

Ado Jorio

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.

269
papers

36,083
citations

78
h-index

189
g-index

296
ext. papers

39,319
ext. citations

5.5
avg, IF

7.16
L-index

#	Paper	IF	Citations
269	Raman spectra of twisted bilayer graphene close to the magic angle. <i>2D Materials</i> , 2022 , 9, 025007	5.9	3
268	The limits of near field immersion microwave microscopy evaluated by imaging bilayer graphene moiré patterns. <i>Nature Communications</i> , 2021 , 12, 2980	17.4	5
267	Optical Nanoantennas for Tip-Enhanced Raman Spectroscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 27, 1-11	3.8	14
266	Event chronology analysis of the historical development of tip-enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2021 , 52, 587-599	2.3	3
265	Structural and elemental analysis of biochars in the search of a synthetic path to mimetize anthropic Amazon soils. <i>Journal of Environmental Management</i> , 2021 , 279, 111685	7.9	2
264	Nonlinear and vibrational microscopy for label-free characterization of amyloid- β plaques in Alzheimer's disease model. <i>Analyst, The</i> , 2021 , 146, 2945-2954	5	6
263	Micro-Raman spectroscopy of lipid halo and dense-core amyloid plaques: aging process characterization in the Alzheimer's disease APPswePS1E9 mouse model. <i>Analyst, The</i> , 2021 , 146, 6014-6025	5	0
262	Twisted Bilayer Graphene: A Versatile Fabrication Method and the Detection of Variable Nanometric Strain Caused by Twist-Angle Disorder. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1858-1866	5.6	7
261	Localization of lattice dynamics in low-angle twisted bilayer graphene. <i>Nature</i> , 2021 , 590, 405-409	50.4	46
260	Nano-optical Imaging of In-Plane Homojunctions in Graphene and MoS van der Waals Heterostructures on Talc and SiO. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7625-7631	6.4	3
259	Studying 2D materials with advanced Raman spectroscopy: CARS, SRS and TERS. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 23428-23444	3.6	4
258	Raman spectroscopy for carbon nanotube applications. <i>Journal of Applied Physics</i> , 2021 , 129, 021102	2.5	51
257	Properties of carbon particles in archeological and natural Amazon rainforest soils. <i>Catena</i> , 2020 , 194, 104687	5.8	3
256	Optical Properties of Plasmon-Tunable Tip Pyramids for Tip-Enhanced Raman Spectroscopy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 2000212	2.5	11
255	Raman spectroscopy analysis of number of layers in mass-produced graphene flakes. <i>Carbon</i> , 2020 , 161, 181-189	10.4	40
254	Lifetime and polarization for real and virtual correlated Stokes-anti-Stokes Raman scattering in diamond. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
253	Impact of substrate on tip-enhanced Raman spectroscopy: A comparison between field-distribution simulations and graphene measurements. <i>Physical Review Research</i> , 2020 , 2,	3.9	8

252	Observation of moiré superlattices on twisted bilayer graphene by scanning microwave impedance microscopy 2020 ,		2
251	Graphene. <i>Springer Handbooks</i> , 2020 , 1171-1198	1.3	0
250	Temperature-dependent phonon dynamics and anharmonicity of suspended and supported few-layer gallium sulfide. <i>Nanotechnology</i> , 2020 , 31, 495702	3.4	6
249	Few-Wall Carbon Nanotube Coils. <i>Nano Letters</i> , 2020 , 20, 953-962	11.5	7
248	Raman spectroscopy polarization dependence analysis in two-dimensional gallium sulfide. <i>Physical Review B</i> , 2020 , 102,	3.3	8
247	Nanofabrication of plasmon-tunable nanoantennas for tip-enhanced Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2020 , 153, 114201	3.9	5
246	Effective Hamiltonian for Stokes–anti-Stokes pair generation with pump and probe polarized modes. <i>Physical Review B</i> , 2020 , 102,	3.3	1
245	Nanomechanics of few-layer materials: do individual layers slide upon folding?. <i>Beilstein Journal of Nanotechnology</i> , 2020 , 11, 1801-1808	3	3
244	Linkage Between Micro- and Nano-Raman Spectroscopy of Defects in Graphene. <i>Physical Review Applied</i> , 2020 , 14,	4.3	8
243	Probing Spatial Phonon Correlation Length in Post-Transition Metal Monochalcogenide GaS Using Tip-Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2019 , 19, 7357-7364	11.5	19
242	Physical Properties of Photonic Cooper Pairs Generated via Correlated Stokes–anti-Stokes Raman Scattering. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1900218	1.3	2
241	Stokes–anti-Stokes correlated photon properties akin to photonic Cooper pairs. <i>Physical Review B</i> , 2019 , 99,	3.3	3
240	Tip-enhanced Raman Spectroscopy of Graphene 2019 ,		4
239	Tip-Enhanced Spectroscopy and Imaging of Carbon Nanomaterials. <i>World Scientific Series on Carbon Nanoscience</i> , 2019 , 175-221	0.5	3
238	Study of the interaction between light and nanoantennas in Tip-Enhanced Raman Spectroscopy 2019 ,		1
237	A fingerprint of amyloid plaques in a bitransgenic animal model of Alzheimer’s disease obtained by statistical unmixing analysis of hyperspectral Raman data. <i>Analyst, The</i> , 2019 , 144, 7049-7056	5	9
236	Protocol and reference material for measuring the nanoantenna enhancement factor in Tip-enhanced Raman Spectroscopy 2019 ,		2
235	Disorder and Defects in Two-Dimensional Materials Probed by Raman Spectroscopy. <i>Springer Series in Materials Science</i> , 2019 , 99-110	0.9	

234	Mildred S. Dresselhaus (1930-2017). <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 13-18	2.3	2
233	Applications of Raman spectroscopy in graphene-related materials and the development of parameterized PCA for large-scale data analysis. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 54-65	2.3	17
232	Plasmon-Tunable Tip Pyramids: Monopole Nanoantennas for Near-Field Scanning Optical Microscopy. <i>Advanced Optical Materials</i> , 2018 , 6, 1800528	8.1	22
231	Anomalous Nonlinear Optical Response of Graphene Near Phonon Resonances. <i>Nano Letters</i> , 2017 , 17, 3447-3451	11.5	17
230	Disentangling contributions of point and line defects in the Raman spectra of graphene-related materials. <i>2D Materials</i> , 2017 , 4, 025039	5.9	97
229	Inner- and outer-wall sorting of double-walled carbon nanotubes. <i>Nature Nanotechnology</i> , 2017 , 12, 1176-1182	8.1	22
228	Photonic Counterparts of Cooper Pairs. <i>Physical Review Letters</i> , 2017 , 119, 193603	7.4	13
227	Multi-walled carbon nanotubes functionalized with recombinant Dengue virus 3 envelope proteins induce significant and specific immune responses in mice. <i>Journal of Nanobiotechnology</i> , 2017 , 15, 26	9.4	41
226	Symmetry-derived selection rules for plasmon-enhanced Raman scattering. <i>Physical Review B</i> , 2017 , 95,	3.3	26
225	Resonant anti-Stokes Raman scattering in single-walled carbon nanotubes. <i>Physical Review B</i> , 2017 , 96,	3.3	10
224	Relaõ de dispersõ para os plãmon-polãitons de superfãie em uma interface plana metal/dielãtrico. <i>Revista Brasileira De Ensino De Fisica</i> , 2017 , 39,	0.4	1
223	Stokes-anti-Stokes correlation in the inelastic scattering of light by matter and generalization of the Bose-Einstein population function. <i>Physical Review B</i> , 2016 , 93,	3.3	25
222	Vision-based position control applied to probe positioning for Tip Enhanced Raman Spectroscopy 2016 ,		1
221	Defect-Free Carbon Nanotube Coils. <i>Nano Letters</i> , 2016 , 16, 2152-8	11.5	15
220	Depth dependence of black carbon structure, elemental and microbiological composition in anthropic Amazonian dark soil. <i>Soil and Tillage Research</i> , 2016 , 155, 298-307	6.5	16
219	Study of Carbon Nanostructures for Soil Fertility Improvement. <i>Nanomedicine and Nanotoxicology</i> , 2016 , 85-104	0.3	
218	Nanostructured Materials: Metrology 2016 ,		
217	Raman Studies of Carbon Nanostructures. <i>Annual Review of Materials Research</i> , 2016 , 46, 357-382	12.8	72

216	Temporal Quantum Correlations in Inelastic Light Scattering from Water. <i>Physical Review Letters</i> , 2016 , 117, 243603	7.4	13
215	Efficient delivery of DNA into bovine preimplantation embryos by multiwall carbon nanotubes. <i>Scientific Reports</i> , 2016 , 6, 33588	4.9	17
214	Biocompatibility assessment of fibrous nanomaterials in mammalian embryos. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 1151-9	6	8
213	Strain Discontinuity, Avalanche, and Memory in Carbon Nanotube Serpentine Systems. <i>Nano Letters</i> , 2015 , 15, 5899-904	11.5	4
212	Enhanced Mechanical Stability of Gold Nanotips through Carbon Nanocone Encapsulation. <i>Scientific Reports</i> , 2015 , 5, 10408	4.9	13
211	Tuning Localized Surface Plasmon Resonance in Scanning Near-Field Optical Microscopy Probes. <i>ACS Nano</i> , 2015 , 9, 6297-304	16.7	50
210	Stokes-anti-Stokes correlations in diamond. <i>Optics Letters</i> , 2015 , 40, 2393-6	3	23
209	Structural analysis of polycrystalline graphene systems by Raman spectroscopy. <i>Carbon</i> , 2015 , 95, 646-652	12.4	122
208	Stokes and anti-Stokes Raman spectra of the high-energy C-C stretching modes in graphene and diamond. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2380-2384	1.3	13
207	Tip-enhanced Raman mapping of local strain in graphene. <i>Nanotechnology</i> , 2015 , 26, 175702	3.4	53
206	Group theory for structural analysis and lattice vibrations in phosphorene systems. <i>Physical Review B</i> , 2015 , 91,	3.3	71
205	Second Harmonic Generation in WSe ₂ . <i>2D Materials</i> , 2015 , 2, 045015	5.9	66
204	Nanoscale mapping of carbon oxidation in pyrogenic black carbon from ancient Amazonian anthrosols. <i>Environmental Sciences: Processes and Impacts</i> , 2015 , 17, 775-9	4.3	20
203	Quantifying defects in N-layer graphene via a phenomenological model of Raman spectroscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 319, 71-74	1.2	15
202	Optical-phonon resonances with saddle-point excitons in twisted-bilayer graphene. <i>Nano Letters</i> , 2014 , 14, 5687-92	11.5	34
201	Chemical analysis and molecular models for calcium-oxygen-carbon interactions in black carbon found in fertile Amazonian anthrosols. <i>Environmental Science & Technology</i> , 2014 , 48, 7445-52	10.3	44
200	Group theory analysis of phonons in two-dimensional transition metal dichalcogenides. <i>Physical Review B</i> , 2014 , 90,	3.3	130
199	Theory of Spatial Coherence in Near-Field Raman Scattering. <i>Physical Review X</i> , 2014 , 4,	9.1	24

198	Line shape analysis of the Raman spectra from pure and mixed biofuels esters compounds. <i>Fuel</i> , 2014 , 115, 118-125	7.1	40
197	Dopamine signaling regulates fat content through β -oxidation in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2014 , 9, e85874	3.7	15
196	Spatial coherence in near-field Raman scattering. <i>Physical Review Letters</i> , 2014 , 113, 186101	7.4	55
195	Resonance effects on the Raman spectra of graphene superlattices. <i>Physical Review B</i> , 2013 , 88,	3.3	104
194	Raman spectroscopy of twisted bilayer graphene. <i>Solid State Communications</i> , 2013 , 175-176, 3-12	1.6	70
193	The use of Raman spectroscopy to characterize the carbon materials found in Amazonian anthrosoils. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 283-289	2.3	44
192	Dynamics of the formation of carbon nanotube serpentines. <i>Physical Review Letters</i> , 2013 , 110, 105502	7.4	10
191	Raman scattering study of the phonon dispersion in twisted bilayer graphene. <i>Nano Research</i> , 2013 , 6, 269-274	10	70
190	Microscopy and spectroscopy analysis of carbon nanostructures in highly fertile Amazonian anthrosoils. <i>Soil and Tillage Research</i> , 2012 , 122, 61-66	6.5	43
189	In situ atomic force microscopy tip-induced deformations and Raman spectroscopy characterization of single-wall carbon nanotubes. <i>Nano Letters</i> , 2012 , 12, 4110-6	11.5	14
188	Perspectives on Raman spectroscopy of graphene-based systems: from the perfect two-dimensional surface to charcoal. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 15246-56	3.6	43
187	The use of Focused Ion Beam to Build Nanodevices with Graphitic Structures 2012 , 235-243		
186	Study of Carbon Nanotube-Substrate Interaction. <i>Journal of Nanotechnology</i> , 2012 , 2012, 1-10	3.5	12
185	Raman Spectroscopy in Graphene-Based Systems: Prototypes for Nanoscience and Nanometrology. <i>ISRN Nanotechnology</i> , 2012 , 2012, 1-16		102
184	Estudo teórico e experimental de espectros infravermelho de ésteres de ácido graxo presentes na composição do biodiesel de soja. <i>Química Nova</i> , 2012 , 35, 1752-1757	1.6	4
183	The use of a Ga ⁺ focused ion beam to modify graphene for device applications. <i>Nanotechnology</i> , 2012 , 23, 255305	3.4	38
182	Mechanism of near-field Raman enhancement in two-dimensional systems. <i>Physical Review B</i> , 2012 , 85,	3.3	46
181	Electron Microscopy and Spectroscopy Analysis of Carbon Nanostructures in Highly Fertile Amazonian Anthrosoils. <i>Microscopy and Microanalysis</i> , 2012 , 18, 1502-1503	0.5	2

180	2011,			359
179	Measuring Disorder in Graphene with Raman Spectroscopy 2011,			7
178	Ion beam nanopatterning and micro-Raman spectroscopy analysis on HOPG for testing FIB performances. <i>Ultramicroscopy</i> , 2011 , 111, 1338-42	3.1		12
177	Raman signature of graphene superlattices. <i>Nano Letters</i> , 2011 , 11, 4527-34	11.5		191
176	Raman spectroscopy of graphene and carbon nanotubes. <i>Advances in Physics</i> , 2011 , 60, 413-550	18.4		634
175	Quantifying defects in graphene via Raman spectroscopy at different excitation energies. <i>Nano Letters</i> , 2011 , 11, 3190-6	11.5		2228
174	Raman Spectroscopy: Characterization of Edges, Defects, and the Fermi Energy of Graphene and sp ² Carbons. <i>Nanoscience and Technology</i> , 2011 , 15-55	0.6		3
173	Raman study of nanotube-substrate interaction using single-wall carbon nanotubes grown on crystalline quartz. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2536-2539	1.3		6
172	On the Formation of Carbon Nanotube Serpentine: Insights from Multi-Million Atom Molecular Dynamics Simulation. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1284, 79			1
171	Brazilian science towards a phase transition. <i>Nature Materials</i> , 2010 , 9, 528-31	27		2
170	Calibrating the single-wall carbon nanotube resonance Raman intensity by high resolution transmission electron microscopy for a spectroscopy-based diameter distribution determination. <i>Applied Physics Letters</i> , 2010 , 96, 051910	3.4		18
169	Nanostructured Materials: Metrology 2010 , 1-7			1
168	Chemical vapor deposition synthesis of N-, P-, and Si-doped single-walled carbon nanotubes. <i>ACS Nano</i> , 2010 , 4, 1696-702	16.7		101
167	Perspectives on carbon nanotubes and graphene Raman spectroscopy. <i>Nano Letters</i> , 2010 , 10, 751-8	11.5		2389
166	Modulating the electronic properties along carbon nanotubes via tube-substrate interaction. <i>Nano Letters</i> , 2010 , 10, 5043-8	11.5		46
165	Evolution of the Raman spectra from single-, few-, and many-layer graphene with increasing disorder. <i>Physical Review B</i> , 2010 , 82,	3.3		503
164	Highly efficient siRNA delivery system into human and murine cells using single-wall carbon nanotubes. <i>Nanotechnology</i> , 2010 , 21, 385101	3.4		72
163	Characterizing Graphene, Graphite, and Carbon Nanotubes by Raman Spectroscopy. <i>Annual Review of Condensed Matter Physics</i> , 2010 , 1, 89-108	19.7		454

162	Dielectric constant model for environmental effects on the exciton energies of single wall carbon nanotubes. <i>Applied Physics Letters</i> , 2010 , 97, 091905	3.4	70
161	Raman study of ion-induced defects in N-layer graphene. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 334204	1.8	75
160	Defect characterization in graphene and carbon nanotubes using Raman spectroscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 5355-77	3	472
159	Resonance Raman spectroscopy of the radial breathing modes in carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 1251-1261	3	95
158	Quantifying ion-induced defects and Raman relaxation length in graphene. <i>Carbon</i> , 2010 , 48, 1592-1597	10.4	1211
157	The Kataura plot for single wall carbon nanotubes on top of crystalline quartz. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2835-2837	1.3	16
156	Measuring disorder in graphene with the G and D bands. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2980-2982	1.3	133
155	Chirality dependence of the dielectric constant for the excitonic transition energy of single-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2847-2850	1.3	1
154	The effect of environment on the radial breathing mode of supergrowth single wall carbon nanotubes. <i>Applied Physics Letters</i> , 2009 , 95, 261902	3.4	22
153	Mechanism of near-field Raman enhancement in one-dimensional systems. <i>Physical Review Letters</i> , 2009 , 103, 186101	7.4	68
152	Diameter dependence of the dielectric constant for the excitonic transition energy of single-wall carbon nanotubes. <i>Physical Review Letters</i> , 2009 , 103, 146802	7.4	47
151	PHOTOLUMINESCENCE AND PHOTOLUMINESCENCE EXCITATION SPECTROSCOPY OF SEMICONDUCTING SINGLE WALL CARBON NANOTUBES. <i>International Journal of Modern Physics B</i> , 2009 , 23, 2676-2677	1.1	
150	Boron, nitrogen and phosphorous substitutionally doped single-wall carbon nanotubes studied by resonance Raman spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2432-2435	1.3	18
149	Exciton energy calculations for single wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2581-2585	1.3	4
148	Raman spectroscopy study of Ar+ bombardment in highly oriented pyrolytic graphite. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2689-2692	1.3	28
147	Biodiesel compatibility with carbon steel and HDPE parts. <i>Fuel Processing Technology</i> , 2009 , 90, 1175-1182	2	62
146	Synthesis, electronic structure, and Raman scattering of phosphorus-doped single-wall carbon nanotubes. <i>Nano Letters</i> , 2009 , 9, 2267-72	11.5	121
145	Group-theory analysis of electrons and phonons in N-layer graphene systems. <i>Physical Review B</i> , 2009 , 79,	3.3	130

144	Electron and phonon renormalization near charged defects in carbon nanotubes. <i>Nature Materials</i> , 2008 , 7, 878-83	27	236
143	Nature of the constant factor in the relation between radial breathing mode frequency and tube diameter for single-wall carbon nanotubes. <i>Physical Review B</i> , 2008 , 77,	3.3	161
142	Visualizing the local optical response of semiconducting carbon nanotubes to DNA-wrapping. <i>Nano Letters</i> , 2008 , 8, 2706-11	11.5	47
141	Exciton decay dynamics in individual carbon nanotubes at room temperature. <i>Applied Physics Letters</i> , 2008 , 92, 153116	3.4	35
140	The two peaks G? band in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2197-2200,		23
139	The role of environmental effects on the optical transition energies and radial breathing mode frequency of single wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2201-2204	1.3	38
138	Measuring the degree of stacking order in graphite by Raman spectroscopy. <i>Carbon</i> , 2008 , 46, 272-275	10.4	301
137	Excitons and exciton-phonon coupling in metallic single-walled carbon nanotubes: Resonance Raman spectroscopy. <i>Physical Review B</i> , 2008 , 78,	3.3	47
136	Deformation induced semiconductor-metal transition in single wall carbon nanotubes probed by electric force microscopy. <i>Physical Review Letters</i> , 2008 , 100, 256804	7.4	57
135	Chapter 4 Raman spectroscopy of carbon nanotubes. <i>Contemporary Concepts of Condensed Matter Science</i> , 2008 , 3, 83-108		14
134	Atomistic simulations of the mechanical properties of SuperCarbon nanotubes. <i>Nanotechnology</i> , 2007 , 18, 335702	3.4	65
133	Raman Spectroscopy of Carbon Nanotubes in 1997 and 2007. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17887-17893	3.8	220
132	Exciton-photon, exciton-phonon matrix elements, and resonant Raman intensity of single-wall carbon nanotubes. <i>Physical Review B</i> , 2007 , 75,	3.3	81
131	Characterization of DNA-wrapped carbon nanotubes by resonance Raman and optical absorption spectroscopies. <i>Chemical Physics Letters</i> , 2007 , 439, 138-142	2.5	58
130	Finite length effects in DNA-wrapped carbon nanotubes. <i>Chemical Physics Letters</i> , 2007 , 443, 328-332	2.5	7
129	Raman scattering from one-dimensional carbon systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 37, 81-87	3	10
128	Optical studies of carbon nanotubes and nanographites. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 37, 88-92	3	22
127	The fundamental aspects of carbon nanotube metrology. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 4011-4015	1.3	2

126	Exciton photophysics of carbon nanotubes. <i>Annual Review of Physical Chemistry</i> , 2007 , 58, 719-47	15.7	177
125	Studying disorder in graphite-based systems by Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1276-91	3.6	3172
124	Decarboxylation of oxidized single-wall carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3421-30	1.3	7
123	Atomic size-limited intercalation into single wall carbon nanotubes. <i>Nanotechnology</i> , 2007 , 18, 435705	3.4	4
122	Length characterization of DNA-wrapped carbon nanotubes using Raman spectroscopy. <i>Applied Physics Letters</i> , 2007 , 90, 131109	3.4	38
121	Resonance Raman study of polyynes encapsulated in single-wall carbon nanotubes. <i>Physical Review B</i> , 2007 , 76,	3.3	43
120	Nanometrology Links State-of-the-Art Academic Research and Ultimate Industry Needs for Technological Innovation. <i>MRS Bulletin</i> , 2007 , 32, 988-993	3.2	3
119	Third and fourth optical transitions in semiconducting carbon nanotubes. <i>Physical Review Letters</i> , 2007 , 98, 067401	7.4	253
118	Mechanical properties of carbon nanotube networks by molecular mechanics and impact molecular dynamics calculations. <i>Physical Review B</i> , 2007 , 75,	3.3	45
117	Chirality dependence of exciton effects in single-wall carbon nanotubes: Tight-binding model. <i>Physical Review B</i> , 2007 , 75,	3.3	197
116	Measuring the absolute Raman cross section of nanographites as a function of laser energy and crystallite size. <i>Physical Review B</i> , 2007 , 76,	3.3	196
115	Introduction to the Important and Exciting Aspects of Carbon-Nanotube Science and Technology. <i>Topics in Applied Physics</i> , 2007 , 1-12	0.5	16
114	Carbon-Nanotube Metrology. <i>Topics in Applied Physics</i> , 2007 , 63-100	0.5	22
113	Review on the symmetry-related properties of carbon nanotubes. <i>Physics Reports</i> , 2006 , 431, 261-302	27.7	121
112	Geometric and electronic structure of carbon nanotube networks: Super-carbon nanotubes. <i>Nanotechnology</i> , 2006 , 17, 617-621	3.4	70
111	Electronic and Mechanical Properties of Super Carbon Nanotube Networks. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 963, 1		
110	Carbon nanotube population analysis from Raman and photoluminescence intensities. <i>Applied Physics Letters</i> , 2006 , 88, 023109	3.4	46
109	Trigonal Anisotropy in Graphite and Carbon Nanotubes. <i>Molecular Crystals and Liquid Crystals</i> , 2006 , 455, 287-294	0.5	1

108	Raman resonance window of single-wall carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	29
107	Raman characterization of electronic transition energies of metallic single-wall carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	32
106	Resonance Raman study of linear carbon chains formed by the heat treatment of double-wall carbon nanotubes. <i>Physical Review B</i> , 2006 , 73,	3.3	73
105	Resonance Raman spectroscopy in one-dimensional carbon materials. <i>Anais Da Academia Brasileira De Ciencias</i> , 2006 , 78, 423-39	1.4	4
104	The Kataura plot over broad energy and diameter ranges. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3117-3121	1.3	31
103	Photoluminescence intensity of single-wall carbon nanotubes. <i>Carbon</i> , 2006 , 44, 873-879	10.4	136
102	D-band Raman intensity of graphitic materials as a function of laser energy and crystallite size. <i>Chemical Physics Letters</i> , 2006 , 427, 117-121	2.5	187
101	General equation for the determination of the crystallite size L_a of nanographite by Raman spectroscopy. <i>Applied Physics Letters</i> , 2006 , 88, 163106	3.4	1736
100	Selection rules for one- and two-photon absorption by excitons in carbon nanotubes. <i>Physical Review B</i> , 2006 , 73,	3.3	43
99	Raman spectroscopy of graphitic foams. <i>Physical Review B</i> , 2005 , 71,	3.3	125
98	Quantifying carbon-nanotube species with resonance Raman scattering. <i>Physical Review B</i> , 2005 , 72,	3.3	145
97	Resonance Raman spectroscopy (n,m)-dependent effects in small-diameter single-wall carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	208
96	Steplike dispersion of the intermediate-frequency Raman modes in semiconducting and metallic carbon nanotubes. <i>Physical Review B</i> , 2005 , 72,	3.3	49
95	Recent advances in carbon nanotube photophysics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 29, 443-446	3	12
94	Raman spectroscopy of carbon nanotubes. <i>Physics Reports</i> , 2005 , 409, 47-99	27.7	3238
93	Origin of the 2450cm ⁻¹ Raman bands in HOPG, single-wall and double-wall carbon nanotubes. <i>Carbon</i> , 2005 , 43, 1049-1054	10.4	101
92	Choroidal neovascularization after accidental macular damage by laser. <i>Clinical and Experimental Ophthalmology</i> , 2005 , 33, 298-300	2.4	7
91	Semiconducting Carbon Nanotubes. <i>AIP Conference Proceedings</i> , 2005 ,	0	6

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