

Stéphane Rols

List of Publications by Year in descending order

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150
papers

4,102
citations

117571

34
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138417

58
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150
all docs

150
docs citations

150
times ranked

4912
citing authors

#	ARTICLE	IF	CITATIONS
1	Manipulation of the crystalline phase diagram of hydrogen through nanoscale confinement effects in porous carbons. Nanoscale, 2022, 14, 7250-7261. Solidlike to liquidlike behavior of Cu diffusion in superionic Cu_2X $\text{X} = \text{S}, \text{Se}, \text{Te}$. Physical Review Materials, 2022, 6, .	2.8	6
2	Effect of pore geometry on ultra-densified hydrogen in microporous carbons. Carbon, 2021, 173, 968-979.	5.4	25
3	Phonons and lithium diffusion in LiAlO_2 . Physical Review B, 2021, 103, .	1.1	1
4	Experimental determination of the interaction potential between a helium atom and the interior surface of a C60 fullerene molecule. Journal of Chemical Physics, 2021, 155, 144302.	1.2	15
5	Importance of Axial Symmetry in Elucidating Lanthanide-Transition Metal Interactions. Inorganic Chemistry, 2020, 59, 235-243.	1.9	13
6	Effect of Nd and Rh substitution on the spin dynamics of the Kondo-insulator $\text{CeFe}_2\text{Al}_{10}$. Physical Review B, 2020, 102, .	1.1	3
7	Solid wetting-layers in inorganic nano-reactors: the water in imogolite nanotube case. Nanoscale Advances, 2020, 2, 1869-1877.	2.2	17
8	Phonons and oxygen diffusion in Bi_2O_3 and $(\text{Bi}_{0.7}\text{Y}_{0.3})_2\text{O}_3$. Journal of Physics Condensed Matter, 2020, 32, 334002.	0.7	2
9	Spin-phonon coupling and thermodynamic behaviour in YCrO_3 and LaCrO_3 : inelastic neutron scattering and lattice dynamics. Journal of Physics Condensed Matter, 2020, 32, 505402.	0.7	3
10	The Endofullerene HF@C_{60} : Inelastic Neutron Scattering Spectra from Quantum Simulations and Experiment, Validity of the Selection Rule, and Symmetry Breaking. Journal of Physical Chemistry Letters, 2019, 10, 5365-5371.	2.1	11
11	Lithium diffusion in Li_2O . Physical Review B, 2019, 100, .	0.9	7
12			

#	ARTICLE	IF	CITATIONS
19	Investigating anomalous thermal expansion of copper halides by inelastic neutron scattering and ab initio phonon calculations. Physical Chemistry Chemical Physics, 2017, 19, 12107-12116.	1.3	9
20	Anomalous lattice behavior of vanadium pentaoxide (V_2O_5): X-ray diffraction, inelastic neutron scattering and ab initio lattice dynamics. Physical Chemistry Chemical Physics, 2017, 19, 17967-17984.	1.3	20
21	Superionic conduction in $\hat{1}^2$ -eucryptite: inelastic neutron scattering and computational studies. Physical Chemistry Chemical Physics, 2017, 19, 15512-15520.	1.3	14
22	Role of phonons in negative thermal expansion and high pressure phase transitions in $\hat{1}^2$ -eucryptite: An <i>ab-initio</i> lattice dynamics and inelastic neutron scattering study. Journal of Applied Physics, 2017, 121, .	1.1	14
23	The dipolar endofullerene HF@C60. Nature Chemistry, 2016, 8, 953-957.	6.6	167
24	Localised Ag ⁺ vibrations at the origin of ultralow thermal conductivity in layered thermoelectric AgCrSe ₂ . Scientific Reports, 2016, 6, 23415.	1.6	34
25	Experimental, theoretical and computational investigation of the inelastic neutron scattering spectrum of a homonuclear diatomic molecule in a nearly spherical trap: $H_2@C_{60}$. Physical Chemistry Chemical Physics, 2016, 18, 29369-29380.	1.3	17
26	Hydrogen motions in defective graphene: the role of surface defects. Physical Chemistry Chemical Physics, 2016, 18, 24820-24824.	1.3	16
27	Lattice dynamics and thermal expansion behavior in the metal cyanides $M(CN)_x$. Physical Chemistry Chemical Physics, 2016, 18, 29369-29380.	1.1	26
28	Symmetry-breaking in the $H_2@C_{60}$ endofullerene revealed by inelastic neutron scattering at low temperature. Physical Chemistry Chemical Physics, 2016, 18, 1998-2005.	1.3	25
29	Structure and dynamics of the fullerene polymer Li_4C_{60} studied with neutron scattering. Physical Review B, 2015, 92, .	1.1	9
30	First neutron studies of the magnetism and rattling modes in CePt ₄ Ge ₁₂ . Journal of Physics: Conference Series, 2015, 592, 012011.	0.3	4
31	Spin-phonon coupling and high-temperature phase transition in multiferroic material YMnO ₃ . Journal of Materials Chemistry C, 2015, 3, 11717-11728.	2.7	12
32	Design of Single-Molecule Magnets: Insufficiency of the Anisotropy Barrier as the Sole Criterion. Inorganic Chemistry, 2015, 54, 7600-7606.	1.9	191
33	Hydrogen storage mechanism and lithium dynamics in Li ₁₂ C ₆₀ investigated by $\hat{1}^4$ SR. Carbon, 2015, 90, 130-137.	5.4	16
34	Hydrogen on graphene investigated by inelastic neutron scattering. Journal of Physics: Conference Series, 2014, 554, 012009.	0.3	20
35	Spin-phonon coupling, high-pressure phase transitions, and thermal expansion of multiferroic $GaFeO_3$: A combined first principles and inelastic neutron scattering study. Physical Review B, 2014, 90, .	1.1	13
36	Lattice dynamics of the icosahedral quasicrystals i-ZnMgSc and i-ZnAgSc and the cubic 1/1-approximant Zn ₆ Sc. Journal of Physics Condensed Matter, 2014, 26, 055402.	0.7	7

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37	Vibrational properties and phonon anharmonicity in ZnS $\hat{\sim}$ xSex: Inelastic neutron scattering, Raman scattering, X-ray diffraction measurements and lattice dynamical studies. Physica B: Condensed Matter, 2014, 433, 149-156.	1.3	5
38	Symmetry-breaking in the endofullerene H $\langle\sub>2\langle\sub>O@C\langle\sub>60\langle\sub>$ revealed in the quantum dynamics of ortho and para-water: a neutron scattering investigation. Physical Chemistry Chemical Physics, 2014, 16, 21330-21339.	1.3	59
39	Modifying the properties of 4f single-ion magnets by peripheral ligand functionalisation. Chemical Science, 2014, 5, 1650-1660.	3.7	159
40	Possible coupling between magnons and phonons in multiferroic $\langle\mathit{mml:math}\mathit{xmlns:mml="http://www.w3.org/1998/Math/MathML"}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:mi}\mathit{mathvariant="normal"}\rangle\mathit{CaMn}\langle\mathit{mml:mi}\rangle\langle\mathit{mml:mn}\rangle 7\langle\mathit{mml:mn}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:mi}\mathit{mathvariant="normal"}\rangle\mathit{O}\langle\mathit{mml:mi}\rangle\langle\mathit{mml:mn}\rangle 12\langle\mathit{mml:mn}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:math}\rangle$. Physical Review B, 2014, 90, .	1.1	18
41	Phonons, lithium diffusion and thermodynamics of LiMPO $\langle\sub>4\langle\sub>(M = Mn, Fe)$. Journal of Materials Chemistry A, 2014, 2, 14729-14738.	5.2	13
42	Vibrational Dynamics in Dendritic Oligoarylamines by Raman Spectroscopy and Incoherent Inelastic Neutron Scattering. Journal of Physical Chemistry B, 2014, 118, 5278-5288.	1.2	14
43	Tracking the Hydrogen Motion in Defective Graphene. Journal of Physical Chemistry C, 2014, 118, 7110-7116.	1.5	26
44	Confirming a Predicted Selection Rule in Inelastic Neutron Scattering Spectroscopy: The Quantum Translator-Rotator $\langle\mathit{mml:math}\mathit{xmlns:mml="http://www.w3.org/1998/Math/MathML"}\mathit{display="inline"}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:mi}\mathit{mathvariant="normal"}\rangle\mathit{H}\langle\mathit{mml:mi}\rangle\langle\mathit{mml:mn}\rangle 2\langle\mathit{mml:mn}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:math}\rangle$ Entrapped Inside $\langle\mathit{mml:math}\mathit{xmlns:mml="http://www.w3.org/1998/Math/MathML"}\mathit{display="inline"}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:mi}\mathit{mathvariant="normal"}\rangle\mathit{C}\langle\mathit{mml:mi}\rangle\langle\mathit{mml:mn}\rangle 60\langle\mathit{mml:mn}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:math}\rangle$	2.9	27
45	Phonons, nature of bonding, and their relation to anomalous thermal expansion behavior of M2O (M) Tj ETQq1 1 0,784314 rgBT /Over	1.1	80
46	Soft-phonon mediated structural phase transition in GeTe. Physical Review B, 2014, 89, .	1.1	56
47	Specific Heat of (GeTe) $\langle\sub>\langle\mathit{i}\rangle\mathit{x}\langle\mathit{i}\rangle\langle\sub>(Sb\langle\sub>2\langle\sub>Te\langle\sub>3\langle\sub>\rangle\langle\sub>1\hat{\epsilon}\langle\mathit{i}\rangle\mathit{x}\langle\mathit{i}\rangle\langle\sub>$ Phase-Change Materials: The Impact of Disorder and Anharmonicity. Chemistry of Materials, 2014, 26, 2307-2312.	3.2	40
48	Possible undercompensation effect in the Kondo insulator (Yb,Tm)B $\langle\mathit{mml:math}\mathit{xmlns:mml="http://www.w3.org/1998/Math/MathML"}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:mrow}\mathit{/}\rangle\langle\mathit{mml:mn}\rangle 12\langle\mathit{mml:mn}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:math}\rangle$. Physical Review B, 2014, 89, .	1.1	14
49	Phonon dynamics and inelastic neutron scattering of sodium niobate. Physical Review B, 2014, 89, .	1.1	18
50	Electromagnon in ferrimagnetic $\langle\mathit{mml:math}\mathit{xmlns:mml="http://www.w3.org/1998/Math/MathML"}\mathit{display="inline"}\rangle\langle\mathit{mml:mrow}\rangle\langle\mathit{mml:mi}\rangle\mathit{E}\langle\mathit{mml:mi}\rangle\langle\mathit{mml:mo}\rangle\hat{\sim}\langle\mathit{mml:mo}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:mi}\mathit{mathvariant="bold"}\rangle\mathit{Fe}\langle\mathit{mml:mi}\rangle\langle\mathit{mml:mn}\mathit{mathvariant="bold"}\rangle 2\langle\mathit{mml:mn}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:mi}\mathit{mathvariant="bold"}\rangle\mathit{O}\langle\mathit{mml:mi}\rangle\langle\mathit{mml:mn}\mathit{mathvariant="bold"}\rangle 3\langle\mathit{mml:mn}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:mrow}\rangle\langle\mathit{mml:math}\rangle$ nanograin ceramics. Physical Review B, 2014, 89, .	1.1	13
51	Quantum rotation and translation of hydrogen molecules encapsulated inside C $\langle\sub>60\langle\sub>$: temperature dependence of inelastic neutron scattering spectra. Philosophical Transactions Series A, 2014, 371, 201306219.	1.6	32
52	Spin-phonon coupling in K $\langle\mathit{mml:math}\mathit{xmlns:mml="http://www.w3.org/1998/Math/MathML"}\mathit{display="inline"}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:mrow}\mathit{/}\rangle\langle\mathit{mml:mrow}\rangle\langle\mathit{mml:mn}\rangle 0.8\langle\mathit{mml:mn}\rangle\langle\mathit{mml:mrow}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:math}\rangle\mathit{Fe}\langle\mathit{mml:math}\mathit{xmlns:mml="http://www.w3.org/1998/Math/MathML"}\mathit{display="inline"}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:mrow}\mathit{/}\rangle\langle\mathit{mml:mrow}\rangle\langle\mathit{mml:mn}\rangle 1.6\langle\mathit{mml:mn}\rangle\langle\mathit{mml:mrow}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:math}\rangle\mathit{Se}\langle\mathit{mml:math}\mathit{xmlns:mml="http://www.w3.org/1998/Math/MathML"}\mathit{display="inline"}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:mrow}\mathit{/}\rangle\langle\mathit{mml:mrow}\rangle\langle\mathit{mml:mn}\rangle 1.6\langle\mathit{mml:mn}\rangle\langle\mathit{mml:mrow}\rangle\langle\mathit{mml:msub}\rangle\langle\mathit{mml:math}\rangle$	1.1	17
53	The temperature dependence of the phononic band gap of NaI. Journal of Physics Condensed Matter, 2013, 25, 055403.	0.7	14
54	Phonon $\hat{\epsilon}$ “magnon coupling in CoF $\hat{\epsilon}$ 2 investigated by time-of-flight neutron spectroscopy. Solid State Communications, 2013, 174, 55-62.	0.9	4

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55	X-ray Scattering Determination of the Structure of Water during Carbon Nanotube Filling. Nano Letters, 2013, 13, 1751-1756.	4.5	35
56	Spin dynamics in the unconventional multiferroic AgCrS_2 . Physical Review B, 2013, 87, .	1.1	14
57	Crystal field manifestation in inelastic neutron scattering, magnetic susceptibility and specific heat of the antiferromagnetic CeCoAl_4 . Journal of Magnetism and Magnetic Materials, 2013, 345, 243-248.	1.0	2
58	Atomic Dynamics in Complex Metallic Alloys. Materials Research Society Symposia Proceedings, 2013, 1517, 1.	0.1	0
59	Tetrahedron dynamics in the icosahedral quasicrystals i-ZnMgSc and i-ZnAgSc and the cubic 1/1-approximant Zn_{60}Sc . Journal of Physics Condensed Matter, 2013, 25, 115405.	0.7	11
60	Neutron scattering and ^{15}N SR investigations of the low temperature state of LuCuGaO_4 . Journal of Physics Condensed Matter, 2013, 25, 356002.	0.7	6
61	From a one-dimensional crystal to a one-dimensional liquid: A comprehensive dynamical study of C_{60} peapods. Physical Review B, 2013, 87, .	1.1	5
62	In situ X-ray diffraction observation of two-step fullerene coalescence in carbon peapods. Europhysics Letters, 2013, 103, 66002.	0.7	2
63	Dynamical Flexibility in the Periodic Zn_{60}Sc 1/1-Approximant. , 2013, , 253-259.		0
64	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
65	Progressive melting in confined one-dimensional C_{60} chains. Physical Review B, 2012, 86, .	1.1	8
66	Ordering and dynamics of the central tetrahedron in the 1/1 Zn_{60}Sc periodic approximant to quasicrystal. Journal of Physics Condensed Matter, 2012, 24, 415403.	0.7	18
67	Search for Light-Induced Intrinsic Localized Modes: Negative Result. Ferroelectrics, 2012, 440, 42-46.	0.3	1
68	High Pressure Phase Transitions in Yttria , Y_2O_3 . Journal of Physics: Conference Series, 2012, 377, 012036.	0.3	4
69	Local Structure, Dynamics, and the Mechanisms of Oxide Ionic Conduction in $\text{Bi}_{26}\text{Mo}_{10}\text{O}_{69}$. Chemistry of Materials, 2012, 24, 4607-4614.	3.2	30
70	Inelastic neutron scattering investigations of the quantum molecular dynamics of a H_2 molecule entrapped inside a fullerene cage. Physical Review B, 2012, 85, .	1.1	45
71	Vibrations and hydrogen bonding in porphycene. Physical Chemistry Chemical Physics, 2012, 14, 5489.	1.3	41
72	Quantum rotation of <i>ortho</i> - and <i>para</i> -water encapsulated in a fullerene cage. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12894-12898.	3.3	135

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73	New Insights on Vibrational Dynamics of Corannulene. Journal of Physical Chemistry C, 2012, 116, 25089-25096.	1.5	14
74	Central Atom Size Effects on the Methyl Torsions of Group XIV Tetratolyls. Chemistry - A European Journal, 2012, 18, 13018-13024.	1.7	8
75	Unravelling low lying phonons and vibrations of carbon nanostructures: The contribution of inelastic and quasi-elastic neutron scattering. European Physical Journal: Special Topics, 2012, 213, 77-102.	1.2	10
76	Nanometric confinement: Toward new physical properties and technological developments. European Physical Journal: Special Topics, 2012, 213, 129-148.	1.2	5
77	Inelastic neutron scattering an ab-initio calculation of negative thermal expansion in Ag ₂ O. Physica B: Condensed Matter, 2012, 407, 2146-2149.	1.3	8
78	From Heavy Fermion and Spin-Glass Behavior to Magnetic Order in CeT ₄ M Compounds. Acta Physica Polonica A, 2012, 121, 1014-1018.	0.2	1
79	Phase transitions and thermodynamic properties of yttria, Y ₂ O ₃ . Inelastic neutron scattering shell model and first-principles calculations. Physical Review B, 2011, 84, .	1.1	35
80	Inelastic Neutron Scattering and Ab-Initio Calculation of Negative Thermal Expansion in Ag ₂ O. , 2011, .		0
81	Direct Determination of the Base-Pair Force Constant of DNA from the Acoustic Phonon Dispersion of the Double Helix. Physical Review Letters, 2011, 107, 088102.	2.9	24
82	Anomalous vibrational dynamics in the Mg ₂ Zn ₂ alloy. Inelastic neutron scattering shell model and first-principles calculations. Physical Review B, 2011, 84, .	1.1	28
83	Lattice dynamics of a rotor-stator molecular crystal: Fullerene-cubane. Physical Review B, 2010, 82, .	1.1	8
84	Communication: High-frequency acoustic excitations and boson peak in glasses: A study of their temperature dependence. Journal of Chemical Physics, 2010, 133, 041101.	1.2	34
85	Neutron diffraction study of p-phenylene oligomer molecules adsorbed onto graphite. Thin Solid Films, 2010, 518, 3786-3791.	0.8	0
87	Quantum fluctuations and the magnetic ground state of Ce ₃ Co ₂ . Inelastic neutron scattering of a quantum translator-rotator encapsulated in a closed fullerene cage: Isotope effects and translation-rotation coupling in H ₂ . Physical Review B, 2010, 82, .	1.1	29
88	Study of C ₆₀ Peapods After a High-Pressure High-Temperature Treatment. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 412-416.	1.1	57
89	Understanding of ultra-cold neutron production in solid deuterium. Europhysics Letters, 2010, 92, 62001.	1.0	6
90		0.7	15

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91	Magnetic lattice dynamics of the oxygen-free FeAs pnictides: how sensitive are phonons to magnetic ordering?. Journal of Physics Condensed Matter, 2010, 22, 315701.	0.7	24
92	Lattice dynamics of rhenium trioxide from the quasiharmonic approximation. Physical Review B, 2010, 82, .	1.1	29
93	Phonons et vibrations dans les fullères, les nanotubes de carbone et leurs composés. , 2010, , .		0
94	Density of states in solid deuterium: Inelastic neutron scattering study. Physical Review B, 2009, 80, .	1.1	17
95	Effects of magnetic doping and temperature dependence of phonon dynamics in $\text{CaFe}_{1-x}\text{Co}_x\text{AsF}$ compounds ($x=0, 0.06$, and 0.12). Physical Review B, 2009, 79, .	1.1	20
96	Ab initio lattice dynamics simulations and inelastic neutron scattering spectra for studying phonons in $\text{BaFe}_{2-x}\text{Co}_x\text{As}_2$. Effect of structural phase transition, structural relaxation, and magnetic ordering. Physical Review B, 2009, 79, .	2.1	64
97	Phonon spectra in CaFe_2As_2 and $\text{Ca}_{0.6}\text{Na}_{0.4}\text{Fe}_2\text{As}_2$: Measurement of the pressure and temperature dependence and comparison with ab initio and shell model calculations. Physical Review B, 2009, 79, .	1.1	17
98	The structure of diaminodurene and the dynamics of the methyl groups. Journal of Chemical Physics, 2009, 130, 164519.	1.2	5
99	Crystal field states in. Solid State Communications, 2009, 149, 2240-2243.	0.9	14
100	Connection between Boson Peak and Elastic Properties in Silicate Glasses. Physical Review Letters, 2009, 102, 195502.	2.9	61
101	Lattice Dynamics of Oligo(phenylenethienylene)s: A Far-Infrared and Inelastic Neutron Scattering Study. Journal of Physical Chemistry B, 2009, 113, 4197-4202.	1.2	9
102	Quantum Translator-Rotator: Inelastic Neutron Scattering of Dihydrogen Molecules Trapped inside Anisotropic Fullerene Cages. Physical Review Letters, 2009, 102, 013001.	2.9	61
103	X-ray diffraction as a tool for the determination of the structure of double-walled carbon nanotube batches. Physical Review B, 2009, 79, .	1.1	22
104	How Confinement Affects the Dynamics of C_{60} in Carbon Nanopeapods. Physical Review Letters, 2008, 101, 065507.	2.9	40
105	Inelastic neutron scattering due to acoustic vibrations confined in nanoparticles: Theory and experiment. Physical Review B, 2008, 78, .	1.1	15
106	Phonon dynamics in $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ and $\text{Ca}_{0.6}\text{Na}_{0.4}\text{Fe}_2\text{As}_2$ from neutron scattering and lattice-dynamical calculations. Physical Review B, 2008, 78, .	1.1	23
107	New Insight into the Vibrational Behavior of Nickel Hydroxide and Oxyhydroxide Using Inelastic Neutron Scattering, Far/Mid-Infrared and Raman Spectroscopies. Journal of Physical Chemistry C, 2008, 112, 2193-2201.	1.5	119
108	The structure, methyl rotation reflected in inelastic and quasielastic neutron scattering and vibrational spectra of 1,2,3,5-tetramethoxybenzene and its 2:1 complex with 1,2,4,5-tetracyanobenzene. Journal of Chemical Physics, 2008, 129, 154506.	1.2	8

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109	Probing the Dynamics of C ₆₀ Encaged Inside Single-Walled Carbon Nanotubes by Inelastic Neutron Scattering. Fullerenes Nanotubes and Carbon Nanostructures, 2008, 16, 463-470.	1.0	1
110	Melting mechanism of monolayers adsorbed in cylindrical pores: The influence of the pore wall roughness. Journal of Chemical Physics, 2008, 128, 184703.	1.2	6
111	Inelastic neutron scattering and lattice-dynamical calculations of BaFe ₂ As ₂ . Physical Review B, 2008, 78, .	1.1	54
112	Discriminated structural behaviour of C ₆₀ and C ₇₀ peapods under extreme conditions. Europhysics Letters, 2007, 79, 56003.	0.7	28
113	Hydrogen in N-Methylacetamide: Positions and Dynamics of the Hydrogen Atoms Using Neutron Scattering. Journal of Physical Chemistry B, 2007, 111, 7725-7734.	1.2	11
114	Size-Dependent Phase Transition of Diamond to Graphite at High Pressures. Journal of Physical Chemistry C, 2007, 111, 12918-12925.	1.5	18
115	Monitoring molecular motion in nano-porous solids. Comptes Rendus Physique, 2007, 8, 777-788.	0.3	36
116	Melting mechanism of monolayers adsorbed in cylindrical pores: An influence of the pore wall roughness. Applied Surface Science, 2007, 253, 5601-5605.	3.1	4
117	Structural properties of carbon peapods under extreme conditions studied using in situ x-ray diffraction. Physical Review B, 2006, 74, .	1.1	28
118	Spectroscopies on Carbon Nanotubes. , 2006, , 277-334.		2
119	Diffraction of oriented nano-peapods. European Physical Journal B, 2006, 49, 147-155.	0.6	10
120	Calculation of Raman-active modes in linear and zigzag phases of fullerene peapods. Physical Review B, 2006, 74, .	1.1	22
121	Tunable intertube spacing in single-walled carbon nanotube bundles. Physical Review B, 2005, 72, .	1.1	15
122	Low-frequency excitations of C ₆₀ chains inserted inside single-walled carbon nanotubes. Physical Review B, 2005, 71, .	1.1	23
123	Argon adsorption in open-ended single-wall carbon nanotubes. Physical Review B, 2005, 71, .	1.1	55
124	Low-Frequency Phonons in High-Pressure High-Temperature C ₆₀ Polymers. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 12, 263-268.	1.0	2
125	Lattice dynamics of pressure-polymerized phases of C ₆₀ : A neutron scattering investigation. Physical Review B, 2004, 70, .	1.1	11
126	Structural determination of iodine localization in single-walled carbon nanotube bundles by diffraction methods. Physical Review B, 2004, 69, .	1.1	40

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127	Structure and dynamics of carbon buckyballs encapsulated into Single-Walled carbon Nanotubes. Materials Research Society Symposia Proceedings, 2004, 858, 22.	0.1	0
128	On the diffraction pattern of C C_{60} peapods. European Physical Journal B, 2004, 42, 31-45.	0.6	51
129	Dynamical disorder and reorientation of the CH ₃ groups in N-methylacetamide. Physica B: Condensed Matter, 2004, 350, E587-E589.	1.3	2
130	Neutron diffraction and numerical modelling investigation of methane adsorption on bundles of carbon nanotubes. Chemical Physics, 2003, 293, 217-230.	0.9	56
131	Orientation of single-walled carbon nanotubes by uniaxial pressure. Journal of Applied Physics, 2003, 93, 1769-1773.	1.1	43
132	Nonresonant Raman spectrum in infinite and finite single-wall carbon nanotubes. Physical Review B, 2002, 66, .	1.1	72
133	Phonons in single wall carbon nanotube bundles. Carbon, 2002, 40, 1697-1714.	5.4	124
134	Diameter dependence of Raman intensities for single-wall carbon nanotubes. Physical Review B, 2001, 63, .	1.1	35
135	Polygonization of single-wall carbon nanotube bundles under high pressure. Physical Review B, 2001, 64, .	1.1	87
136	Resonant Raman study of the structure and electronic properties of single-wall carbon nanotubes. Chemical Physics Letters, 2000, 316, 186-190.	1.2	226
137	Structure and dynamics of single-wall-carbon nanotubes probed by neutron scattering. Physica B: Condensed Matter, 2000, 276-278, 276-277.	1.3	4
138	Excitation energy dependence of the Raman spectrum of single-walled carbon nanotubes. Chemical Physics Letters, 2000, 320, 441-447.	1.2	49
139	Diameter distribution of single wall carbon nanotubes in nanobundles. European Physical Journal B, 2000, 18, 201-205.	0.6	109
140	Phonon Density of States of Single-Wall Carbon Nanotubes. Physical Review Letters, 2000, 85, 5222-5225.	2.9	73
141	Neutron scattering studies of the structure and dynamics of nanobundles of single-wall carbon nanotubes. Applied Physics A: Materials Science and Processing, 1999, 69, 591-596.	1.1	20
142	Structure and vibrational properties of single wall carbon nanotubes. Synthetic Metals, 1999, 103, 2537-2539.	2.1	1
143	Structure of singlewall carbon nanotubes: neutron powder diffraction and simulations.. Synthetic Metals, 1999, 103, 2517-2518.	2.1	0
144	Diffraction by finite-size crystalline bundles of single wall nanotubes. European Physical Journal B, 1999, 10, 263-270.	0.6	123

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145	The Vibrational Density-of-States of Nanobundles of Single Wall Carbon Nanotubes: An Inelastic Neutron Scattering Study. Materials Research Society Symposia Proceedings, 1999, 593, 101.	0.1	0
146	On the Raman Spectrum of Nanobundles of Single Wall Carbon Nanotubes. Materials Research Society Symposia Proceedings, 1999, 593, 107.	0.1	1
147	Neutron scattering studies of carbon nanotubes. , 1999, , .		0
148	Introduction of fractal absorbing boundary conditions in electromagnetic simulation by SMM. Modelling and Simulation in Materials Science and Engineering, 1998, 6, 111-121.	0.8	3
149	Comment on "Effect of the Growth Temperature on the Diameter Distribution and Chirality of Single-Wall Carbon Nanotubes". Physical Review Letters, 1998, 81, 4780-4780.	2.9	20
150	Molecular dynamics of single wall nanotubes. , 1998, , .		0