Philippe Lambin

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.

278 papers	10,476 citations	55 h-index	93 g-index
293 ext. papers	11,079 ext. citations	3.9 avg, IF	6.02 L-index

#	Paper	IF	Citations
278	Thermal and Electromagnetic Properties of Polymer Holey Structures Produced by Additive Manufacturing. *Polymers*, **2020**, 12,	4.5	1
277	Facile and scalable fabrication of highly thermal conductive polyethylene/graphene nanocomposites by combining solid-state shear milling and FDM 3D-printing aligning methods. *Chemical Engineering Journal*, **2020**, 402, 126218	14.7	44
276	Electrokinetic Properties of 3D-Printed Conductive Lattice Structures. *Applied Sciences (Switzerland)*, **2019**, 9, 541	2.6	3
275	Graphene on epsilon-near-zero metamaterials as perfect electromagnetic absorber **2019**, 169-189		1
274	Stability of edge magnetism against disorder in zigzag MoS2 nanoribbons. *Physical Review Materials* , **2019**, 3,	3.2	1
273	Modeling the electrical properties of three-dimensional printed meshes with the theory of resistor lattices. *Physical Review E*, **2018**, 97, 043307	2.4	18
272	Modified Brewster angle on conducting 2D materials. *2D Materials*, **2018**, 5, 025007	5.9	8
271	Alternative expression of the Bloch wave group velocity in loss-less periodic media using the electromagnetic field energy. *Journal of Modern Optics*, **2018**, 65, 213-220	1.1	0
270	Localized plasmon resonance in boron-doped multiwalled carbon nanotubes. *Physical Review B*, **2018**, 97,	3.3	6
269	Main principles of passive devices based on graphene and carbon films in microwave-THz frequency range. *Journal of Nanophotonics*, **2017**, 11, 032504	1.1	40
268	Effect of graphene grains size on the microwave electromagnetic shielding effectiveness of graphene/polymer multilayers. *Journal of Nanophotonics*, **2017**, 11, 032511	1.1	3
267	Electronic Dynamics in Graphene and MoS2 Systems. *Physica Status Solidi (B): Basic Research*, **2017**, 254, 1700179	1.3	3
266	Graphene as a Prototypical Model for Two-Dimensional Continuous Mechanics. *Applied Sciences (Switzerland)*, **2017**, 7, 830	2.6	2
265	Perfect electromagnetic absorption using graphene and epsilon-near-zero metamaterials. *Physical Review B*, **2016**, 93,	3.3	27
264	Scattering of Dirac Electrons by Randomly Distributed Nitrogen Substitutional Impurities in Graphene. *Applied Sciences (Switzerland)*, **2016**, 6, 256	2.6	2
263	Enhanced microwave-to-terahertz absorption in graphene. *Applied Physics Letters*, **2016**, 108, 123101	3.4	75
262	Electromagnetic properties of graphene nanoplatelets/epoxy composites. *Composites Science and Technology*, **2016**, 128, 75-83	8.6	40

261	Wave Packet Dynamical Calculations for Carbon Nanostructures. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2016**, 89-102	0.2	2
260	Bilayered graphene as a platform of nanostructures with folded edge holes. *Physical Chemistry Chemical Physics*, **2016**, 18, 27432-27441	3.6	17
259	Transport regimes in nitrogen-doped carbon nanotubes: Perfect order, semi-random, and random disorder cases. *Physical Review B*, **2015**, 91,	3.3	6
258	Robust electromagnetic absorption by graphene/polymer heterostructures. *Nanotechnology*, **2015**, 26, 285702	3.4	23
257	Flexible transparent graphene/polymer multilayers for efficient electromagnetic field absorption. *Scientific Reports*, **2014**, 4, 7191	4.9	102
256	Revealing the innermost nanostructure of sputtered NiCrOx solar absorber cermets. *Solar Energy Materials and Solar Cells*, **2014**, 122, 303-308	6.4	18
255	Effect of the disorder in graphene grain boundaries: A wave packet dynamics study. *Applied Surface Science*, **2014**, 291, 58-63	6.7	17
254	Long-range resonant effects on electronic transport of nitrogen-doped carbon nanotubes. *Physical Review B*, **2014**, 89,	3.3	7
253	Elastic Properties and Stability of Physisorbed Graphene. *Applied Sciences (Switzerland)*, **2014**, 4, 282-304	2.6	46
252	Grain boundaries in graphene grown by chemical vapor deposition. *New Journal of Physics*, **2013**, 15, 035024	2.9	103
251	Electronic states of disordered grain boundaries in graphene prepared by chemical vapor deposition. *Carbon*, **2013**, 64, 178-186	10.4	33
250	Electronic transport through ordered and disordered graphene grain boundaries. *Carbon*, **2013**, 64, 101-110	10.4	27
249	Epoxy composites filled with high surface area-carbon fillers: Optimization of electromagnetic shielding, electrical, mechanical, and thermal properties. *Journal of Applied Physics*, **2013**, 114, 164304	2.5	58
248	Theoretical Raman intensity of the G and 2D bands of strained graphene. *Carbon*, **2013**, 54, 86-93	10.4	27
247	Effect of nitrogen doping on the electromagnetic properties of carbon nanotube-based composites. *Journal of Applied Physics*, **2013**, 113, 144315	2.5	51
246	Theoretical 2D Raman band of strained graphene. *Physical Review B*, **2013**, 87,	3.3	18
245	Theoretical Raman fingerprints of [illegible] and [illegible]graphyne. *Physical Review B*, **2013**, 88,	3.3	55
244	Nanoscale lithography of graphene with crystallographic orientation control. *Physica E: Low-Dimensional Systems and Nanostructures*, **2012**, 44, 971-975	3	3

243	Time and energy dependent dynamics of the STM tip graphene system. *European Physical Journal B*, **2012**, 85, 1	1.2	2
242	Long-range interactions between substitutional nitrogen dopants in graphene: Electronic properties calculations. *Physical Review B*, **2012**, 86,	3.3	83
241	Graphene: nanoscale processing and recent applications. *Nanoscale*, **2012**, 4, 1824-39	7.7	98
240	Theoretical polarization dependence of the two-phonon double-resonant Raman spectra of graphene. *European Physical Journal B*, **2012**, 85, 1	1.2	14
239	Anisotropic dynamics of charge carriers in graphene. *Physical Review B*, **2012**, 85,	3.3	18
238	Forming electronic waveguides from graphene grain boundaries. *Journal of Nanophotonics*, **2012**, 6, 061718	1.8	6
237	The narrowest possible graphene nanoribbon was synthesized fifty years ago. *Nanopages*, **2012**, 7, 25-27	0	
236	Comment on "Are volume plasmons excitable by classical light?". *Physical Review Letters*, **2010**, 104, 149701; author reply 149702	7.4	4
235	Dynamic and charge doping effects on the phonon dispersion of graphene. *Physical Review B*, **2010**, 82,	3.3	11
234	Carbon onions for electromagnetic applications **2010**,		1
233	Dielectric properties of a novel high absorbing onion-like-carbon based polymer composite. *Diamond and Related Materials*, **2010**, 19, 91-99	3.5	23
232	Non-adiabatic phonon dispersion of metallic single-walled carbon nanotubes. *Nano Research*, **2010**, 3, 822-829	10	6
231	ELECTRONIC AND VIBRATIONAL POLARIZABILITIES OF BUCKMINSTERFULLERENE. *Bulletin Des Sociétés Chimiques Belges*, **2010**, 103, 135-141		1
230	Nanopatterning of graphene with crystallographic orientation control. *Carbon*, **2010**, 48, 2677-2689	10.4	61
229	Crystallographically oriented high resolution lithography of graphene nanoribbons by STM lithography. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 896-902	1.3	25
228	Intermediate frequency Raman spectra of defective single-walled carbon nanotubes. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 892-895	1.3	1
227	Theoretical phonon dispersion of armchair and metallic zigzag carbon nanotubes beyond the adiabatic approximation. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 2784-2788	1.3	5
226	Onion-like-carbon-based composite films: Theoretical modeling of electromagnetic response. *Solid State Sciences*, **2009**, 11, 1752-1756	3.4	10

225	Onion-like carbon based polymer composite films in microwaves. *Solid State Sciences*, **2009**, 11, 1762-1767	3.4	14
224	Dielectric properties of onion-like carbon based polymer films: Experiment and modeling. *Solid State Sciences*, **2009**, 11, 1828-1832	3.4	9
223	Theoretical resonant Raman spectra of nanotube (7,0) with point defects. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 2602-2605	1.3	10
222	Electromagnetic shielding properties of MWCNT/PMMA composites in Ka-band. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 2662-2666	1.3	34
221	Electron energy loss spectroscopy of surface and interface phonons of insulators, semiconductors, and superlattices. *International Journal of Quantum Chemistry*, **2009**, 28, 687-705	2.1	0
220	Dielectric properties of MWCNT based polymer composites close and below percolation threshold. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2009**, 6, 2814-2816		5
219	Nano-scaled onion-like carbon: Prospective material for microwave coatings. *Metamaterials*, **2009**, 3, 148-156		22
218	Confinement in molecular sieves: The pioneering physical concepts. *Journal of Molecular Catalysis A* , **2009**, 305, 16-23		13
217	Scanning tunneling microscopy observation of circular electronic superstructures on multiwalled carbon nanotubes functionalised by nitric acid. *Carbon*, **2009**, 47, 764-768	10.4	5
216	Resonant Raman spectra of graphene with point defects. *Carbon*, **2009**, 47, 2448-2455	10.4	30
215	Influence of Humidity on Dielectric Properties of PMMA Nanocomposites Containing Onion-Like Carbon. *Ferroelectrics*, **2009**, 391, 131-138	0.6	2
214	Dielectric Response of Onion-Like Carbon-Based Polymethyl Methacrylate Composites. *Journal of Nanoelectronics and Optoelectronics*, **2009**, 4, 261-266	1.3	2
213	Onion-Like Carbon in Microwaves: Electromagnetic Absorption Bands and Percolation Effect. *Journal of Nanoelectronics and Optoelectronics*, **2009**, 4, 257-260	1.3	10
212	Tailoring the atomic structure of graphene nanoribbons by scanning tunnelling microscope lithography. *Nature Nanotechnology*, **2008**, 3, 397-401	28.7	779
211	Terahertz probing of onion-like carbon-PMMA composite films. *Diamond and Related Materials*, **2008**, 17, 1608-1612	3.5	33
210	Theoretical study of the vibrational edge modes in graphene nanoribbons. *Physical Review B*, **2008**, 78,	3.3	74
209	An electrostatic interaction model for frequency-dependent polarizability: methodology and applications to hydrocarbons and fullerenes. *Nanotechnology*, **2008**, 19, 025203	3.4	18
208	Controllable electromagnetic response of onion-like carbon based materials. *Physica Status Solidi (B): Basic Research*, **2008**, 245, 2051-2054	1.3	28

207	Wave packet dynamical simulation of electron transport through a line defect on the graphene surface. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 2635-2638	3	2
206	Tuning the electronic structure of graphene by ion irradiation. *Physical Review B*, **2008**, 78,	3.3	179
205	Dipole polarizability of onion-like carbons and electromagnetic properties of their composites. *Nanotechnology*, **2008**, 19, 115706	3.4	34
204	Catalytically assisted tip growth mechanism for single-wall carbon nanotubes. *ACS Nano*, **2007**, 1, 202-7	16.7	40
203	Scanning tunneling microscopy fingerprints of point defects in graphene: A theoretical prediction. *Physical Review B*, **2007**, 76,	3.3	146
202	Study of the polarizability of fullerenes with a monopole–dipole interaction model. *Diamond and Related Materials*, **2007**, 16, 2145-2149	3.5	17
201	Characterization of single-walled carbon nanotubes containing defects from their local vibrational densities of states. *Carbon*, **2007**, 45, 349-356	10.4	22
200	Symmetry-adapted tight-binding calculations of the totally symmetric A1 phonons of single-walled carbon nanotubes and their resonant Raman intensity. *Physica E: Low-Dimensional Systems and Nanostructures*, **2007**, 37, 97-104	3	6
199	Filtering out the transmission of electron Fermi states with odd symmetry through a carbon nanotube junction. *Journal of Physics Condensed Matter*, **2007**, 19, 041001	1.8	
198	Attenuation of electromagnetic waves in onion-like carbon composites. *Diamond and Related Materials*, **2007**, 16, 1231-1235	3.5	47
197	Theory of Scanning Probe Microscopy **2007**, 455-479		
196	Electron scattering in a multiwall carbon nanotube bend junction studied by scanning tunneling microscopy. *Physical Review B*, **2006**, 74,	3.3	14
195	Intraband electron-phonon scattering in single-walled carbon nanotubes. *Physical Review B*, **2006**, 74,	3.3	41
194	Resonant Raman intensity of the totally symmetric phonons of single-walled carbon nanotubes. *Physical Review B*, **2006**, 73,	3.3	39
193	Charge-dipole model to compute the polarization of fullerenes. *Applied Physics Letters*, **2006**, 89, 063117	3.4	42
192	Structural Analysis by Elastic Scattering Techniques. *Lecture Notes in Physics*, **2006**, 131-198	0.8	1
191	Symmetry-adapted tight-binding calculations of the phonon dispersion and the resonant Raman intensity of the totally symmetric phonons of single-walled carbon nanotubes. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 3480-3484	1.3	1
190	Computation of the static polarizabilities of multi-wall carbon nanotubes and fullerites using a Gaussian regularized point dipole interaction model. *Carbon*, **2006**, 44, 2883-2895	10.4	37

189	Radius and chirality dependence of the radial breathing mode and the G-band phonon modes of single-walled carbon nanotubes. *Physical Review B*, **2006**, 73,	3.3	117
188	VIBRATIONAL AND RELATED PROPERTIES OF CARBON NANOTUBES **2006**, 69-88		1
187	ELECTRONIC TRANSPORT IN NANOTUBES AND THROUGH JUNCTIONS OF NANOTUBES **2006**, 123-142		1
186	SCANNING TUNNELING MICROSCOPY AND SPECTROSCOPY OF CARBON NANOTUBES **2006**, 19-42		1
185	Electronic transport properties of carbon nanotube based metal/semiconductor/metal intramolecular junctions. *Nanotechnology*, **2005**, 16, 230-3	3.4	101
184	Regularly Curved Carbon Nanotubes. *Fullerenes Nanotubes and Carbon Nanostructures*, **2005**, 13, 523-533	1.8	2
183	Vacuum Field Effects in Atomically Doped Carbon Nanotubes. *Fullerenes Nanotubes and Carbon Nanostructures*, **2005**, 13, 21-31	1.8	
182	Diffraction by DNA, carbon nanotubes and other helical nanostructures. *Reports on Progress in Physics*, **2005**, 68, 1181-1249	14.4	44
181	Calculation of the electrostatic forces that act on carbon nanotubes placed in the vicinity of metallic protrusions. *Nanotechnology*, **2005**, 16, 2685-2695	3.4	19
180	Electron-phonon and electron-photon interactions and resonant Raman scattering from the radial-breathing mode of single-walled carbon nanotubes. *Physical Review B*, **2005**, 72,	3.3	80
179	van der Waals coupling in atomically doped carbon nanotubes. *Physical Review B*, **2005**, 72,	3.3	47
178	Structural origin of coiling in coiled carbon nanotubes. *Carbon*, **2005**, 43, 1628-1633	10.4	31
177	The van der Waals energy of an atom near a carbon nanotube. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2005**, 99, 475	0.7	3
176	Use of specific functionalised tips with STM: a new identification method of ester groups and their molecular structure in self-assembled overlayers. *Chemistry - A European Journal*, **2005**, 11, 4185-90	4.8	13
175	Resonant Raman Intensity Of The Radial-Breathing Mode Of Single-Walled Carbon Nanotubes. *AIP Conference Proceedings*, **2005**,	0	1
174	Highlighting functional groups in self-assembled overlayers with specific functionalized scanning tunnelling microscopy tips. *Nanotechnology*, **2005**, 16, 2596-2600	3.4	5
173	Calculation of axial charge spreading in carbon nanotubes and nanotube Y junctions during STM measurement. *Physical Review B*, **2004**, 70,	3.3	11
172	Theory of Scanning Probe Microscopy of Carbon Nanostructures. *Materials Research Society Symposia Proceedings*, **2004**, 838, 79		

171	van der Waals energy under strong atom-field coupling in doped carbon nanotubes. *Solid State Communications*, **2004**, 132, 203-207	1.6	19
170	Vacuum-field Rabi oscillations in atomically doped carbon nanotubes. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2004**, 328, 235-240	2.3	14
169	Atomic spontaneous decay rate enhancement near a carbon nanotube. *Carbon*, **2004**, 42, 997-1000	10.4	1
168	Carbon nanoarchitectures containing non-hexagonal rings: necklaces of pearls. *Carbon*, **2004**, 42, 2561-2566	10.4	21
167	Study of the packing of double-walled carbon nanotubes into bundles by transmission electron microscopy and electron diffraction. *Journal of Materials Chemistry*, **2004**, 14, 603		24
166	Comparison of the sound attenuation efficiency of locally resonant materials and elastic band-gap structures. *Physical Review B*, **2004**, 70,	3.3	34
165	Resonant Raman Intensity of the Radial Breathing Mode of Single-Walled Carbon Nanotubes within a Nonorthogonal Tight-Binding Model. *Nano Letters*, **2004**, 4, 1795-1799	11.5	61
164	Carbon nanotube Y junctions: growth and properties. *Diamond and Related Materials*, **2004**, 13, 241-249	3.5	60
163	Bundles of identical double-walled carbon nanotubes. *Chemical Communications*, **2004**, 2592-3	5.8	13
162	Interpretation of electron diffraction from carbon nanotube bundles presenting precise helicity. *Physical Review B*, **2004**, 70,	3.3	18
161	Spontaneous-decay dynamics in atomically doped carbon nanotubes. *Physical Review B*, **2004**, 70,	3.3	41
160	Scanning tunnelling microscopy of carbon nanotubes. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2004**, 362, 2187-203	3	9
159	Nonradiative spontaneous decay of an excited atom near a carbon nanotube **2003**, 5219, 129		
158	High-resolution electron-energy-loss spectroscopy of surface and interface phonons in multilayered materials. *Progress in Surface Science*, **2003**, 74, 319-329	6.6	4
157	The dielectric theory of HREELS, a short survey. *Journal of Electron Spectroscopy and Related Phenomena*, **2003**, 129, 281-292	1.7	13
156	Electronic structure of carbon nanotubes. *Comptes Rendus Physique*, **2003**, 4, 1009-1019	1.4	20
155	Rings of Double-Walled Carbon Nanotube Bundles. *Nano Letters*, **2003**, 3, 685-689	11.5	64
154	Structural and electronic properties of coiled and curled carbon nanotubes having a large number of pentagon-heptagon pairs. *Physical Review B*, **2003**, 67,	3.3	28

153	Structural properties of Haeckelite nanotubes. *New Journal of Physics*, **2003**, 5, 141-141	2.9	16
152	Transfer-matrix simulations of field emission from bundles of open and closed (5,5) carbon nanotubes. *Physical Review B*, **2003**, 68,	3.3	35
151	Measurements and calculations of the sound attenuation by a phononic band gap structure suitable for an insulating partition application. *Applied Physics Letters*, **2003**, 83, 281-283	3.4	41
150	Simulation of STM Images and STS Spectra of Carbon Nanotubes **2002**, 17-33		
149	STM study of a grain boundary in graphite. *Surface Science*, **2002**, 511, 319-322	1.8	140
148	Quantum-mechanical simulations of field emission from carbon nanotubes. *Carbon*, **2002**, 40, 429-436	10.4	5
147	Structure of carbon nanotubes probed by local and global probes. *Carbon*, **2002**, 40, 1635-1648	10.4	54
146	Theory of acoustic scattering by supported ridges at a solid-liquid interface. *Physical Review E*, **2002** , 65, 036601	2.4	
145	Coiled carbon nanotube structures with supraunitary nonhexagonal to hexagonal ring ratio. *Physical Review B*, **2002**, 66,	3.3	53
144	Phononic crystal with low filling fraction and absolute acoustic band gap in the audible frequency range: a theoretical and experimental study. *Physical Review E*, **2002**, 65, 056608	2.4	125
143	Evidence of fano-like interference phenomena in locally resonant materials. *Physical Review Letters*, **2002**, 88, 225502	7.4	268
142	Structure and properties of carbon onion layers deposited onto various substrates. *Journal of Applied Physics*, **2002**, 91, 1560-1567	2.5	62
141	Optical simulations of electron diffraction by carbon nanotubes. *Reviews of Modern Physics*, **2002**, 74, 1-10	40.5	59
140	Calculation of the charge spreading along a carbon nanotube seen in scanning tunnelling microscopy (STM). *Diamond and Related Materials*, **2002**, 11, 961-963	3.5	3
139	Modeling and Interpretation of STM Images of Carbon Nanosystems **2002**, 43-58		2
138	. *European Physical Journal B*, **2002**, 27, 111-118	1.2	19
137	Surface shear horizontal waves associated with a periodic array of wires deposited on a substrate. *European Physical Journal B*, **2001**, 21, 437-445	1.2	4
136	Excitation of plasmons of anisotropic nanostructures by nearby electrons. *Journal of Electron Spectroscopy and Related Phenomena*, **2001**, 114-116, 219-224	1.7	5

135	Electron Spectroscopy Studies of Carbon Nanotubes **2001**, 247-272		7
134	Stopping of acoustic waves by sonic polymer-fluid composites. *Physical Review E*, **2001**, 63, 066605	2.4	65
133	Electron diffraction study of small bundles of single-wall carbon nanotubes with unique helicity. *Physical Review B*, **2001**, 64,	3.3	31
132	Structural and Electronic Properties of Carbon Nanotube Junctions **2001**, 265-274		
131	Diffraction By Molecular Helices **2001**, 197-204		1
130	Optical Properties of the Carbon Onions **2001**, 273-284		2
129	Measuring the helicity of carbon nanotubes. *Carbon*, **2000**, 38, 1713-1721	10.4	37
128	Scanning tunneling microscopy and spectroscopy of topological defects in carbon nanotubes. *Carbon*, **2000**, 38, 1729-1733	10.4	46
127	Optical transmittance spectroscopy of concentric-shell fullerenes layers produced by carbon ion implantation. *European Physical Journal B*, **2000**, 18, 535-540	1.2	12
126	Scanning tunneling microscopy observation of tightly wound, single-wall coiled carbon nanotubes. *Europhysics Letters*, **2000**, 50, 494-500	1.6	32
125	Atomic structure of carbon nanotubes from scanning tunneling microscopy. *Physical Review B*, **2000** , 61, 2991-2996	3.3	144
124	Electronic structure of polychiral carbon nanotubes. *Physical Review B*, **2000**, 62, 5129-5135	3.3	66
123	Simulation of scanning tunneling spectroscopy of supported carbon nanotubes. *Physical Review B*, **2000**, 62, 2797-2805	3.3	20
122	Scanning tunneling spectroscopy signature of finite-size and connected nanotubes: A tight-binding study. *Physical Review B*, **1999**, 60, 7792-7795	3.3	56
121	Electron-energy-loss spectroscopy of plasmon excitations in concentric-shell fullerenes. *Physical Review B*, **1999**, 59, 5832-5836	3.3	28
120	Revealing the Backbone Structure of B-DNA from Laser Optical Simulations of Its X-ray Diffraction Diagram. *Journal of Chemical Education*, **1999**, 76, 378	2.4	19
119	Elastic deformation of a carbon nanotube adsorbed on a stepped surface. *Carbon*, **1998**, 36, 701-704	10.4	6
118	Scanning tunnelling microscopy (STM) imaging of carbon nanotubes. *Carbon*, **1998**, 36, 689-696	10.4	48

117	Electronic structure of carbon nanotubes with chiral symmetry. *Physical Review B*, **1998**, 57, R15037-R15039	3.3	131
116	Energetics of bent carbon nanotubes. *Physical Review B*, **1998**, 57, 2586-2591	3.3	56
115	Atomic and electronic structures of large and small carbon tori. *Physical Review B*, **1998**, 57, 14886-14890	3.3	74
114	Influence of tunneling voltage on the imaging of carbon nanotube rafts by scanning tunneling microscopy. *Applied Physics Letters*, **1998**, 73, 3680-3682	3.4	10
113	Tight-Binding Computation of the STM Image of Carbon Nanotubes. *Physical Review Letters*, **1998**, 81, 5588-5591	7.4	110
112	Electronic properties of nanotube junctions **1998**,		1
111	Scanning tunneling microscope investigation of carbon nanotubes produced by catalytic decomposition of acetylene. *Physical Review B*, **1997**, 56, 12490-12498	3.3	46
110	Quantitative theory of diffraction by carbon nanotubes. *Physical Review B*, **1997**, 56, 3571-3574	3.3	76
109	Carbon Onions as Possible Carriers of the 2175 A Interstellar Absorption Bump. *Astrophysical Journal*, **1997**, 487, 719-727	4.7	41
108	Electronic properties of carbon nanotubes containing defects. *Journal of Physics and Chemistry of Solids*, **1997**, 58, 1833-1837	3.9	24
107	Surface relaxation and surface dynamics of (001) slabs. *Journal of Physics Condensed Matter*, **1996**, 8, 10195-10207	1.8	
106	Quantum chemical evaluation of the knee angle in the (5,5) - (9,0) coiled carbon tubule. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1996**, 29, 4915-4924	1.3	7
105	Calculation of the energy loss for an electron passing near giant fullerenes. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1996**, 29, 5127-5141	1.3	69
104	Dielectric model for giant fullerenes. *Synthetic Metals*, **1996**, 77, 27-30	3.6	8
103	Growth mechanism of coiled carbon nanotubes. *Synthetic Metals*, **1996**, 77, 235-242	3.6	43
102	Atomic structure and electronic properties of a bent carbon nanotube. *Synthetic Metals*, **1996**, 77, 249-252	3.6	21
101	Structural and electronic properties of pentagon-heptagon pair defects in carbon nanotubes. *Physical Review B*, **1996**, 53, 11108-11113	3.3	316
100	Calculating the diffraction of electrons or X-rays by carbon nanotubes. *Europhysics Letters*, **1996**, 35, 355-360	1.6	46

99	MODEL STRUCTURE OF PERFECTLY GRAPHITIZABLE COILED CARBON NANOTUBES **1996**, 87-103		1
98	Ultra-thin AlAs films on GaAs (001) investigated by high-resolution electron-energy-loss spectroscopy. *Applied Surface Science*, **1996**, 104-105, 601-607	6.7	
97	Adsorption of C60 molecules. *Physical Review B*, **1996**, 53, 1622-1629	3.3	80
96	On the Ultraviolet Spectrum of Multishell Fullerenes and Its Role as Possible Component of Interstellar Dust. *Fullerenes, Nanotubes, and Carbon Nanostructures*, **1996**, 4, 131-165		12
95	Plasmons on spherical carbon shells. *Nuclear Instruments & Methods in Physics Research B*, **1995**, 96, 470-477	1.7	9
94	Standing-Wave Optical Phonons Confined in Ultrathin Overlayers of Ionic Materials. *Physical Review Letters*, **1995**, 74, 570-573	7.4	19
93	Born effective charges of barium titanate: Band-by-band decomposition and sensitivity to structural features. *Physical Review B*, **1995**, 51, 6765-6768	3.3	159
92	Electronic transitions and excitations in solid C70 studied by EELS and XPS C 1s satellite structures. *Physical Review B*, **1995**, 51, 7179-7185	3.3	24
91	Polarization of C60 by the surface electric field of GeS(001). *Surface Science*, **1995**, 329, 199-205	1.8	23
90	Influence of interfacial disorder on the electron-energy loss spectrum of ultra-thin AlAs films on GaAs (001). *Surface Science*, **1995**, 328, L566-L570	1.8	2
89	Model structure of perfectly graphitizable coiled carbon nanotubes. *Carbon*, **1995**, 33, 1759-1775	10.4	72
88	Structural and electronic properties of bent carbon nanotubes. *Chemical Physics Letters*, **1995**, 245, 85-89	2.5	181
87	Formation of the reactive interface AlSb/Sb(111) investigated by high-resolution electron-energy-loss spectroscopy. *Physical Review B*, **1994**, 49, 8054-8058	3.3	
86	The study of carbon nanotubules produced by catalytic method. *Chemical Physics Letters*, **1994**, 223, 329-335	2.5	400
85	Dielectric response of long-wavelength surface optical phonons of YBa2Cu3O7. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 1173-1174	1.3	1
84	Phonon structure of thin films of the YBaCuO compound. *Applied Superconductivity*, **1994**, 2, 135-141		5
83	Computation of the ultraviolet absorption and electron inelastic scattering cross section of multishell fullerenes. *Physical Review B*, **1994**, 49, 2888-2896	3.3	111
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