

# Catherine Journet

## List of Publications by Year in Descending Order

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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.

83  
papers

8,310  
citations

35  
h-index

91  
g-index

99  
ext. papers

8,885  
ext. citations

5.5  
avg, IF

5.23  
L-index

#	Paper	IF	Citations
83	Hydrogen Storage in Pure and Boron-Substituted Nanoporous Carbons: Numerical and Experimental Perspective. <i>Nanomaterials</i> , <b>2021</b> , 11, 2173	5.4	0
82	Radiative lifetime of free excitons in hexagonal boron nitride. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
81	High Pressure in Boron Nitride Nanotubes for Kirigami Nanoribbon Elaboration. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 11440-11453	3.8	1
80	Room temperature ammonia vapour detection on hBN flakes. <i>JPhys Materials</i> , <b>2021</b> , 4, 044007	4.2	1
79	Chemical Sensing Properties of BaF <sub>2</sub> -Modified hBN Flakes towards Detection of Volatile Organic Compounds. <i>Chemosensors</i> , <b>2021</b> , 9, 263	4	
78	Synthesis of hexagonal boron nitride 2D layers using polymer derived ceramics route and derivatives. <i>JPhys Materials</i> , <b>2020</b> , 3, 034002	4.2	5
77	Improving Formation Conditions and Properties of BN Nanosheets Through BaF-assisted Polymer Derived Ceramics (PDCs) Technique. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
76	Millimeter-Scale Hexagonal Boron Nitride Single Crystals for Nanosheet Generation. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 1508-1515	5.6	8
75	Supramolecular assemblies of phenolic metalloporphyrins: Structures and electrochemical studies. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2019</b> , 23, 103-116	1.8	2
74	Atomic layer deposition of stable 2D materials. <i>2D Materials</i> , <b>2019</b> , 6, 012001	5.9	48
73	Fabrication of Au functionalized TiO <sub>2</sub> nanofibers for photocatalytic application. <i>Journal of Nanoparticle Research</i> , <b>2019</b> , 21, 1	2.3	6
72	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> , <b>2019</b> , 30, 035604	3.4	5
71	Enhanced water repellency of surfaces coated with multiscale carbon structures. <i>Applied Surface Science</i> , <b>2018</b> , 428, 364-369	6.7	6
70	The influence of precursor addition order on the porosity of sol-gel bioactive glasses. <i>Dental Materials</i> , <b>2018</b> , 34, 1323-1330	5.7	4
69	A Novel Two-Step Ammonia-Free Atomic Layer Deposition Approach for Boron Nitride. <i>ChemNanoMat</i> , <b>2017</b> , 3, 656-663	3.5	13
68	Pure & crystallized 2D Boron Nitride sheets synthesized via a novel process coupling both PDCs and SPS methods. <i>Scientific Reports</i> , <b>2016</b> , 6, 20388	4.9	17
67	How to Increase the h-BN Crystallinity of Microfilms and Self-Standing Nanosheets: A Review of the Different Strategies Using the PDCs Route. <i>Crystals</i> , <b>2016</b> , 6, 55	2.3	13

66	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> , <b>2015</b> , 220, 1112-1119	8.5	110
65	AlN hollow-nanofilaments by electrospinning. <i>Nanotechnology</i> , <b>2015</b> , 26, 085603	3.4	8
64	Synthesis of hexagonal boron nitride graphene-like few layers. <i>Nanoscale</i> , <b>2014</b> , 6, 7838-41	7.7	32
63	Ultrashort single-wall carbon nanotubes reveal field-emission coulomb blockade and highest electron-source brightness. <i>Physical Review Letters</i> , <b>2014</b> , 112, 126805	7.4	21
62	Low-Temperature Synthesis of Highly Crystallized Hexagonal Boron Nitride Sheets with Li <sub>3</sub> N as Additive Agent. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 5507-5513	2.3	14
61	Carbon nanotube synthesis: from large-scale production to atom-by-atom growth. <i>Nanotechnology</i> , <b>2012</b> , 23, 142001	3.4	64
60	Field emission measure of the time response of individual semiconducting nanowires to laser excitation. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 072115	3.4	3
59	Synthesis of Carbon Nanotubes Using Field Emission. <i>Nanoscience and Nanotechnology Letters</i> , <b>2011</b> , 3, 11-17	0.8	2
58	Ring patterns in high-current field emission from carbon nanotubes. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	11
57	Direct growth of carbon nanotubes atom by atom during field emission. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1204, 1		2
56	Growing a carbon nanotube atom by atom: "and yet it does turn". <i>Nano Letters</i> , <b>2009</b> , 9, 2961-6	11.5	53
55	Evolution of the Field-Emission Properties of Individual Multiwalled Carbon Nanotubes Submitted to Temperature and Field Treatments. <i>Chemical Vapor Deposition</i> , <b>2006</b> , 12, 331-344		19
54	Synthesis Methods and Growth Mechanisms. <i>Lecture Notes in Physics</i> , <b>2006</b> , 49-130	0.8	27
53	Slippage of water past superhydrophobic carbon nanotube forests in microchannels. <i>Physical Review Letters</i> , <b>2006</b> , 97, 156104	7.4	360
52	Measuring the physical properties of nanostructures and nanowires by field emission. <i>Europhysics News</i> , <b>2006</b> , 37, 26-28	0.2	3
51	Contact angle measurements on superhydrophobic carbon nanotube forests: Effect of fluid pressure. <i>Europhysics Letters</i> , <b>2005</b> , 71, 104-109	1.6	150
50	Synthesis of sheathed carbon nanotube tips by the sol-gel technique. <i>Applied Surface Science</i> , <b>2004</b> , 221, 4-9	6.7	17
49	Direct Measurement of Binding Energy Via Adsorption of Methane on SWNT <b>2002</b> , 215-221		

48	Coalescence of single-walled carbon nanotubes and formation of multi-walled carbon nanotubes under high-temperature treatments. <i>Carbon</i> , <b>2002</b> , 40, 1765-1773	10.4	89
47	Tuning of nanotube mechanical resonances by electric field pulling. <i>Physical Review Letters</i> , <b>2002</b> , 89, 276103	7.4	128
46	Modelization of resistive heating of carbon nanotubes during field emission. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	110
45	Hot nanotubes: stable heating of individual multiwall carbon nanotubes to 2000 k induced by the field-emission current. <i>Physical Review Letters</i> , <b>2002</b> , 88, 105502	7.4	316
44	Inclusion of carbon nanotubes in a TiO <sub>2</sub> sol-gel matrix. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 311, 130-137	3.7	71
43	Rotational excitations of methane molecules in carbon nanotubes. <i>Physica B: Condensed Matter</i> , <b>2001</b> , 301, 292-294	2.8	6
42	Diameter control of single-walled carbon nanotubes using argon-helium mixture gases. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 6752-6759	3.9	72
41	Root-growth mechanism for single-wall carbon nanotubes. <i>Physical Review Letters</i> , <b>2001</b> , 87, 275504	7.4	322
40	Dispersions and fibers of carbon nanotubes. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 633, 1211		8
39	Optical limiting properties of singlewall carbon nanotubes. <i>Optics Communications</i> , <b>2000</b> , 174, 271-275	2	78
38	Study of the symmetry of single-wall nanotubes by electron diffraction. <i>European Physical Journal B</i> , <b>2000</b> , 13, 661-669	1.2	65
37	Diameter distribution of single wall carbon nanotubes in nanobundles. <i>European Physical Journal B</i> , <b>2000</b> , 18, 201-205	1.2	97
36	Determination of the binding energy of methane on single-walled carbon nanotube bundles. <i>Physical Review B</i> , <b>2000</b> , 61, 13150-13154	3.3	90
35	Characterization of singlewalled carbon nanotubes-PMMA composites. <i>Synthetic Metals</i> , <b>2000</b> , 108, 139-149	3.69	165
34	Macroscopic fibers and ribbons of oriented carbon nanotubes. <i>Science</i> , <b>2000</b> , 290, 1331-4	33.3	1531
33	Acoustoelectric effects in carbon nanotubes. <i>Physical Review Letters</i> , <b>2000</b> , 85, 2829-32	7.4	94
32	Single-electron transistor made of multiwalled carbon nanotube using scanning probe manipulation. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 728-730	3.4	81
31	Purification des nanotubes de carbone monofeuillets. <i>Comptes Rendus De L'Academie De Sciences - Serie IIb: Mecanique, Physique, Chimie, Astronomie</i> , <b>1999</b> , 327, 925-931		1

30	Proximity-induced superconductivity in carbon nanotubes. <i>Comptes Rendus De L'Academie De Sciences - Serie IIb: Mecanique, Physique, Chimie, Astronomie</i> , <b>1999</b> , 327, 933-943		1
29	Tuning and monitoring the electronic structure of carbon nanotubes. <i>Chemical Physics Letters</i> , <b>1999</b> , 305, 370-374	2.5	147
28	Single-wall carbon nanotubes for optical limiting. <i>Chemical Physics Letters</i> , <b>1999</b> , 307, 317-319	2.5	110
27	Intermolecular Interaction in Carbon Nanotube Ropes. <i>Physica Status Solidi (B): Basic Research</i> , <b>1999</b> , 215, 435-441	1.3	50
26	Supercurrents through single-walled carbon nanotubes. <i>Science</i> , <b>1999</b> , 284, 1508-11	33.3	365
25	Structural properties of some conducting polymers and carbon nanotubes investigated by SERS spectroscopy. <i>Synthetic Metals</i> , <b>1999</b> , 100, 13-27	3.6	67
24	Evolution and evaluation of the polymer/nanotube composite. <i>Synthetic Metals</i> , <b>1999</b> , 103, 2559-2562	3.6	80
23	Studies by sers spectroscopy of the structural properties of conducting polymers and carbon nanotubes. <i>Synthetic Metals</i> , <b>1999</b> , 101, 184-187	3.6	20
22	What is the chirality of singlewall nanotubes produced by arcdischarge? An electron diffraction study. <i>Synthetic Metals</i> , <b>1999</b> , 103, 2533-2536	3.6	28
21	Structure and vibrational properties of single wall carbon nanotubes. <i>Synthetic Metals</i> , <b>1999</b> , 103, 2537-2539	3.6	1
20	Single wall carbon nanotubes: Two ways of production. <i>Synthetic Metals</i> , <b>1999</b> , 103, 2488-2489	3.6	12
19	Infrared reflectance of single-walled carbon nanotubes. <i>Synthetic Metals</i> , <b>1999</b> , 103, 2506-2507	3.6	8
18	Raman characterization of singlewalled carbon nanotubes and PMMA-nanotubes composites. <i>Synthetic Metals</i> , <b>1999</b> , 103, 2510-2512	3.6	63
17	Transport properties of single-walled carbon nanotubes. <i>Synthetic Metals</i> , <b>1999</b> , 103, 2513-2514	3.6	9
16	Purification procedure of carbon nanotubes. <i>Synthetic Metals</i> , <b>1999</b> , 103, 2492-2493	3.6	85
15	Carbon SWNTs as wires and structural templates between nanoelectrodes. <i>Synthetic Metals</i> , <b>1999</b> , 103, 2540-2542	3.6	22
14	Raman studies on single walled carbon nanotubes produced by the electric arc technique. <i>Carbon</i> , <b>1998</b> , 36, 705-708	10.4	75
13	Carbon single wall nanotubes elaboration and properties. <i>Carbon</i> , <b>1998</b> , 36, 675-680	10.4	36

12	Raman characterization of single wall carbon nanotubes prepared by the solar energy route. <i>Carbon</i> , <b>1998</b> , 36, 1815-1820	10.4	26
11	Infrared active phonons in single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , <b>1998</b> , 294, 237-240	2.5	84
10	Production of carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , <b>1998</b> , 67, 1-9	2.6	261
9	Purification of catalytically produced multi-wall nanotubes. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1998</b> , 94, 3753-3758		85
8	Influence of tunneling voltage on the imaging of carbon nanotube rafts by scanning tunneling microscopy. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3680-3682	3.4	10
7	Raman Investigation of Singlewalled Carbon Nanotubes. <i>Molecular Crystals and Liquid Crystals</i> , <b>1998</b> , 322, 71-78		2
6	Production of carbon single wall nanotubes versus experimental parameters <b>1998</b> ,		1
5	Carbon sublimation using a solar furnace. <i>Synthetic Metals</i> , <b>1997</b> , 86, 2295-2296	3.6	7
4	Large-scale production of single-walled carbon nanotubes by the electric-arc technique. <i>Nature</i> , <b>1997</b> , 388, 756-758	50.4	2282
3	The Use of Solar Energy for the Production of Fullerenes and Porous Silicon. <i>Journal De Physique III</i> , <b>1997</b> , 7, 463-472		4
2	Simultaneous microwave-assisted reduction and B/N co-doping of graphene oxide for selective recognition of VOCs. <i>Journal of Materials Chemistry C</i> ,	7.1	1
1	Co-doping graphene with B and N heteroatoms for application in energy conversion and storage devices. <i>ChemNanoMat</i> ,	3.5	1