

Pascale Launois

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97
papers

2,889
citations

30
h-index

51
g-index

99
ext. papers

3,055
ext. citations

5.4
avg, IF

4.61
L-index

#	Paper	IF	Citations
97	Hot-drawing of single and multiwall carbon nanotube fibers for high toughness and alignment. <i>Nano Letters</i> , 2005 , 5, 2212-5	11.5	283
96	Improved structure and properties of single-wall carbon nanotube spun fibers. <i>Applied Physics Letters</i> , 2002 , 81, 1210-1212	3.4	188
95	Films and fibers of oriented single wall nanotubes. <i>Carbon</i> , 2002 , 40, 1741-1749	10.4	187
94	Evidence of sequential lift in growth of aligned multiwalled carbon nanotube multilayers. <i>Nano Letters</i> , 2005 , 5, 2394-8	11.5	145
93	Shape-controlled platinum nanocubes and their assembly into two-dimensional and three-dimensional superlattices. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 14583-92	3.4	120
92	Water in Carbon Nanotubes: The Peculiar Hydrogen Bond Network Revealed by Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10437-43	16.4	89
91	A liquid-crystalline hexagonal columnar phase in highly-dilute suspensions of imogolite nanotubes. <i>Nature Communications</i> , 2016 , 7, 10271	17.4	86
90	Growth of multiwalled carbon nanotubes during the initial stages of aerosol-assisted CCVD. <i>Carbon</i> , 2005 , 43, 2968-2976	10.4	82
89	Correlation of properties with preferred orientation in coagulated and stretch-aligned single-wall carbon nanotubes. <i>Journal of Applied Physics</i> , 2004 , 96, 7509-7513	2.5	76
88	First X-ray diffraction analysis of pressure polymerized C 60 single crystals. <i>Europhysics Letters</i> , 1997 , 40, 55-60	1.6	75
87	Mechanistic investigations of single-walled carbon nanotube synthesis by ferrocene vapor decomposition in carbon monoxide. <i>Carbon</i> , 2010 , 48, 380-388	10.4	70
86	Critical role of surface chemical modifications induced by length shortening on multi-walled carbon nanotubes-induced toxicity. <i>Particle and Fibre Toxicology</i> , 2012 , 9, 46	8.4	66
85	Vanadium Oxide/PANI Nanocomposite-Based Macroscopic Fibers: 1D Alcohol Sensors Bearing Enhanced Toughness. <i>Chemistry of Materials</i> , 2008 , 20, 5541-5549	9.6	58
84	Carbon nanotubes in macrophages: imaging and chemical analysis by X-ray fluorescence microscopy. <i>Nano Letters</i> , 2008 , 8, 2659-63	11.5	58
83	Decagonal Phases: Non-Quasi-Crystalline Microcrystalline State in an Al-Cu-Co-Si Alloy. <i>Europhysics Letters</i> , 1990 , 13, 629-634	1.6	55
82	Evidence for Distinct Polymer Chain Orientations in KC60 and RbC60. <i>Physical Review Letters</i> , 1998 , 81, 4420-4423	7.4	54
81	Structural characterization of nanotube fibers by x-ray scattering. <i>Journal of Nanoscience and Nanotechnology</i> , 2001 , 1, 125-8	1.3	52

80	Single-step formation of micron long (OH) ₃ Al ₂ O ₃ Ge(OH) imogolite-like nanotubes. <i>Chemical Communications</i> , 2013 , 49, 11284-6	5.8	50
79	Evidence of strong nanotube alignment and for iron preferential growth axis in multiwalled carbon nanotube carpets. <i>Applied Physics Letters</i> , 2004 , 85, 473-475	3.4	49
78	Hybrid, Tunable-Diameter, Metal Oxide Nanotubes for Trapping of Organic Molecules. <i>Chemistry of Materials</i> , 2015 , 27, 1488-1494	9.6	46
77	Geometry, phase stability, and electronic properties of isolated selenium chains incorporated in a nanoporous matrix. <i>Journal of the American Chemical Society</i> , 2005 , 127, 16111-9	16.4	44
76	Carbon nanotubes synthesised in channels of AlPO ₄ -5 single crystals: first X-ray scattering investigations. <i>Solid State Communications</i> , 2000 , 116, 99-103	1.6	41
75	Diffuse scattering and orientational correlations in solid C ₆₀ . <i>Physical Review B</i> , 1995 , 52, 5414-5425	3.3	36
74	Orientation of C ₇₀ molecules in peapods as a function of the nanotube diameter. <i>Physical Review B</i> , 2007 , 75,	3.3	35
73	Hexagonalization of Aluminogermanate Imogolite Nanotubes Organized into Closed-Packed Bundles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9299-9306	3.8	34
72	Tests of current models of intermolecular potentials against x-ray diffuse scattering in C ₆₀ . <i>Physical Review B</i> , 1997 , 55, 2651-2665	3.3	34
71	X-ray scattering determination of the structure of water during carbon nanotube filling. <i>Nano Letters</i> , 2013 , 13, 1751-6	11.5	32
70	Transformation of C ₇₀ peapods into double walled carbon nanotubes. <i>Carbon</i> , 2010 , 48, 89-98	10.4	32
69	Decagonal quasicrystalline or microcrystalline structures: The specific case of Al-Cu-Co(-Si). <i>Physical Review B</i> , 1994 , 49, 15573-15587	3.3	31
68	Synchrotron X-ray diffraction experiments with a prototype hybrid pixel detector. <i>Journal of Applied Crystallography</i> , 2012 , 45, 38-47	3.8	30
67	Nature of the Catalyst Particles in CCVD Synthesis of Multiwalled Carbon Nanotubes Revealed by the Cooling Step Study. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7371-7378	3.8	30
66	Discriminated structural behaviour of C ₆₀ and C ₇₀ peapods under extreme conditions. <i>Europhysics Letters</i> , 2007 , 79, 56003	1.6	27
65	Graphene oxide-carbon nanotube hybrid assemblies: cooperatively strengthened OH	9.4	26
64	Intracellular fate of carbon nanotubes inside murine macrophages: pH-dependent detachment of iron catalyst nanoparticles. <i>Particle and Fibre Toxicology</i> , 2013 , 10, 24	8.4	26
63	Neutron observation of phase and amplitude modes in an n=4 incommensurate system. <i>Physical Review B</i> , 1987 , 36, 8951-8954	3.3	23

62	Structural resolution of inorganic nanotubes with complex stoichiometry. <i>Nature Communications</i> , 2018 , 9, 2033	17.4	22
61	INTERACTIONS AND MOLECULAR ORIENTATIONS IN SOLID C60. <i>International Journal of Modern Physics B</i> , 1999 , 13, 253-281	1.1	21
60	Effect of temperature on carbon nanotube diameter and bundle arrangement: Microscopic and macroscopic analysis. <i>Journal of Applied Physics</i> , 2004 , 95, 2029-2037	2.5	20
59	Elastic neutron scattering study of high order satellites in the incommensurate phase of bis(4-chlorophenyl)sulfone. <i>Solid State Communications</i> , 1993 , 87, 47-51	1.6	19
58	MOMAC: a SAXS/WAXS laboratory instrument dedicated to nanomaterials. <i>Journal of Applied Crystallography</i> , 2016 , 49, 1624-1631	3.8	19
57	1D-confinement of polyiodides inside single-wall carbon nanotubes. <i>Carbon</i> , 2013 , 52, 100-108	10.4	18
56	Effect of Ionic Strength on the Bundling of Metal Oxide Imogolite Nanotubes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21740-21749	3.8	18
55	Substantial improvement of nanotube processability by freeze-drying. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2633-9	1.3	18
54	Analysis of the x-ray diffuse scattering in C60 from microscopic models. <i>Physical Review B</i> , 1996 , 53, R10532-R10535	3.2	15
53	Growth of aligned multi-walled carbon nanotubes: First in situ and time-resolved X-ray diffraction analysis. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2449-2453	1.3	15
52	Lattice dynamics of a rotor-stator molecular crystal: Fullerene-cubane C60?C8H8. <i>Physical Review B</i> , 2010 , 82,	3.3	15
51	A Pressure-Induced Incommensurate Phase in Ammonium Hydrogen Oxalate Hemihydrate. <i>Europhysics Letters</i> , 1988 , 6, 37-42	1.6	15
50	Colloidal Stability of Imogolite Nanotube Dispersions: A Phase Diagram Study. <i>Langmuir</i> , 2019 , 35, 12451-12459	1.4	14
49	Inorganic Nanotube Mesophases Enable Strong Self-Healing Fibers. <i>ACS Nano</i> , 2020 , 14, 5570-5580	16.7	13
48	Structural and physical properties of pressure polymerized C60. <i>Carbon</i> , 1998 , 36, 657-660	10.4	13
47	Synthesis and characterization of Se nano-structures inside porous zeolite crystals. <i>Applied Surface Science</i> , 2004 , 226, 36-40	6.7	13
46	In situ time resolved wide angle X-ray diffraction study of nanotube carpet growth: Nature of catalyst particles and progressive nanotube alignment. <i>Carbon</i> , 2015 , 87, 246-256	10.4	12
45	Insights into the mechanism of the gas-phase purification of HiPco SWNTs through a comprehensive multi-technique study. <i>New Journal of Chemistry</i> , 2009 , 33, 1211	3.6	12

44	NEXAFS and X-ray scattering study of structure changes after post-annealing treatments of aligned MWNTs. <i>Diamond and Related Materials</i> , 2005 , 14, 881-886	3.5	12
43	Metal-insulator and structural phase transition observed by ESR spectroscopy and x-ray diffraction in KC60. <i>Physical Review Letters</i> , 2001 , 86, 4346-9	7.4	12
42	Solid wetting-layers in inorganic nano-reactors: the water in imogolite nanotube case. <i>Nanoscale Advances</i> , 2020 , 2, 1869-1877	5.1	11
41	A Monte Carlo study of C70 molecular motion in C70@SWCNT peapods. <i>Carbon</i> , 2011 , 49, 2007-2021	10.4	11
40	X-ray microdiffraction study of single-walled carbon nanotube alignment across a fibre. <i>Europhysics Letters</i> , 2007 , 79, 46002	1.6	11
39	Disorder versus structure analysis in intergrowth urea inclusion compounds. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 1653-1668	1.8	10
38	Polymer chain orientations in KC60 and RbC60: structural analysis and relation with electronic properties. <i>Synthetic Metals</i> , 1999 , 103, 2354-2357	3.6	10
37	Role of initial precursors on the liquid-crystalline phase behavior of synthetic aluminogermanate imogolite nanotubes. <i>Journal of Colloid and Interface Science</i> , 2020 , 580, 275-285	9.3	10
36	Progressive melting in confined one-dimensional C60 chains. <i>Physical Review B</i> , 2012 , 86,	3.3	8
35	The microcrystalline state of slowly solidified decaprismatic Al-Co-Cu(-Si) needles. <i>Philosophical Magazine Letters</i> , 1995 , 71, 147-152	1	8
34	Conductive graphene coatings synthesized from graphenide solutions. <i>Carbon</i> , 2017 , 121, 217-225	10.4	7
33	Nanomaterials From Imogolite: Structure, Properties, and Functional Materials 2019 , 257-284		7
32	Anomalous thermal expansion of Iron nanocrystals inside multiwalled carbon nanotubes. <i>Physical Review B</i> , 2013 , 88,	3.3	7
31	A general orientation distribution function for clay-rich media. <i>Nature Communications</i> , 2019 , 10, 5456	17.4	7
30	Fullerene-cubane: X-ray Scattering Experiments and Monte Carlo Simulations. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2008 , 16, 293-300	1.8	6
29	Self-assembled lamellar structures with functionalized single wall carbon nanotubes. <i>Chemical Communications</i> , 2007 , 4248-50	5.8	6
28	Alignment of Carbon Nanotubes in Macroscopic Fibers. <i>AIP Conference Proceedings</i> , 2002 ,	0	6
27	Unravelling the hydration mechanism in a multi-layered graphene oxide paper by in-situ X-ray scattering. <i>Carbon</i> , 2018 , 137, 379-383	10.4	6

26	Vertically aligned carbon nanotube-based composite: Elaboration and monitoring of the nanotubes alignment. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	5
25	Intercalated water in multi-layered graphene oxide paper: an X-ray scattering study. <i>Journal of Applied Crystallography</i> , 2017 , 50, 876-884	3.8	5
24	Structure in nascent carbon nanotubes revealed by spatially resolved Raman spectroscopy. <i>Thin Solid Films</i> , 2014 , 568, 102-110	2.2	5
23	Pretransitional dynamics of the structural phase transition in anthracene-TCNB: A comparison of Raman-scattering and inelastic-neutron-scattering experiments. <i>Physical Review B</i> , 1996 , 54, 15002-15015	3.3	5
22	Phasons and amplitudons in an n = 4 incommensurate structure: Phase II of biphenyl under pressure. <i>Ferroelectrics</i> , 1988 , 78, 137-144	0.6	5
21	From a one-dimensional crystal to a one-dimensional liquid: A comprehensive dynamical study of C60 peapods. <i>Physical Review B</i> , 2013 , 87,	3.3	4
20	Molecular Orientational Ordering in Solid C60. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1996 , 4, 1287-1298		4
19	X-ray diffraction study of the evolution of Fe-filled multiwalled carbon nanotubes under pressure. <i>European Physical Journal B</i> , 2009 , 72, 145-151	1.2	3
18	Pretransitional cooperative dynamics in the incommensurate freezing of DRAPD glass: a neutron scattering study. <i>Europhysics Letters</i> , 1996 , 33, 129-134	1.6	3
17	Single crystal x-ray diffuse scattering studies of the intermolecular interactions in solid C60. <i>Synthetic Metals</i> , 1997 , 86, 2327-2328	3.6	3
16	Original magnetic alignment of a nematic phase containing single-walled nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2004 , 4, 86-90	1.3	3
15	Decagonal Phases: Non-Quasi-Crystalline Microcrystalline State in an Al-Cu-Co-Si Alloy. <i>Europhysics Letters</i> , 1991 , 14, 283-283	1.6	3
14	Influence of the Al/Ge Ratio on the Structure and Self-Organization of Anisometric Imogolite Nanotubes. <i>Crystals</i> , 2020 , 10, 1094	2.3	3
13	Mechanisms of Structural Reordering During Thermal Transformation of Aluminogermanate Imogolite Nanotubes. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12414-12423	3.8	3
12	In situ X-ray diffraction observation of two-step fullerene coalescence in carbon peapods. <i>Europhysics Letters</i> , 2013 , 103, 66002	1.6	2
11	Characterization of Single-walled Carbon Nanotube Fibers and Correlation with Stretch Alignment. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 858, 237		2
10	Comment on X-Ray Study of Glassy Behaviour in C60 Single Crystals and Structural Relaxation in Glassy Phase of C60. <i>Journal of the Physical Society of Japan</i> , 1995 , 64, 1862-1862	1.5	2
9	Role of cations on the dissolution mechanism of kaolinite in high alkaline media. <i>Applied Clay Science</i> , 2021 , 205, 106037	5.2	2

8	X-Ray Diffraction for Structural Studies of Carbon Nanotubes and their Insertion Compounds 2013 , 81-127	1
7	Monte Carlo Studies of C60- and C70-Peapods. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2012 , 20, 371-377	1.8 1
6	Quasicrystals: a new type of organization in condensed matter. <i>Endeavour</i> , 1996 , 20, 16-21	0.5 1
5	Inelastic neutron scattering of lithium tantalate studied in the ferroelectric and paraelectric phases. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 2707-2718	1.8 1
4	Doping Liquid Crystals of Colloidal Inorganic Nanotubes by Additive-Free Metal Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5052-5058	6.4 1
3	Translational Dynamics of One-Dimensional Fullerene Chains Encapsulated Inside Single-Walled Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2012 , 20, 395-400	1.8
2	De la simple hlice aux nanostructures tubulaires 2015 , 34-38	0.1
1	Continuous Binder-Free Fibers of Pure Imogolite Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17940-17947	9.5