Philippe Lambin

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293 11,079 3.9 6.02 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
278	Tailoring the atomic structure of graphene nanoribbons by scanning tunnelling microscope lithography. <i>Nature Nanotechnology</i> , 2008 , 3, 397-401	28.7	779
277	The study of carbon nanotubules produced by catalytic method. <i>Chemical Physics Letters</i> , 1994 , 223, 32	923335	400
276	Structural and electronic properties of pentagon-heptagon pair defects in carbon nanotubes. <i>Physical Review B</i> , 1996 , 53, 11108-11113	3.3	316
275	Characterization of tin oxides by x-ray-photoemission spectroscopy. <i>Physical Review B</i> , 1992 , 46, 2460-2	2466	295
274	High-resolution electron-energy-loss spectroscopy of thin films of C60 on Si(100). <i>Physical Review Letters</i> , 1991 , 67, 2171-2174	7.4	273
273	Evidence of fano-like interference phenomena in locally resonant materials. <i>Physical Review Letters</i> , 2002 , 88, 225502	7.4	268
272	The Texture of Catalytically Grown Coil-Shaped Carbon Nanotubules. <i>Europhysics Letters</i> , 1994 , 27, 141	-1:46	205
271	Structural and electronic properties of bent carbon nanotubes. <i>Chemical Physics Letters</i> , 1995 , 245, 85-8	8 9 .5	181
270	Tuning the electronic structure of graphene by ion irradiation. <i>Physical Review B</i> , 2008 , 78,	3.3	179
269	Electron-energy-loss spectroscopy of multilayered materials: Theoretical aspects and study of interface optical phonons in semiconductor superlattices. <i>Physical Review B</i> , 1985 , 32, 8203-8215	3.3	161
268	Born effective charges of barium titanate: Band-by-band decomposition and sensitivity to structural features. <i>Physical Review B</i> , 1995 , 51, 6765-6768	3.3	159
267	Scanning tunneling microscopy fingerprints of point defects in graphene: A theoretical prediction. <i>Physical Review B</i> , 2007 , 76,	3.3	146
266	Atomic structure of carbon nanotubes from scanning tunneling microscopy. <i>Physical Review B</i> , 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. <i>Physical Review B</i> , 1998 , 57, R15037-R1	593,9	131
263	Phononic crystal with low filling fraction and absolute acoustic band gap in the audible frequency range: a theoretical and experimental study. <i>Physical Review E</i> , 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. <i>Physical Review B</i> , 2006 , 73,	3.3	117

261	Computation of the ultraviolet absorption and electron inelastic scattering cross section of multishell fullerenes. <i>Physical Review B</i> , 1994 , 49, 2888-2896	3.3	111
260	Tight-Binding Computation of the STM Image of Carbon Nanotubes. <i>Physical Review Letters</i> , 1998 , 81, 5588-5591	7.4	110
259	Polarization waves and van der Waals cohesion of C60 fullerite. <i>Physical Review B</i> , 1992 , 46, 1794-1803	3.3	105
258	Grain boundaries in graphene grown by chemical vapor deposition. <i>New Journal of Physics</i> , 2013 , 15, 035024	2.9	103
257	Flexible transparent graphene/polymer multilayers for efficient electromagnetic field absorption. <i>Scientific Reports</i> , 2014 , 4, 7191	4.9	102
256	Electronic transport properties of carbon nanotube based metal/semiconductor/metal intramolecular junctions. <i>Nanotechnology</i> , 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. <i>Physical Review B</i> , 1984 , 29, 3430-3437	3.3	99
254	Graphene: nanoscale processing and recent applications. <i>Nanoscale</i> , 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. <i>Physical Review B</i> , 1992 , 45, 13694-13702	3.3	91
252	Observation of long-wavelength interface phonons in a GaAs/AlGaAs superlattice. <i>Physical Review Letters</i> , 1986 , 56, 1842-1845	7.4	89
251	On the energetics of tubular fullerenes. <i>Journal of Physics and Chemistry of Solids</i> , 1993 , 54, 587-593	3.9	87
250	Scattering-theoretic approach to elastic one-electron tunneling through localized barriers: Application to scanning tunneling microscopy. <i>Physical Review B</i> , 1988 , 37, 10708-10720	3.3	84
249	Long-range interactions between substitutional nitrogen dopants in graphene: Electronic properties calculations. <i>Physical Review B</i> , 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. <i>Physical Review B</i> , 2005 , 72,	3.3	80
247	Adsorption of C60 molecules. <i>Physical Review B</i> , 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. <i>Computer Physics Communications</i> , 1990 , 60, 351-364	4.2	80
245	Tight-binding density of electronic states of pregraphitic carbon. <i>Physical Review B</i> , 1992 , 46, 4540-4543	33.3	78
244	Quantitative theory of diffraction by carbon nanotubes. <i>Physical Review B</i> , 1997 , 56, 3571-3574	3.3	76

243	Enhanced microwave-to-terahertz absorption in graphene. <i>Applied Physics Letters</i> , 2016 , 108, 123101	3.4	75
242	Theoretical study of the vibrational edge modes in graphene nanoribbons. <i>Physical Review B</i> , 2008 , 78,	3.3	74
241	Atomic and electronic structures of large and small carbon tori. <i>Physical Review B</i> , 1998 , 57, 14886-1489	19.3	74
240	Model structure of perfectly graphitizable coiled carbon nanotubes. <i>Carbon</i> , 1995 , 33, 1759-1775	10.4	72
239	Physisorption in confined geometry. <i>Journal of Chemical Physics</i> , 1991 , 94, 4620-4627	3.9	72
238	Calculation of the energy loss for an electron passing near giant fullerenes. <i>Journal of Physics B:</i> Atomic, Molecular and Optical Physics, 1996 , 29, 5127-5141	1.3	69
237	Analysis of the density of states of binary alloys. II. Surface segregation. <i>Journal of Physics F: Metal Physics</i> , 1980 , 10, 2413-2428		68
236	Electronic structure of polychiral carbon nanotubes. <i>Physical Review B</i> , 2000 , 62, 5129-5135	3.3	66
235	Stopping of acoustic waves by sonic polymer-fluid composites. <i>Physical Review E</i> , 2001 , 63, 066605	2.4	65
234	Rings of Double-Walled Carbon Nanotube Bundles. <i>Nano Letters</i> , 2003 , 3, 685-689	11.5	64
233	Structure and properties of carbon onion layers deposited onto various substrates. <i>Journal of Applied Physics</i> , 2002 , 91, 1560-1567	2.5	62
232	Electronic band structure of multilayered carbon tubules. Computational Materials Science, 1994, 2, 350	-3 <u>5</u> 6	62
231	Nanopatterning of graphene with crystallographic orientation control. Carbon, 2010, 48, 2677-2689	10.4	61
230	Resonant Raman Intensity of the Radial Breathing Mode of Single-Walled Carbon Nanotubes within a Nonorthogonal Tight-Binding Model. <i>Nano Letters</i> , 2004 , 4, 1795-1799	11.5	61
229	Carbon nanotube Y junctions: growth and properties. <i>Diamond and Related Materials</i> , 2004 , 13, 241-249	3.5	60
228	Optical simulations of electron diffraction by carbon nanotubes. <i>Reviews of Modern Physics</i> , 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. <i>Journal of Applied Physics</i> , 2013 , 114, 164304	2.5	58
226	Energetics of bent carbon nanotubes. <i>Physical Review B</i> , 1998 , 57, 2586-2591	3.3	56

225	Scanning tunneling spectroscopy signature of finite-size and connected nanotubes: A tight-binding study. <i>Physical Review B</i> , 1999 , 60, 7792-7795	3.3	56
224	van der Waals attraction between two C60 fullerene molecules and physical adsorption of C60 on graphite and other substrates. <i>Physical Review B</i> , 1994 , 49, 11425-11432	3.3	56
223	Theoretical Raman fingerprints of 日日 and 回raphyne. <i>Physical Review B</i> , 2013 , 88,	3.3	55
222	Transmission coefficient for one-dimensional potential barriers using continued fractions. <i>Journal of Physics A</i> , 1980 , 13, 1135-1144		55
221	Structure of carbon nanotubes probed by local and global probes. <i>Carbon</i> , 2002 , 40, 1635-1648	10.4	54
220	Coiled carbon nanotube structures with supraunitary nonhexagonal to hexagonal ring ratio. <i>Physical Review B</i> , 2002 , 66,	3.3	53
219	High resolution electron energy loss spectroscopy of epitaxial films of C60 grown on GaSe. <i>Journal of Physics and Chemistry of Solids</i> , 1992 , 53, 1427-1432	3.9	52
218	Effect of nitrogen doping on the electromagnetic properties of carbon nanotube-based composites. <i>Journal of Applied Physics</i> , 2013 , 113, 144315	2.5	51
217	Polaritons in semiconductor multilayered materials. <i>Physical Review B</i> , 1988 , 38, 5438-5452	3.3	51
216	Cooperative magnetic properties in single- and two-phase 3d metallic alloys relevant to exchange and magnetocrystalline anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 1984 , 44, 1-19	2.8	50
215	Continued-fraction technique for tight-binding systems. A generalized-moments method. <i>Physical Review B</i> , 1982 , 26, 4356-4368	3.3	50
214	Scanning tunnelling microscopy (STM) imaging of carbon nanotubes. <i>Carbon</i> , 1998 , 36, 689-696	10.4	48
213	Attenuation of electromagnetic waves in onion-like carbon composites. <i>Diamond and Related Materials</i> , 2007 , 16, 1231-1235	3.5	47
212	van der Waals coupling in atomically doped carbon nanotubes. <i>Physical Review B</i> , 2005 , 72,	3.3	47
211	Elastic Properties and Stability of Physisorbed Graphene. Applied Sciences (Switzerland), 2014, 4, 282-30	042.6	46
210	Scanning tunneling microscope investigation of carbon nanotubes produced by catalytic decomposition of acetylene. <i>Physical Review B</i> , 1997 , 56, 12490-12498	3.3	46
209	Scanning tunneling microscopy and spectroscopy of topological defects in carbon nanotubes. <i>Carbon</i> , 2000 , 38, 1729-1733	10.4	46
208	Calculating the diffraction of electrons or X-rays by carbon nanotubes. <i>Europhysics Letters</i> , 1996 , 35, 355-360	1.6	46

207	Diffraction by DNA, carbon nanotubes and other helical nanostructures. <i>Reports on Progress in Physics</i> , 2005 , 68, 1181-1249	14.4	44
206	Facile and scalable fabrication of highly thermal conductive polyethylene/graphene nanocomposites by combining solid-state shear milling and FDM 3D-printing aligning methods. <i>Chemical Engineering Journal</i> , 2020 , 402, 126218	14.7	44
205	Growth mechanism of coiled carbon nanotubes. Synthetic Metals, 1996, 77, 235-242	3.6	43
204	The interface formation as studied by electron spectroscopies. <i>Surface Science</i> , 1990 , 235, 5-14	1.8	43
203	Charge-dipole model to compute the polarization of fullerenes. <i>Applied Physics Letters</i> , 2006 , 89, 06311	7 3.4	42
202	Carbon Onions as Possible Carriers of the 2175 A Interstellar Absorption Bump. <i>Astrophysical Journal</i> , 1997 , 487, 719-727	4.7	41
201	Intraband electron-phonon scattering in single-walled carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	41
200	Measurements and calculations of the sound attenuation by a phononic band gap structure suitable for an insulating partition application. <i>Applied Physics Letters</i> , 2003 , 83, 281-283	3.4	41
199	Spontaneous-decay dynamics in atomically doped carbon nanotubes. <i>Physical Review B</i> , 2004 , 70,	3.3	41
198	Main principles of passive devices based on graphene and carbon films in microwaveIIHz frequency range. <i>Journal of Nanophotonics</i> , 2017 , 11, 032504	1.1	40
197	Catalytically assisted tip growth mechanism for single-wall carbon nanotubes. ACS Nano, 2007, 1, 202-7	16.7	40
196	Validity of the dielectric approximation in describing electron-energy-loss spectra of surface and interface phonons in thin films of ionic crystals. <i>Physical Review B</i> , 1991 , 44, 6416-6428	3.3	40
195	Electromagnetic properties of graphene nanoplatelets/epoxy composites. <i>Composites Science and Technology</i> , 2016 , 128, 75-83	8.6	40
194	Resonant Raman intensity of the totally symmetric phonons of single-walled carbon nanotubes. <i>Physical Review B</i> , 2006 , 73,	3.3	39
193	On the 2175 A absorption band of hollow, onion-like carbon particles. <i>Astrophysical Journal</i> , 1993 , 406, 92	4.7	39
192	Simulation of current in the scanning tunneling microscope. <i>Physical Review B</i> , 1993 , 47, 7508-7518	3.3	38
191	Theory of near-field optics with applications to SNOM and optical binding. <i>Physica B: Condensed Matter</i> , 1991 , 175, 65-67	2.8	38
190	Computation of the static polarizabilities of multi-wall carbon nanotubes and fullerites using a Gaussian regularized point dipole interaction model. <i>Carbon</i> , 2006 , 44, 2883-2895	10.4	37

189	Measuring the helicity of carbon nanotubes. Carbon, 2000, 38, 1713-1721	10.4	37
188	Transfer-matrix simulations of field emission from bundles of open and closed (5,5) carbon nanotubes. <i>Physical Review B</i> , 2003 , 68,	3.3	35
187	Electromagnetic shielding properties of MWCNT/PMMA composites in Ka-band. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2662-2666	1.3	34
186	Dipole polarizability of onion-like carbons and electromagnetic properties of their composites. <i>Nanotechnology</i> , 2008 , 19, 115706	3.4	34
185	Comparison of the sound attenuation efficiency of locally resonant materials and elastic band-gap structures. <i>Physical Review B</i> , 2004 , 70,	3.3	34
184	Electronic states of disordered grain boundaries in graphene prepared by chemical vapor deposition. <i>Carbon</i> , 2013 , 64, 178-186	10.4	33
183	Terahertz probing of onion-like carbon-PMMA composite films. <i>Diamond and Related Materials</i> , 2008 , 17, 1608-1612	3.5	33
182	Scanning tunneling microscopy observation of tightly wound, single-wall coiled carbon nanotubes. <i>Europhysics Letters</i> , 2000 , 50, 494-500	1.6	32
181	Structural origin of coiling in coiled carbon nanotubes. <i>Carbon</i> , 2005 , 43, 1628-1633	10.4	31
180	Electron diffraction study of small bundles of single-wall carbon nanotubes with unique helicity. <i>Physical Review B</i> , 2001 , 64,	3.3	31
179	Resonant Raman spectra of graphene with point defects. <i>Carbon</i> , 2009 , 47, 2448-2455	10.4	30
178	Improved continued fraction treatment of the one-dimensional scattering problem. <i>Journal of Physics A</i> , 1981 , 14, 1815-1819		30
177	Controllable electromagnetic response of onion-like carbon based materials. <i>Physica Status Solidi</i> (B): Basic Research, 2008 , 245, 2051-2054	1.3	28
176	Structural and electronic properties of coiled and curled carbon nanotubes having a large number of pentagon Beptagon pairs. <i>Physical Review B</i> , 2003 , 67,	3.3	28
175	Electron-energy-loss spectroscopy of plasmon excitations in concentric-shell fullerenes. <i>Physical Review B</i> , 1999 , 59, 5832-5836	3.3	28
174	Theory of electron energy loss spectroscopy at the surface of a planar stratified medium, application to semiconductor superlattices. <i>Solid State Communications</i> , 1985 , 54, 257-260	1.6	28
173	Perfect electromagnetic absorption using graphene and epsilon-near-zero metamaterials. <i>Physical Review B</i> , 2016 , 93,	3.3	27
172	Electronic transport through ordered and disordered graphene grain boundaries. <i>Carbon</i> , 2013 , 64, 101	-1 0 04	27

171	Theoretical Raman intensity of the G and 2D bands of strained graphene. Carbon, 2013, 54, 86-93	10.4	27
170	Crystallographically oriented high resolution lithography of graphene nanoribbons by STM lithography. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 896-902	1.3	25
169	Infrared optical constants of orthorhombic IV-VI lamellar semiconductors refined by a combined study using optical and electronic spectroscopies. <i>Physical Review B</i> , 1993 , 47, 16222-16228	3.3	25
168	Electronic properties of carbon nanotubes containing defects. <i>Journal of Physics and Chemistry of Solids</i> , 1997 , 58, 1833-1837	3.9	24
167	Study of the packing of double-walled carbon nanotubes into bundles by transmission electron microscopy and electron diffraction. <i>Journal of Materials Chemistry</i> , 2004 , 14, 603		24
166	Electronic transitions and excitations in solid C70 studied by EELS and XPS C 1s satellite structures. <i>Physical Review B</i> , 1995 , 51, 7179-7185	3.3	24
165	Robust electromagnetic absorption by graphene/polymer heterostructures. <i>Nanotechnology</i> , 2015 , 26, 285702	3.4	23
164	Dielectric properties of a novel high absorbing onion-like-carbon based polymer composite. Diamond and Related Materials, 2010 , 19, 91-99	3.5	23
163	Polarization of C60 by the surface electric field of GeS(001). Surface Science, 1995, 329, 199-205	1.8	23
162	Phonon surface loss function of ionic-crystal films: A comparison between microscopic and macroscopic approaches. <i>Surface Science</i> , 1990 , 226, 307-321	1.8	23
161	Nano-scaled onion-like carbon: Prospective material for microwave coatings. <i>Metamaterials</i> , 2009 , 3, 148-156		22
160	Characterization of single-walled carbon nanotubes containing defects from their local vibrational densities of states. <i>Carbon</i> , 2007 , 45, 349-356	10.4	22
159	Electronic and magnetic structure of idealized metallic multilayers: Ni3Fe-FeMn system. <i>Physical Review B</i> , 1984 , 30, 6903-6910	3.3	22
158	Carbon nanoarchitectures containing non-hexagonal rings: Becklaces of pearls (Carbon, 2004, 42, 2561-	2 <u>566</u>	21
157	Atomic structure and electronic properties of a bent carbon nanotube. Synthetic Metals, 1996, 77, 249-7	2526	21
156	van der Waals interaction at a material wedge. <i>Journal of Chemical Physics</i> , 1989 , 90, 3814-3822	3.9	21
155	Electronic structure of carbon nanotubes. <i>Comptes Rendus Physique</i> , 2003 , 4, 1009-1019	1.4	20
154	Simulation of scanning tunneling spectroscopy of supported carbon nanotubes. <i>Physical Review B</i> , 2000 , 62, 2797-2805	3.3	20

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153	Calculation of the electrostatic forces that act on carbon nanotubes placed in the vicinity of metallic protrusions. <i>Nanotechnology</i> , 2005 , 16, 2685-2695	3.4	19	
152	van der Waals energy under strong atom fi eld coupling in doped carbon nanotubes. <i>Solid State Communications</i> , 2004 , 132, 203-207	1.6	19	
151	Revealing the Backbone Structure of B-DNA from Laser Optical Simulations of Its X-ray Diffraction Diagram. <i>Journal of Chemical Education</i> , 1999 , 76, 378	2.4	19	
150	Standing-Wave Optical Phonons Confined in Ultrathin Overlayers of Ionic Materials. <i>Physical Review Letters</i> , 1995 , 74, 570-573	7.4	19	
149	Band structure of YBa2Cu3Ox in relation with the oxygen vacancy distribution. <i>Solid State Communications</i> , 1987 , 64, 313-316	1.6	19	
148	. European Physical Journal B, 2002 , 27, 111-118	1.2	19	
147	Modeling the electrical properties of three-dimensional printed meshes with the theory of resistor lattices. <i>Physical Review E</i> , 2018 , 97, 043307	2.4	18	
146	Revealing the innermost nanostructure of sputtered NiCrOx solar absorber cermets. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 122, 303-308	6.4	18	
145	Theoretical 2D Raman band of strained graphene. <i>Physical Review B</i> , 2013 , 87,	3.3	18	
144	Anisotropic dynamics of charge carriers in graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	18	
143	An electrostatic interaction model for frequency-dependent polarizability: methodology and applications to hydrocarbons and fullerenes. <i>Nanotechnology</i> , 2008 , 19, 025203	3.4	18	
142	Interpretation of electron diffraction from carbon nanotube bundles presenting precise helicity. <i>Physical Review B</i> , 2004 , 70,	3.3	18	
141	Electrodynamics of a Plane-Stratified Medium, with Applications to Electron-Energy-Loss Spectroscopy, Infrared Reflectivity Measurement and Attenuated Total Reflection. <i>Physica Scripta</i> , 1987 , 35, 343-353	2.6	18	
140	Effect of the disorder in graphene grain boundaries: A wave packet dynamics study. <i>Applied Surface Science</i> , 2014 , 291, 58-63	6.7	17	
139	Study of the polarizability of fullerenes with a monopoledipole interaction model. <i>Diamond and Related Materials</i> , 2007 , 16, 2145-2149	3.5	17	
138	Lateral resolution of the scanning tunnelling microscope. <i>Journal of Microscopy</i> , 1988 , 152, 53-63	1.9	17	
137	Bilayered graphene as a platform of nanostructures with folded edge holes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27432-27441	3.6	17	
136	Structural properties of Haeckelite nanotubes. <i>New Journal of Physics</i> , 2003 , 5, 141-141	2.9	16	

135	Theory of electron energy loss spectroscopy of a plane-stratified medium with an application to the study of interface optical phonons in GaSb-Alsb superlattices. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1986 , 39, 59-68	1.7	16	
134	Surface and interface optical phonons of a GaAsAlGaAs superlattice measured by high resolution electron energy loss spectroscopy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1986 , 4, 1028		16	
133	Synthesis parameters affecting the bulk composition and superconducting properties of YBaCuO-based compounds. <i>Solid State Communications</i> , 1987 , 64, 1137-1140	1.6	15	
132	Recent Advances in Electron Energy Loss Spectroscopy of Surface and Interface Vibrations of Layered Materials. <i>Physica Scripta</i> , 1986 , T13, 150-154	2.6	15	
131	Theoretical polarization dependence of the two-phonon double-resonant Raman spectra of graphene. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	14	
130	Onion-like carbon based polymer composite films in microwaves. <i>Solid State Sciences</i> , 2009 , 11, 1762-1	76,74	14	
129	Electron scattering in a multiwall carbon nanotube bend junction studied by scanning tunneling microscopy. <i>Physical Review B</i> , 2006 , 74,	3.3	14	
128	Vacuum-field Rabi oscillations in atomically doped carbon nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004 , 328, 235-240	2.3	14	
127	On the role of the image force in the electron-energy-loss spectrum of a dielectric target. <i>Surface Science</i> , 1987 , 182, 567-575	1.8	14	
126	Tunneling through localized barriers with application to scanning tunneling microscopy: New scattering theoretic approach and results. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films,</i> 1988 , 6, 296-299	2.9	14	
125	Confinement in molecular sieves: The pioneering physical concepts. <i>Journal of Molecular Catalysis A</i> , 2009 , 305, 16-23		13	
124	Bundles of identical double-walled carbon nanotubes. <i>Chemical Communications</i> , 2004 , 2592-3	5.8	13	
123	The dielectric theory of HREELS, a short survey. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2003 , 129, 281-292	1.7	13	
122	Use of specific functionalised tips with STM: a new identification method of ester groups and their molecular structure in self-assembled overlayers. <i>Chemistry - A European Journal</i> , 2005 , 11, 4185-90	4.8	13	
121	Oxygen stoichiometry of YBa2Cu3O6.5+x superconducting phase formed and stabilized under various atmospheres: A TG - DTA - DTG study. <i>Solid State Communications</i> , 1987 , 64, 1221-1224	1.6	13	
120	Optical transmittance spectroscopy of concentric-shell fullerenes layers produced by carbon ion implantation. <i>European Physical Journal B</i> , 2000 , 18, 535-540	1.2	12	
119	On the Ultraviolet Spectrum of Multishell Fullerenes and Its Role as Possible Component of Interstellar Dust. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1996 , 4, 131-165		12	
118	Dynamic and charge doping effects on the phonon dispersion of graphene. <i>Physical Review B</i> , 2010 , 82,	3.3	11	

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117	Calculation of axial charge spreading in carbon nanotubes and nanotube Y junctions during STM measurement. <i>Physical Review B</i> , 2004 , 70,	3.3	11
116	Polariton Structure and Spectral Reflectance of Multilayered Semiconducting Materials. <i>Physica Scripta</i> , 1987 , 35, 338-342	2.6	11
115	Onion-like-carbon-based composite films: Theoretical modeling of electromagnetic response. <i>Solid State Sciences</i> , 2009 , 11, 1752-1756	3.4	10
114	Theoretical resonant Raman spectra of nanotube (7,0) with point defects. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2602-2605	1.3	10
113	Influence of tunneling voltage on the imaging of carbon nanotube rafts by scanning tunneling microscopy. <i>Applied Physics Letters</i> , 1998 , 73, 3680-3682	3.4	10
112	Infrared response of silicon oxynitrides investigated by high-resolution electron-energy-loss spectroscopy. <i>Physical Review B</i> , 1993 , 48, 8701-8708	3.3	10
111	Ewald summation of multipolar interactions at an arbitrary order on a two-dimensional lattice. <i>International Journal of Quantum Chemistry</i> , 1993 , 46, 101-107	2.1	10
110	Relationship between oxygen stoichiometry and crystal structure in YBa2Cu3O6.5+x precursors to high-Tc superconducting materials. <i>Solid State Communications</i> , 1987 , 64, 1061-1068	1.6	10
109	Radiative and non-radiative polariton structure of superlattices. <i>Physica Scripta</i> , 1988 , 38, 462-467	2.6	10
108	Onion-Like Carbon in Microwaves: Electromagnetic Absorption Bands and Percolation Effect. Journal of Nanoelectronics and Optoelectronics, 2009 , 4, 257-260	1.3	10
107	Dielectric properties of onion-like carbon based polymer films: Experiment and modeling. <i>Solid State Sciences</i> , 2009 , 11, 1828-1832	3.4	9
106	Scanning tunnelling microscopy of carbon nanotubes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 2187-203	3	9
105	Plasmons on spherical carbon shells. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995 , 96, 470-	-4727	9
104	Computation of scanning tunneling microscope images. <i>International Journal of Quantum Chemistry</i> , 1991 , 40, 687-702	2.1	9
103	Complete calculation of the electric potential produced by a pair of current source and sink energizing a circular finite-length cylinder. <i>Journal of Applied Physics</i> , 1983 , 54, 4174-4184	2.5	9
102	Electronic theory of surface segregation in CuNi alloys. <i>Solid State Communications</i> , 1978 , 28, 123-125	1.6	9
101	Modified Brewster angle on conducting 2D materials. 2D Materials, 2018, 5, 025007	5.9	8
100	Dielectric model for giant fullerenes. Synthetic Metals, 1996 , 77, 27-30	3.6	8

99	Theoretical aspects of scanning tunneling microscopy. Surface Science, 1992, 269-270, 74-80	1.8	8
98	Structural, vibrational and electronic properties of C60 thin films investigated by high resolution electron energy loss spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1993 , 64-65, 835-842	1.7	8
97	On the Contribution of Edge Phonons to the Electron-Energy-Loss Spectrum of LiF(001) Surface. <i>Europhysics Letters</i> , 1986 , 2, 409-414	1.6	8
96	Long-range resonant effects on electronic transport of nitrogen-doped carbon nanotubes. <i>Physical Review B</i> , 2014 , 89,	3.3	7
95	Quantum chemical evaluation of the knee angle in the (5,5) - (9,0) coiled carbon tubule. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996 , 29, 4915-4924	1.3	7
94	Electron Spectroscopy Studies of Carbon Nanotubes 2001 , 247-272		7
93	Electron energy-loss spectroscopy and dynamics of SrTiO3(100). Surface Science, 1993, 287-288, 382-38	5 1.8	7
92	On the homomorphic cluster CPA. <i>Solid State Communications</i> , 1981 , 38, 1139-1141	1.6	7
91	Rponse dilectrique de surface des phonons optiques d'un film de cristal ionique. <i>Journal De Physique, I</i> , 1993 , 3, 1417-1429		7
90	Transport regimes in nitrogen-doped carbon nanotubes: Perfect order, semi-random, and random disorder cases. <i>Physical Review B</i> , 2015 , 91,	3.3	6
89	Forming electronic waveguides from graphene grain boundaries. <i>Journal of Nanophotonics</i> , 2012 , 6, 061	17/1:18	6
88	Non-adiabatic phonon dispersion of metallic single-walled carbon nanotubes. <i>Nano Research</i> , 2010 , 3, 822-829	10	6
87	Elastic deformation of a carbon nanotube adsorbed on a stepped surface. <i>Carbon</i> , 1998 , 36, 701-704	10.4	6
86	Symmetry-adapted tight-binding calculations of the totally symmetric A1 phonons of single-walled carbon nanotubes and their resonant Raman intensity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 37, 97-104	3	6
85	Resolution of the one-dimensional scattering problem by a finite element method. <i>Journal of Computational Physics</i> , 1989 , 83, 398-406	4.1	6
84	New scattering-theoretic approach to elastic one-electron tunneling through spatially localized barriers: Application to scanning tunneling microscopy. <i>Solid State Communications</i> , 1988 , 65, 1291-129.	4 ^{1.6}	6
83	Gaussian quadrature of integrands involving the error function. <i>Mathematics of Computation</i> , 1980 , 35, 1299-1299	1.6	6
82	Localized plasmon resonance in boron-doped multiwalled carbon nanotubes. <i>Physical Review B</i> , 2018 , 97,	3.3	6

81	Dielectric properties of MWCNT based polymer composites close and below percolation threshold. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 2814-2816		5
80	Scanning tunneling microscopy observation of circular electronic superstructures on multiwalled carbon nanotubes functionalised by nitric acid. <i>Carbon</i> , 2009 , 47, 764-768	10.4	5
79	Theoretical phonon dispersion of armchair and metallic zigzag carbon nanotubes beyond the adiabatic approximation. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2784-2788	1.3	5
78	Quantum-mechanical simulations of field emission from carbon nanotubes. <i>Carbon</i> , 2002 , 40, 429-436	10.4	5
77	Highlighting functional groups in self-assembled overlayers with specific functionalized scanning tunnelling microscopy tips. <i>Nanotechnology</i> , 2005 , 16, 2596-2600	3.4	5
76	Excitation of plasmons of anisotropic nanostructures by nearby electrons. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001 , 114-116, 219-224	1.7	5
75	Phonon structure of thin films of the YBaCuO compound. <i>Applied Superconductivity</i> , 1994 , 2, 135-141		5
74	Contribution of surface microscopic phonons to the electron energy-loss spectrum of ionic films on an intrinsic semiconductor. <i>Surface Science</i> , 1992 , 269-270, 141-145	1.8	5
73	Theory of electron-energy-loss spectroscopy of surface and interface phonons in a two-medium target with a transverse boundary. <i>Physical Review B</i> , 1987 , 35, 5621-5629	3.3	5
72	Comment on "Are volume plasmons excitable by classical light?". <i>Physical Review Letters</i> , 2010 , 104, 149701; author reply 149702	7.4	4
71	High-resolution electron-energy-loss spectroscopy of surface and interface phonons in multilayered materials. <i>Progress in Surface Science</i> , 2003 , 74, 319-329	6.6	4
70	Surface shear horizontal waves associated with a periodic array of wires deposited on a substrate. <i>European Physical Journal B</i> , 2001 , 21, 437-445	1.2	4
69	Observation of a linear dependence of the frequency splitting between GaAs and AlAs optical surface phonons as a function of Al concentration in AlxGa1-xAs. <i>Physical Review B</i> , 1993 , 48, 4380-4387	,3.3	4
68	Three-dimensional scattering and scanning tunneling microscope images. <i>Ultramicroscopy</i> , 1992 , 42-44, 250-255	3.1	4
67	Numerical determination of surface density of states in one-dimensional model crystals. <i>Physical Review B</i> , 1980 , 22, 549-556	3.3	4
66	Effect of graphene grains size on the microwave electromagnetic shielding effectiveness of graphene/polymer multilayers. <i>Journal of Nanophotonics</i> , 2017 , 11, 032511	1.1	3
65	Electrokinetic Properties of 3D-Printed Conductive Lattice Structures. <i>Applied Sciences</i> (Switzerland), 2019 , 9, 541	2.6	3
64	Nanoscale lithography of graphene with crystallographic orientation control. <i>Physica E:</i> Low-Dimensional Systems and Nanostructures, 2012 , 44, 971-975	3	3

63	Electronic Dynamics in Graphene and MoS2 Systems. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1700179	1.3	3
62	The van der Waals energy of an atom near a carbon nanotube. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2005 , 99, 475	0.7	3
61	Calculation of the charge spreading along a carbon nanotube seen in scanning tunnelling microscopy (STM). <i>Diamond and Related Materials</i> , 2002 , 11, 961-963	3.5	3
60	Electronic properties of structural defects in YBa2Cu3Ox. <i>Physica C: Superconductivity and Its Applications</i> , 1988 , 153-155, 1241-1242	1.3	3
59	Collective polarization waves in high-Tc superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1988 , 153-155, 1313-1314	1.3	3
58	Time and energy dependent dynamics of the STM tip lgraphene system. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	2
57	Graphene as a Prototypical Model for Two-Dimensional Continuous Mechanics. <i>Applied Sciences</i> (Switzerland), 2017 , 7, 830	2.6	2
56	Influence of Humidity on Dielectric Properties of PMMA Nanocomposites Containing Onion-Like Carbon. <i>Ferroelectrics</i> , 2009 , 391, 131-138	0.6	2
55	Wave packet dynamical simulation of electron transport through a line defect on the graphene surface. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 2635-2638	3	2
54	Regularly Curved Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 13, 523-	533 .8	2
53	Influence of interfacial disorder on the electron-energy loss spectrum of ultra-thin AlAs films on GaAs (001). <i>Surface Science</i> , 1995 , 328, L566-L570	1.8	2
52	The use of high resolution electron-energy-loss spectroscopy for refining the infrared optical constants of GaS, GaSe, and InSe. <i>Surface Science</i> , 1994 , 312, 174-180	1.8	2
51	Resolution of Schrdinger's equation for a scattering problem by a finite-element method. <i>International Journal of Quantum Chemistry</i> , 1993 , 45, 637-647	2.1	2
50	Multilayered Structure Of Silicon Oxinitrides And Oxides For Radiative Cooling Devices 1989,		2
49	Experimental foundation of the Gabor-Nelson theory applied to boundaries which are non-insulating. <i>Journal of Theoretical Biology</i> , 1985 , 114, 399-411	2.3	2
48	Dielectric Response of Onion-Like Carbon-Based Polymethyl Methacrylate Composites. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2009 , 4, 261-266	1.3	2
47	Modeling and Interpretation of STM Images of Carbon Nanosystems 2002 , 43-58		2
46	Optical Properties of the Carbon Onions 2001 , 273-284		2

45	Scattering of Dirac Electrons by Randomly Distributed Nitrogen Substitutional Impurities in Graphene. <i>Applied Sciences (Switzerland)</i> , 2016 , 6, 256	2.6	2
44	Wave Packet Dynamical Calculations for Carbon Nanostructures. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2016 , 89-102	0.2	2
43	Thermal and Electromagnetic Properties of Polymer Holey Structures Produced by Additive Manufacturing. <i>Polymers</i> , 2020 , 12,	4.5	1
42	Graphene on epsilon-near-zero metamaterials as perfect electromagnetic absorber 2019 , 169-189		1
41	Carbon onions for electromagnetic applications 2010,		1
40	ELECTRONIC AND VIBRATIONAL POLARIZABILITIES OF BUCKMINSTERFULLERENE. <i>Bulletin Des Soci</i> 园 <i>Chimiques Belges</i> , 2010 , 103, 135-141		1
39	Intermediate frequency Raman spectra of defective single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 892-895	1.3	1
38	Structural Analysis by Elastic Scattering Techniques. <i>Lecture Notes in Physics</i> , 2006 , 131-198	0.8	1
37	Symmetry-adapted tight-binding calculations of the phonon dispersion and the resonant Raman intensity of the totally symmetric phonons of single-walled carbon nanotubes. <i>Physica Status Solidi</i> (B): Basic Research, 2006 , 243, 3480-3484	1.3	1
36	Atomic spontaneous decay rate enhancement near a carbon nanotube. <i>Carbon</i> , 2004 , 42, 997-1000	10.4	1
35	Resonant Raman Intensity Of The Radial-Breathing Mode Of Single-Walled Carbon Nanotubes. <i>AIP Conference Proceedings</i> , 2005 ,	O	1
34	Electronic properties of nanotube junctions 1998 ,		1
33	MODEL STRUCTURE OF PERFECTLY GRAPHITIZABLE COILED CARBON NANOTUBES 1996 , 87-103		1
32	Surface Dielectric Response of Collective Plasmon Excitations in C60 Fullerite. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1993 , 1, 159-175		1
31	Dielectric response of long-wavelength surface optical phonons of YBa2Cu3O7. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 1173-1174	1.3	1
30	Classical and quantum tunneling in microstructures. Superlattices and Microstructures, 1990 , 8, 29-33	2.8	1
29	Phonon-polariton density of states in semiconductor superlattices. <i>Superlattices and Microstructures</i> , 1987 , 3, 547-552	2.8	1
28	Stability of edge magnetism against disorder in zigzag MoS2 nanoribbons. <i>Physical Review Materials</i> , 2019 , 3,	3.2	1

27	On a Generalized-Moments Method. Springer Series in Solid-state Sciences, 1987, 72-83	0.4	1
26	Diffraction By Molecular Helices 2001 , 197-204		1
25	Rpartition du potentiel lectrocintique impose par un diple de courant excentr'dans une plaque conductrice rectangulaire partiellement cloisonne. <i>Revue De Physique Applique</i> , 1985 , 20, 423-43	35	1
24	VIBRATIONAL AND RELATED PROPERTIES OF CARBON NANOTUBES 2006 , 69-88		1
23	ELECTRONIC TRANSPORT IN NANOTUBES AND THROUGH JUNCTIONS OF NANOTUBES 2006 , 123-142		1
22	SCANNING TUNNELING MICROSCOPY AND SPECTROSCOPY OF CARBON NANOTUBES 2006 , 19-42		1
21	Alternative expression of the Bloch wave group velocity in loss-less periodic media using the electromagnetic field energy. <i>Journal of Modern Optics</i> , 2018 , 65, 213-220	1.1	О
20	Electron energy loss spectroscopy of surface and interface phonons of insulators, semiconductors, and superlattices. <i>International Journal of Quantum Chemistry</i> , 2009 , 28, 687-705	2.1	O
19	Surface relaxation and surface dynamics of (001) slabs. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 10195-10207	1.8	
18	Filtering out the transmission of lelectron Fermi states with odd symmetry through a carbon nanotube junction. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 041001	1.8	
17	Vacuum Field Effects in Atomically Doped Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005 , 13, 21-31	1.8	
16	Nonradiative spontaneous decay of an excited atom near a carbon nanotube 2003 , 5219, 129		
15	Theory of Scanning Probe Microscopy of Carbon Nanostructures. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 838, 79		
14	Simulation of STM Images and STS Spectra of Carbon Nanotubes 2002 , 17-33		
13	Theory of acoustic scattering by supported ridges at a solid-liquid interface. <i>Physical Review E</i> , 2002 , 65, 036601	2.4	
12	Ultra-thin AlAs films on GaAs (001) investigated by high-resolution electron-energy-loss spectroscopy. <i>Applied Surface Science</i> , 1996 , 104-105, 601-607	6.7	
11	HIGH RESOLUTION ELECTRON ENERGY LOSS SPECTROSCOPY OF EPITAXIAL FILMS OF C60 GROWN ON GaSe 1993 , 257-262		
10	Formation of the reactive interface AlSb/Sb(111) investigated by high-resolution electron-energy-loss spectroscopy. <i>Physical Review B</i> , 1994 , 49, 8054-8058	3.3	

LIST OF PUBLICATIONS

1

Theory of relaxation of hot electrons and oscillatory photoconductivity in polar semiconductors. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1983, 9 117-118, 247-250 Theory of Electron Energy Loss Spectroscopy of a Plane-Stratified Medium with an Application to the Study of Interface Optical Phonons in GASB-ALSB Superlattices. Studies in Surface Science and 1.8 Catalysis, 1986, 26, 59-68 Theory of Scanning Probe Microscopy 2007, 455-479 7 Structural and Electronic Properties of Carbon Nanotube Junctions 2001, 265-274 Lateral resolution of the scanning tunnelling microscope. The Monthly Microscopical Journal, 1870, 5 3.96-98 Van der Waals Cohesion and Plasmon Excitations in C60 Fullerite. Springer Series in Solid-state 0.4 Sciences, 1993, 507-511 High-Resolution Electron Energy Loss Spectroscopy of Thin C60 Films. Springer Series in Solid-state 0.4 3 Sciences, **1993**, 516-519 The narrowest possible graphene nanoribbon was synthesized fifty years ago. Nanopages, 2012, 7, 25-270

Generalized-moments: Application to solid-state physics. Lecture Notes in Mathematics, 1985, 486-496 0.4