Pascale Launois

List of Publications by Year
in descending order

98 papers	3,246 citations	136740 32 h-index	155451 55 g-index
99 all docs	99 docs citations	99 times ranked	3870 citing authors

#	Article	IF	Citations
1	Hot-Drawing of Single and Multiwall Carbon Nanotube Fibers for High Toughness and Alignment. Nano Letters, 2005, 5, 2212-2215.	4.5	306
2	Films and fibers of oriented single wall nanotubes. Carbon, 2002, 40, 1741-1749.	5.4	210
3	Improved structure and properties of single-wall carbon nanotube spun fibers. Applied Physics Letters, 2002, 81, 1210-1212.	1.5	208
4	Evidence of Sequential Lift in Growth of Aligned Multiwalled Carbon Nanotube Multilayers. Nano Letters, 2005, 5, 2394-2398.	4.5	155
5	Shape-Controlled Platinum Nanocubes and Their Assembly into Two-Dimensional and Three-Dimensional Superlattices. Journal of Physical Chemistry B, 2008, 112, 14583-14592.	1.2	126
6	Water in Carbon Nanotubes: The Peculiar Hydrogen Bond Network Revealed by Infrared Spectroscopy. Journal of the American Chemical Society, 2016, 138, 10437-10443.	6.6	126
7	A liquid-crystalline hexagonal columnar phase in highly-dilute suspensions of imogolite nanotubes. Nature Communications, 2016, 7, 10271.	5.8	105
8	Growth of multiwalled carbon nanotubes during the initial stages of aerosol-assisted CCVD. Carbon, 2005, 43, 2968-2976.	5.4	90
9	Correlation of properties with preferred orientation in coagulated and stretch-aligned single-wall carbon nanotubes. Journal of Applied Physics, 2004, 96, 7509-7513.	1.1	84
10	First X-ray diffraction analysis of pressure polymerized C 60 single crystals. Europhysics Letters, 1997, 40, 55-60.	0.7	79
11	Mechanistic investigations of single-walled carbon nanotube synthesis by ferrocene vapor decomposition in carbon monoxide. Carbon, 2010, 48, 380-388.	5.4	78
12	Critical role of surface chemical modifications induced by length shortening on multi-walled carbon nanotubes-induced toxicity. Particle and Fibre Toxicology, 2012, 9, 46.	2.8	73
13	Carbon Nanotubes in Macrophages: Imaging and Chemical Analysis by X-ray Fluorescence Microscopy. Nano Letters, 2008, 8, 2659-2663.	4.5	61
14	Vanadium Oxideâ˜PANI Nanocomposite-Based Macroscopic Fibers: 1D Alcohol Sensors Bearing Enhanced Toughness. Chemistry of Materials, 2008, 20, 5541-5549.	3.2	60
15	Evidence for Distinct Polymer Chain Orientations inKC60andRbC60. Physical Review Letters, 1998, 81, 4420-4423.	2.9	59
16	Decagonal Phases: Non-Quasi-Crystalline Microcrystalline State in an Al-Cu-Co-Si Alloy. Europhysics Letters, 1990, 13, 629-634.	0.7	58
17	Single-step formation of micron long (OH)3Al2O3Ge(OH) imogolite-like nanotubes. Chemical Communications, 2013, 49, 11284.	2.2	57
18	Structural Characterization of Nanotube Fibers by X-ray Scattering. Journal of Nanoscience and Nanotechnology, 2001, 1, 125-128.	0.9	56

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19	Hybrid, Tunable-Diameter, Metal Oxide Nanotubes for Trapping of Organic Molecules. Chemistry of Materials, 2015, 27, 1488-1494.	3.2	56
20	Evidence of strong nanotube alignment and for iron preferential growth axis in multiwalled carbon nanotube carpets. Applied Physics Letters, 2004, 85, 473-475.	1.5	49
21	Geometry, Phase Stability, and Electronic Properties of Isolated Selenium Chains Incorporated in a Nanoporous Matrix. Journal of the American Chemical Society, 2005, 127, 16111-16119.	6.6	48
22	Carbon nanotubes synthesised in channels of AlPO4-5 single crystals: first X-ray scattering investigations. Solid State Communications, 2000, 116, 99-103.	0.9	46
23	Graphene oxideâ€“carbon nanotube hybrid assemblies: cooperatively strengthened OHâ‹¯Oî€€ hydrogen bonds and the removal of chemisorbed water. Chemical Science, 2017, 8, 4987-4995.	3.7	39
24	Diffuse scattering and orientational correlations in solidC60. Physical Review B, 1995, 52, 5414-5425.	1.1	37
25	Orientation ofC70molecules in peapods as a function of the nanotube diameter. Physical Review B, 2007, 75, .	1.1	37
26	Tests of current models of intermolecular potentials against x-ray diffuse scattering inC60. Physical Review B, 1997, 55, 2651-2665.	1.1	35
27	X-ray Scattering Determination of the Structure of Water during Carbon Nanotube Filling. Nano Letters, 2013, 13, 1751-1756.	4.5	35
28	Hexagonalization of Aluminogermanate Imogolite Nanotubes Organized into Closed-Packed Bundles. Journal of Physical Chemistry C, 2014, 118, 9299-9306.	1.5	35
29	Synchrotron X-ray diffraction experiments with a prototype hybrid pixel detector. Journal of Applied Crystallography, 2012, 45, 38-47.	1.9	34
30	Transformation of C70 peapods into double walled carbon nanotubes. Carbon, 2010, 48, 89-98.	5.4	33
31	Structural resolution of inorganic nanotubes with complex stoichiometry. Nature Communications, 2018, 9, 2033.	5.8	33
32	Decagonal quasicrystalline or microcrystalline structures: The specific case of Al-Cu-Co(-Si). Physical Review B, 1994, 49, 15573-15587.	1.1	32
33	Nature of the Catalyst Particles in CCVD Synthesis of Multiwalled Carbon Nanotubes Revealed by the Cooling Step Study. Journal of Physical Chemistry C, 2008, 112, 7371-7378.	1.5	32
34	Intracellular fate of carbon nanotubes inside murine macrophages: pH-dependent detachment of iron catalyst nanoparticles. Particle and Fibre Toxicology, 2013, 10, 24.	2.8	29
35	Discriminated structural behaviour of C ₆₀ and C ₇₀ peapods under extreme conditions. Europhysics Letters, 2007, 79, 56003.	0.7	28
36	MOMAC: a SAXS/WAXS laboratory instrument dedicated to nanomaterials. Journal of Applied Crystallography, 2016, 49, 1624-1631.	1.9	26

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37	Neutron observation of phase and amplitude modes in ann=4incommensurate system. Physical Review B, 1987, 36, 8951-8954.	1.1	24
38	INTERACTIONS AND MOLECULAR ORIENTATIONS IN SOLID C60. International Journal of Modern Physics B, 1999, 13, 253-281.	1.0	24
39	Effect of temperature on carbon nanotube diameter and bundle arrangement: Microscopic and macroscopic analysis. Journal of Applied Physics, 2004, 95, 2029-2037.	1.1	23
40	Effect of Ionic Strength on the Bundling of Metal Oxide Imogolite Nanotubes. Journal of Physical Chemistry C, 2017, 121, 21740-21749.	1.5	21
41	Elastic neutron scattering study of high order satellites in the incommensurate phase of bis(4-chlorophenyl)sulfone. Solid State Communications, 1993, 87, 47-51.	0.9	20
42	Colloidal Stability of Imogolite Nanotube Dispersions: A Phase Diagram Study. Langmuir, 2019, 35, 12451-12459.	1.6	20
43	Substantial Improvement of Nanotube Processability by Freeze-Drying. Journal of Nanoscience and Nanotechnology, 2007, 7, 2633-2639.	0.9	19
44	1D-confinement of polyiodides inside single-wall carbon nanotubes. Carbon, 2013, 52, 100-108.	5.4	19
45	Role of initial precursors on the liquid-crystalline phase behavior of synthetic aluminogermanate imogolite nanotubes. Journal of Colloid and Interface Science, 2020, 580, 275-285.	5.0	18
46	Solid wetting-layers in inorganic nano-reactors: the water in imogolite nanotube case. Nanoscale Advances, 2020, 2, 1869-1877.	2.2	17
47	Inorganic Nanotube Mesophases Enable Strong Self-Healing Fibers. ACS Nano, 2020, 14, 5570-5580.	7.3	17
48	Analysis of the x-ray diffuse scattering inC60from microscopic models. Physical Review B, 1996, 53, R10532-R10535.	1.1	16
49	Lattice dynamics of a rotor-stator molecular crystal: Fullerene-cubane<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 Physical Review B, 2010, 82, .	1.1	16
50	In situ time resolved wide angle X-ray diffraction study of nanotube carpet growth: Nature of catalyst particles and progressive nanotube alignment. Carbon, 2015, 87, 246-256.	5.4	16
51	A general orientation distribution function for clay-rich media. Nature Communications, 2019, 10, 5456.	5.8	16
52	A Pressure-Induced Incommensurate Phase in Ammonium Hydrogen Oxalate Hemihydrate. Europhysics Letters, 1988, 6, 37-42.	0.7	15
53	Synthesis and characterization of Se nano-structures inside porous zeolite crystals. Applied Surface Science, 2004, 226, 36-40.	3.1	15
54	Growth of aligned multiâ€walled carbon nanotubes: First in situ and timeâ€resolved Xâ€ray diffraction analysis. Physica Status Solidi (B): Basic Research, 2011, 248, 2449-2453.	0.7	15

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55	Structural and physical properties of pressure polymerized C60. Carbon, 1998, 36, 657-660.	5.4	13
56	Metal-Insulator and Structural Phase Transition Observed by ESR Spectroscopy and X-Ray Diffraction inKC60. Physical Review Letters, 2001, 86, 4346-4349.	2.9	13
57	NEXAFS and X-ray scattering study of structure changes after post-annealing treatments of aligned MWNTs. Diamond and Related Materials, 2005, 14, 881-886.	1.8	12
58	X-ray microdiffraction study of single-walled carbon nanotube alignment across a fibre. Europhysics Letters, 2007, 79, 46002.	0.7	12
59	Insights into the mechanism of the gas-phase purification of HiPco SWNTs through a comprehensive multi-technique study. New Journal of Chemistry, 2009, 33, 1211.	1.4	12
60	Disorder versus structure analysis in intergrowth urea inclusion compounds. Journal of Physics Condensed Matter, 2001, 13, 1653-1668.	0.7	11
61	A Monte Carlo study of C70 molecular motion in C70@SWCNT peapods. Carbon, 2011, 49, 2007-2021.	5.4	11
62	Conductive graphene coatings synthesized from graphenide solutions. Carbon, 2017, 121, 217-225.	5.4	11
63	Polymer chain orientations in KC60 and RbC60: structural analysis and relation with electronic properties. Synthetic Metals, 1999, 103, 2354-2357.	2.1	10
64	Unravelling the hydration mechanism in a multi-layered graphene oxide paper by in-situ X-ray scattering. Carbon, 2018, 137, 379-383.	5.4	10
65	The microcrystalline state of slowly solidified decaprismatic Al-Co-Cu(-Si) needles. Philosophical Magazine Letters, 1995, 71, 147-152.	0.5	8
66	Progressive melting in confined one-dimensional C<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>60</mml:mn></mml:msub></mml:math>chains. Physical Review B, 2012, 86, .	1.1	8
67	Nanomaterials From Imogolite: Structure, Properties, and Functional Materials. , 2019, , 257-284.		8
68	Anomalous thermal expansion of γ-iron nanocrystals inside multiwalled carbon nanotubes. Physical Review B, 2013, 88, .	1.1	7
69	Structure in nascent carbon nanotubes revealed by spatially resolved Raman spectroscopy. Thin Solid Films, 2014, 568, 102-110.	0.8	7
70	Pretransitional dynamics of the structural phase transition in anthracene-TCNB: A comparison of Raman-scattering and inelastic-neutron-scattering experiments. Physical Review B, 1996, 54, 15002-15015.	1.1	6
71	Alignment of Carbon Nanotubes in Macroscopic Fibers. AIP Conference Proceedings, 2002, , .	0.3	6
72	Self-assembled lamellar structures with functionalized single wall carbon nanotubes. Chemical Communications, 2007, , 4248.	2.2	6

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73	Fullereneâ€cubane: Xâ€ray Scattering Experiments and Monte Carlo Simulations. Fullerenes Nanotubes and Carbon Nanostructures, 2008, 16, 293-300.	1.0	6
74	Vertically aligned carbon nanotubeâ€based composite: Elaboration and monitoring of the nanotubes alignment. Journal of Applied Polymer Science, 2014, 131, .	1.3	6
75	Intercalated water in multi-layered graphene oxide paper: an X-ray scattering study. Journal of Applied Crystallography, 2017, 50, 876-884.	1.9	6
76	Role of cations on the dissolution mechanism of kaolinite in high alkaline media. Applied Clay Science, 2021, 205, 106037.	2.6	6
77	Phasons and amplitudons in an n = 4 incommensurate structure: Phase II of biphenyl under pressure. Ferroelectrics, 1988, 78, 137-144.	0.3	5
78	From a one-dimensional crystal to a one-dimensional liquid: A comprehensive dynamical study of C<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>60</mml:mn></mml:msub></mml:math>peapods. Physical Review B, 2013, 87, .	1.1	5
79	Influence of the Al/Ge Ratio on the Structure and Self-Organization of Anisometric Imogolite Nanotubes. Crystals, 2020, 10, 1094.	1.0	5
80	Continuous Binder-Free Fibers of Pure Imogolite Nanotubes. ACS Applied Materials & Interfaces, 2021, 13, 17940-17947.	4.0	5
81	Mechanisms of Structural Reordering During Thermal Transformation of Aluminogermanate Imogolite Nanotubes. Journal of Physical Chemistry C, 2021, 125, 12414-12423.	1.5	5
82	Molecular Orientational Ordering in Solid C60. Fullerenes, Nanotubes, and Carbon Nanostructures, 1996, 4, 1287-1298.	0.6	4
83	Pretransitional cooperative dynamics in the incommensurate freezing of DRAPD glass: a neutron scattering study. Europhysics Letters, 1996, 33, 129-134.	0.7	4
84	Single crystal x-ray diffuse scattering studies of the intermolecular interactions in solid C60. Synthetic Metals, 1997, 86, 2327-2328.	2.1	4
85	Case studies of molecular disorder. Zeitschrift FÃ¼r Kristallographie, 2005, 220, .	1.1	4
86	Doping Liquid Crystals of Colloidal Inorganic Nanotubes by Additive-Free Metal Nanoparticles. Journal of Physical Chemistry Letters, 2021, 12, 5052-5058.	2.1	4
87	Decagonal Phases: Non-Quasi-Crystalline Microcrystalline State in an Al-Cu-Co-Si Alloy. Europhysics Letters, 1991, 14, 283-283.	0.7	3
88	Original Magnetic Alignment of a Nematic Phase Containing Single-Walled Nanotubes. Journal of Nanoscience and Nanotechnology, 2004, 4, 86-90.	0.9	3
89	X-ray diffraction study of the evolution of Fe-filled multiwalled carbon nanotubes under pressure. European Physical Journal B, 2009, 72, 145-151.	0.6	3
90	Inelastic neutron scattering of lithium tantalate studied in the ferroelectric and paraelectric phases. Journal of Physics Condensed Matter, 1993, 5, 2707-2718.	0.7	2

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91	Comment on â€œX-Ray Study of Glassy Behaviour in C60Single Crystalsâ€•and â€œStructural Relaxationin Glassy Phase of C60â€• Journal of the Physical Society of Japan, 1995, 64, 1862-1862.	0.7	2
92	Characterization of Single-walled Carbon Nanotube Fibers and Correlation with Stretch Alignment. Materials Research Society Symposia Proceedings, 2004, 858, 237.	0.1	2
93	In situ X-ray diffraction observation of two-step fullerene coalescence in carbon peapods. Europhysics Letters, 2013, 103, 66002.	0.7	2
94	Quasicrystals: a new type of organization in condensed matter. Endeavour, 1996, 20, 16-21.	0.1	1
95	Monte Carlo Studies of C₆₀- and C₇₀-Peapods. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 371-377.	1.0	1
96	Translational Dynamics of One-Dimensional Fullerene Chains Encapsulated Inside Single-Walled Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 395-400.	1.0	0
97	France: Charter for gender fairness at conferences. AIP Conference Proceedings, 2019, , .	0.3	0
98	De la simple hÃ©lice aux nanostructures tubulaires. , 2015, , 34-38.	0.1	0