330.	1.6	10
61	Advanced synthesis of highly crystallized hexagonal boron nitride by coupling polymer-derived ceramics and spark plasma sintering processes— influence of the crystallization promoter and sintering temperature. <i>Nanotechnology</i> , 2019, 30, 035604.	1.3	10
62	Carbon sublimation using a solar furnace. <i>Synthetic Metals</i> , 1997, 86, 2295-2296.	2.1	9
63	Improving Formation Conditions and Properties of hBN Nanosheets Through BaF <sub>2</sub> -assisted Polymer Derived Ceramics (PDCs) Technique. <i>Nanomaterials</i> , 2020, 10, 443.	1.9	9
64	Dispersions and fibers of carbon nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2000, 633, 1211.	0.1	8
65	Enhanced water repellency of surfaces coated with multiscale carbon structures. <i>Applied Surface Science</i> , 2018, 428, 364-369.	3.1	8
66	Co-doping Graphene with B and N Heteroatoms for Application in Energy Conversion and Storage Devices. <i>ChemNanoMat</i> , 2022, 8, .	1.5	8
67	Radiative lifetime of free excitons in hexagonal boron nitride. <i>Physical Review B</i> , 2021, 104, .	1.1	7
68	From the synthesis of hBN crystals to their use as nanosheets in van der Waals heterostructures. <i>2D Materials</i> , 2022, 9, 035008.	2.0	7
69	Rotational excitations of methane molecules in carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2001, 301, 292-294.	1.3	6
70	Room temperature ammonia vapour detection on hBN flakes. <i>JPhys Materials</i> , 2021, 4, 044007.	1.8	6
71	The Use of Solar Energy for the Production of Fullerenes and Porous Silicon. <i>Journal De Physique III</i> , 1997, 7, 463-472.	0.3	5
72	Simultaneous microwave-assisted reduction and B/N co-doping of graphene oxide for selective recognition of VOCs. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3307-3317.	2.7	5

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73	Supramolecular assemblies of phenolic metalloporphyrins: Structures and electrochemical studies. Journal of Porphyrins and Phthalocyanines, 2019, 23, 103-116.	0.4	4
74	Measuring the physical properties of nanostructures and nanowires by field emission. Europhysics News, 2006, 37, 26-28.	0.1	3
75	Field emission measure of the time response of individual semiconducting nanowires to laser excitation. Applied Physics Letters, 2011, 99, .	1.5	3
76	High Pressure in Boron Nitride Nanotubes for Kirigami Nanoribbon Elaboration. Journal of Physical Chemistry C, 2021, 125, 11440-11453.	1.5	3
77	Hydrogen Storage in Pure and Boron-Substituted Nanoporous Carbons—Numerical and Experimental Perspective. Nanomaterials, 2021, 11, 2173.	1.9	3
78	Raman Investigation of Singlewalled Carbon Nanotubes. Molecular Crystals and Liquid Crystals, 1998, 322, 71-78.	0.3	2
79	Proximity-induced superconductivity in carbon nanotubes. Comptes Rendus De L'Academie De Sciences - Serie Iib: Mecanique, Physique, Chimie, Astronomie, 1999, 327, 933-943.	0.1	2
80	Direct growth of carbon nanotubes atom by atom during field emission. Materials Research Society Symposia Proceedings, 2009, 1204, 1.	0.1	2
81	Synthesis of Carbon Nanotubes Using Field Emission. Nanoscience and Nanotechnology Letters, 2011, 3, 11-17.	0.4	2
82	Production of carbon single wall nanotubes versus experimental parameters. , 1998, , .		1
83	Mid-infrared investigations and spatially resolved Raman spectra of singlewalled carbon nanotubes. , 1998, , .		1
84	Purification des nanotubes de carbone monofeuillets. Comptes Rendus De L'Academie De Sciences - Serie Iib: Mecanique, Physique, Chimie, Astronomie, 1999, 327, 925-931.	0.1	1
85	Structure and vibrational properties of single wall carbon nanotubes. Synthetic Metals, 1999, 103, 2537-2539.	2.1	1
86	A simple method to make carbon nanotubes fibers. AIP Conference Proceedings, 2001, , .	0.3	1
87	Raman studies on single-walled carbon nanotubes. , 1997, 3142, 18.		0
88	Raman studies of singlewalled nanotubes. , 1998, , .		0
89	Electrical resistivity of single-wall carbon nanotubes obtained by the arc-discharge technique. , 1998, , .		0
90	Molecular dynamics of single wall nanotubes. , 1998, , .		0

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91	Superconductivity and normal state resistance of carbon nanotubes. AIP Conference Proceedings, 2000, , .	0.3	0
92	Superconductivity in molecular wires. Physics-Usppekhi, 2001, 44, 69-71.	0.8	0
93	Direct Measurement of Binding Energy Via Adsorption of Methane on SWNT. , 2002, , 215-221.		0
94	Carbon nanotubes grown in a field emission electron microscope. , 2012, , .		0
95	Chemical Sensing Properties of BaF <sub>2</sub> -Modified hBN Flakes towards Detection of Volatile Organic Compounds. Chemosensors, 2021, 9, 263.	1.8	0
96	Hydrogen Storage in Pure and Boron-Substituted Nanoporous Carbons-Numerical and Experimental Perspective. Nanomaterials, 2021, 11, .	1.9	0