Philippe Lambin

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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	Tailoring the atomic structure of graphene nanoribbons by scanning tunnelling microscope lithography. *Nature Nanotechnology*, **2008**, 3, 397-401	28.7	779
277	The study of carbon nanotubules produced by catalytic method. *Chemical Physics Letters*, **1994**, 223, 329-335	2.5	400
276	Structural and electronic properties of pentagon-heptagon pair defects in carbon nanotubes. *Physical Review B*, **1996**, 53, 11108-11113	3.3	316
275	Characterization of tin oxides by x-ray-photoemission spectroscopy. *Physical Review B*, **1992**, 46, 2460-2466	3.3	295
274	High-resolution electron-energy-loss spectroscopy of thin films of C60 on Si(100). *Physical Review Letters*, **1991**, 67, 2171-2174	7.4	273
273	Evidence of fano-like interference phenomena in locally resonant materials. *Physical Review Letters*, **2002**, 88, 225502	7.4	268
272	The Texture of Catalytically Grown Coil-Shaped Carbon Nanotubules. *Europhysics Letters*, **1994**, 27, 141-146	1.6	205
271	Structural and electronic properties of bent carbon nanotubes. *Chemical Physics Letters*, **1995**, 245, 85-89	2.5	181
270	Tuning the electronic structure of graphene by ion irradiation. *Physical Review B*, **2008**, 78,	3.3	179
269	Electron-energy-loss spectroscopy of multilayered materials: Theoretical aspects and study of interface optical phonons in semiconductor superlattices. *Physical Review B*, **1985**, 32, 8203-8215	3.3	161
268	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
267	Scanning tunneling microscopy fingerprints of point defects in graphene: A theoretical prediction. *Physical Review B*, **2007**, 76,	3.3	146
266	Atomic structure of carbon nanotubes from scanning tunneling microscopy. *Physical Review B*, **2000** , 61, 2991-2996	3.3	144
265	STM study of a grain boundary in graphite. *Surface Science*, **2002**, 511, 319-322	1.8	140
264	Electronic structure of carbon nanotubes with chiral symmetry. *Physical Review B*, **1998**, 57, R15037-R15039	3.3	131
263	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
262	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

261	Computation of the ultraviolet absorption and electron inelastic scattering cross section of multishell fullerenes. *Physical Review B*, **1994**, 49, 2888-2896	3.3	111
260	Tight-Binding Computation of the STM Image of Carbon Nanotubes. *Physical Review Letters*, **1998**, 81, 5588-5591	7.4	110
259	Polarization waves and van der Waals cohesion of C60 fullerite. *Physical Review B*, **1992**, 46, 1794-1803	3.3	105
258	Grain boundaries in graphene grown by chemical vapor deposition. *New Journal of Physics*, **2013**, 15, 035024	2.9	103
257	Flexible transparent graphene/polymer multilayers for efficient electromagnetic field absorption. *Scientific Reports*, **2014**, 4, 7191	4.9	102
256	Electronic transport properties of carbon nanotube based metal/semiconductor/metal intramolecular junctions. *Nanotechnology*, **2005**, 16, 230-3	3.4	101
255	Computation of crystal Green's functions in the complex-energy plane with the use of the analytical tetrahedron method. *Physical Review B*, **1984**, 29, 3430-3437	3.3	99
254	Graphene: nanoscale processing and recent applications. *Nanoscale*, **2012**, 4, 1824-39	7.7	98
253	Elementary excitations of C60 from the far infrared to the far vacuum ultraviolet studied by high-resolution electron-energy-loss spectroscopy. *Physical Review B*, **1992**, 45, 13694-13702	3.3	91
252	Observation of long-wavelength interface phonons in a GaAs/AlGaAs superlattice. *Physical Review Letters*, **1986**, 56, 1842-1845	7.4	89
251	On the energetics of tubular fullerenes. *Journal of Physics and Chemistry of Solids*, **1993**, 54, 587-593	3.9	87
250	Scattering-theoretic approach to elastic one-electron tunneling through localized barriers: Application to scanning tunneling microscopy. *Physical Review B*, **1988**, 37, 10708-10720	3.3	84
249	Long-range interactions between substitutional nitrogen dopants in graphene: Electronic properties calculations. *Physical Review B*, **2012**, 86,	3.3	83
248	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
247	Adsorption of C60 molecules. *Physical Review B*, **1996**, 53, 1622-1629	3.3	80
246	Computation of the surface electron-energy-loss spectrum in specular geometry for an arbitrary plane-stratified medium. *Computer Physics Communications*, **1990**, 60, 351-364	4.2	80
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244	Quantitative theory of diffraction by carbon nanotubes. *Physical Review B*, **1997**, 56, 3571-3574	3.3	76

243	Enhanced microwave-to-terahertz absorption in graphene. *Applied Physics Letters*, **2016**, 108, 123101	3.4	75
242	Theoretical study of the vibrational edge modes in graphene nanoribbons. *Physical Review B*, **2008**, 78,	3.3	74
241	Atomic and electronic structures of large and small carbon tori. *Physical Review B*, **1998**, 57, 14886-14890	3.3	74
240	Model structure of perfectly graphitizable coiled carbon nanotubes. *Carbon*, **1995**, 33, 1759-1775	10.4	72
239	Physisorption in confined geometry. *Journal of Chemical Physics*, **1991**, 94, 4620-4627	3.9	72
238	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
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236	Electronic structure of polychiral carbon nanotubes. *Physical Review B*, **2000**, 62, 5129-5135	3.3	66
235	Stopping of acoustic waves by sonic polymer-fluid composites. *Physical Review E*, **2001**, 63, 066605	2.4	65
234	Rings of Double-Walled Carbon Nanotube Bundles. *Nano Letters*, **2003**, 3, 685-689	11.5	64
233	Structure and properties of carbon onion layers deposited onto various substrates. *Journal of Applied Physics*, **2002**, 91, 1560-1567	2.5	62
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231	Nanopatterning of graphene with crystallographic orientation control. *Carbon*, **2010**, 48, 2677-2689	10.4	61
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229	Carbon nanotube Y junctions: growth and properties. *Diamond and Related Materials*, **2004**, 13, 241-249	3.5	60
228	Optical simulations of electron diffraction by carbon nanotubes. *Reviews of Modern Physics*, **2002**, 74, 1-10	40.5	59
227	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
226	Energetics of bent carbon nanotubes. *Physical Review B*, **1998**, 57, 2586-2591	3.3	56

225	Scanning tunneling spectroscopy signature of finite-size and connected nanotubes: A tight-binding study. *Physical Review B*, **1999**, 60, 7792-7795	3.3	56
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183	Terahertz probing of onion-like carbon-PMMA composite films. *Diamond and Related Materials*, **2008**, 17, 1608-1612	3.5	33
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