

Ado Jorio

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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 spectroscopy of carbon nanotubes. <i>Physics Reports</i> , 2005 , 409, 47-99	27.7	3238
268	Studying disorder in graphite-based systems by Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1276-91	3.6	3172
267	Perspectives on carbon nanotubes and graphene Raman spectroscopy. <i>Nano Letters</i> , 2010 , 10, 751-8	11.5	2389
266	Quantifying defects in graphene via Raman spectroscopy at different excitation energies. <i>Nano Letters</i> , 2011 , 11, 3190-6	11.5	2228
265	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
264	Structural (n, m) determination of isolated single-wall carbon nanotubes by resonant Raman scattering. <i>Physical Review Letters</i> , 2001 , 86, 1118-21	7.4	1247
263	Quantifying ion-induced defects and Raman relaxation length in graphene. <i>Carbon</i> , 2010 , 48, 1592-1597	10.4	1211
262	Raman spectroscopy on isolated single wall carbon nanotubes. <i>Carbon</i> , 2002 , 40, 2043-2061	10.4	1166
261	Characterizing carbon nanotube samples with resonance Raman scattering. <i>New Journal of Physics</i> , 2003 , 5, 139-139	2.9	788
260	Raman spectroscopy of graphene and carbon nanotubes. <i>Advances in Physics</i> , 2011 , 60, 413-550	18.4	634
259	Development of nanotechnologies. <i>Materials Today</i> , 2004 , 7, 30-35	21.8	605
258	Optical transition energies for carbon nanotubes from resonant Raman spectroscopy: environment and temperature effects. <i>Physical Review Letters</i> , 2004 , 93, 147406	7.4	527
257	Influence of the atomic structure on the Raman spectra of graphite edges. <i>Physical Review Letters</i> , 2004 , 93, 247401	7.4	521
256	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
255	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
254	Characterizing Graphene, Graphite, and Carbon Nanotubes by Raman Spectroscopy. <i>Annual Review of Condensed Matter Physics</i> , 2010 , 1, 89-108	19.7	454
253	Origin of the Breit-Wigner-Fano lineshape of the tangential G-band feature of metallic carbon nanotubes. <i>Physical Review B</i> , 2001 , 63,	3.3	441

252	Probing phonon dispersion relations of graphite by double resonance Raman scattering. <i>Physical Review Letters</i> , 2002 , 88, 027401	7.4	438
251	G-band resonant Raman study of 62 isolated single-wall carbon nanotubes. <i>Physical Review B</i> , 2002 , 65,	3.3	389
250	UNUSUAL PROPERTIES AND STRUCTURE OF CARBON NANOTUBES. <i>Annual Review of Materials Research</i> , 2004 , 34, 247-278	12.8	373
249	2011 ,		359
248	Polarized raman study of aligned multiwalled carbon nanotubes. <i>Physical Review Letters</i> , 2000 , 84, 1820-34	3.4	310
247	Measuring the degree of stacking order in graphite by Raman spectroscopy. <i>Carbon</i> , 2008 , 46, 272-275	10.4	301
246	Third and fourth optical transitions in semiconducting carbon nanotubes. <i>Physical Review Letters</i> , 2007 , 98, 067401	7.4	253
245	Inhomogeneous optical absorption around the K point in graphite and carbon nanotubes. <i>Physical Review B</i> , 2003 , 67,	3.3	239
244	Electron and phonon renormalization near charged defects in carbon nanotubes. <i>Nature Materials</i> , 2008 , 7, 878-83	27	236
243	Raman Spectroscopy of Carbon Nanotubes in 1997 and 2007. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17887-17893	3.8	220
242	Single nanotube Raman spectroscopy. <i>Accounts of Chemical Research</i> , 2002 , 35, 1070-8	24.3	216
241	Resonance Raman spectroscopy (n,m)-dependent effects in small-diameter single-wall carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	208
240	Double resonance Raman spectroscopy of single-wall carbon nanotubes. <i>New Journal of Physics</i> , 2003 , 5, 157-157	2.9	205
239	New direction in nanotube science. <i>Materials Today</i> , 2004 , 7, 30-45	21.8	200
238	Chirality dependence of exciton effects in single-wall carbon nanotubes: Tight-binding model. <i>Physical Review B</i> , 2007 , 75,	3.3	197
237	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
236	Polarized raman study of single-wall semiconducting carbon nanotubes. <i>Physical Review Letters</i> , 2000 , 85, 2617-20	7.4	196
235	Raman signature of graphene superlattices. <i>Nano Letters</i> , 2011 , 11, 4527-34	11.5	191

234	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
233	Exciton photophysics of carbon nanotubes. <i>Annual Review of Physical Chemistry</i> , 2007 , 58, 719-47	15.7	177
232	Anisotropy of the Raman spectra of nanographite ribbons. <i>Physical Review Letters</i> , 2004 , 93, 047403	7.4	177
231	Linewidth of the Raman features of individual single-wall carbon nanotubes. <i>Physical Review B</i> , 2002 , 66,	3.3	172
230	Family behavior of the optical transition energies in single-wall carbon nanotubes of smaller diameters. <i>Applied Physics Letters</i> , 2004 , 85, 5703-5705	3.4	169
229	Nanowires and nanotubes. <i>Materials Science and Engineering C</i> , 2003 , 23, 129-140	8.3	167
228	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
227	Observations of the D-band feature in the Raman spectra of carbon nanotubes. <i>Physical Review B</i> , 2001 , 64,	3.3	155
226	Quantifying carbon-nanotube species with resonance Raman scattering. <i>Physical Review B</i> , 2005 , 72,	3.3	145
225	Electron-phonon matrix elements in single-wall carbon nanotubes. <i>Physical Review B</i> , 2005 , 72,	3.3	138
224	Stokes and anti-Stokes double resonance Raman scattering in two-dimensional graphite. <i>Physical Review B</i> , 2002 , 66,	3.3	137
223	Photoluminescence intensity of single-wall carbon nanotubes. <i>Carbon</i> , 2006 , 44, 873-879	10.4	136
222	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
221	Raman spectroscopy for probing chemically/physically induced phenomena in carbon nanotubes. <i>Nanotechnology</i> , 2003 , 14, 1130-1139	3.4	131
220	Group theory analysis of phonons in two-dimensional transition metal dichalcogenides. <i>Physical Review B</i> , 2014 , 90,	3.3	130
219	Group-theory analysis of electrons and phonons in N-layer graphene systems. <i>Physical Review B</i> , 2009 , 79,	3.3	130
218	Joint density of electronic states for one isolated single-wall carbon nanotube studied by resonant Raman scattering. <i>Physical Review B</i> , 2001 , 63,	3.3	128
217	Raman spectroscopy of graphitic foams. <i>Physical Review B</i> , 2005 , 71,	3.3	125

216	Structural analysis of polycrystalline graphene systems by Raman spectroscopy. <i>Carbon</i> , 2015 , 95, 646-652.	2.4	122
215	Optical characterization of DNA-wrapped carbon nanotube hybrids. <i>Chemical Physics Letters</i> , 2004 , 397, 296-301	2.5	122
214	Synthesis, electronic structure, and Raman scattering of phosphorus-doped single-wall carbon nanotubes. <i>Nano Letters</i> , 2009 , 9, 2267-72	11.5	121
213	Review on the symmetry-related properties of carbon nanotubes. <i>Physics Reports</i> , 2006 , 431, 261-302	27.7	121
212	Determination of nanotubes properties by Raman spectroscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 2311-36	3	113
211	Polarized resonant Raman study of isolated single-wall carbon nanotubes: Symmetry selection rules, dipolar and multipolar antenna effects. <i>Physical Review B</i> , 2002 , 65,	3.3	113
210	Resonance Raman spectra of carbon nanotubes by cross-polarized light. <i>Physical Review Letters</i> , 2003 , 90, 107403	7.4	112
209	Chirality-dependent G-band Raman intensity of carbon nanotubes. <i>Physical Review B</i> , 2001 , 64,	3.3	110
208	Second-order harmonic and combination modes in graphite, single-wall carbon nanotube bundles, and isolated single-wall carbon nanotubes. <i>Physical Review B</i> , 2002 , 66,	3.3	108
207	The concept of cutting lines in carbon nanotube science. <i>Journal of Nanoscience and Nanotechnology</i> , 2003 , 3, 431-58	1.3	106
206	Resonance effects on the Raman spectra of graphene superlattices. <i>Physical Review B</i> , 2013 , 88,	3.3	104
205	Phonon-assisted excitonic recombination channels observed in DNA-wrapped carbon nanotubes using photoluminescence spectroscopy. <i>Physical Review Letters</i> , 2005 , 94, 127402	7.4	104
204	Raman Spectroscopy in Graphene-Based Systems: Prototypes for Nanoscience and Nanometrology. <i>ISRN Nanotechnology</i> , 2012 , 2012, 1-16		102
203	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
202	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
201	Diameter dependence of the Raman D-band in isolated single-wall carbon nanotubes. <i>Physical Review B</i> , 2001 , 64,	3.3	101
200	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
199	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

198	Direct experimental evidence of exciton-phonon bound states in carbon nanotubes. <i>Physical Review Letters</i> , 2005 , 95, 247401	7.4	94
197	Stokes and anti-Stokes Raman spectra of small-diameter isolated carbon nanotubes. <i>Physical Review B</i> , 2004 , 69,	3.3	91
196	Determination of two-dimensional phonon dispersion relation of graphite by Raman spectroscopy. <i>Physical Review B</i> , 2002 , 65,	3.3	91
195	Competing spring constant versus double resonance effects on the properties of dispersive modes in isolated single-wall carbon nanotubes. <i>Physical Review B</i> , 2003 , 67,	3.3	84
194	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
193	Spectro-electrochemical studies of single wall carbon nanotubes films. <i>Chemical Physics Letters</i> , 2004 , 392, 396-402	2.5	79
192	Electronic transition energy E_{ii} for an isolated (n,m) single-wall carbon nanotube obtained by anti-Stokes/Stokes resonant Raman intensity ratio. <i>Physical Review B</i> , 2001 , 63,	3.3	78
191	Raman study of ion-induced defects in N-layer graphene. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 334204	1.8	75
190	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
189	Intensity of the resonance Raman excitation spectra of single-wall carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	73
188	Highly efficient siRNA delivery system into human and murine cells using single-wall carbon nanotubes. <i>Nanotechnology</i> , 2010 , 21, 385101	3.4	72
187	Raman Studies of Carbon Nanostructures. <i>Annual Review of Materials Research</i> , 2016 , 46, 357-382	12.8	72
186	Group theory for structural analysis and lattice vibrations in phosphorene systems. <i>Physical Review B</i> , 2015 , 91,	3.3	71
185	Anomalous two-peak G ⁻ -band Raman effect in one isolated single-wall carbon nanotube. <i>Physical Review B</i> , 2002 , 65,	3.3	71
184	Raman spectroscopy of twisted bilayer graphene. <i>Solid State Communications</i> , 2013 , 175-176, 3-12	1.6	70
183	Raman scattering study of the phonon dispersion in twisted bilayer graphene. <i>Nano Research</i> , 2013 , 6, 269-274	10	70
182	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
181	Geometric and electronic structure of carbon nanotube networks: SuperCarbon nanotubes. <i>Nanotechnology</i> , 2006 , 17, 617-621	3.4	70

180	Interband optical transitions in left- and right-handed single-wall carbon nanotubes. <i>Physical Review B</i> , 2004 , 69,	3.3	70
179	Mechanism of near-field Raman enhancement in one-dimensional systems. <i>Physical Review Letters</i> , 2009 , 103, 186101	7.4	68
178	Second Harmonic Generation in WSe 2. <i>2D Materials</i> , 2015 , 2, 045015	5.9	66
177	Atomistic simulations of the mechanical properties of SuperCarbon nanotubes. <i>Nanotechnology</i> , 2007 , 18, 335702	3.4	65
176	Biodiesel compatibility with carbon steel and HDPE parts. <i>Fuel Processing Technology</i> , 2009 , 90, 1175-1182	2.8	62
175	Raman spectroscopy on one isolated carbon nanotube. <i>Physica B: Condensed Matter</i> , 2002 , 323, 15-20	2.8	61
174	Dispersive Raman spectra observed in graphite and single wall carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2002 , 323, 100-106	2.8	61
173	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
172	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
171	Spatial coherence in near-field Raman scattering. <i>Physical Review Letters</i> , 2014 , 113, 186101	7.4	55
170	One-dimensional character of combination modes in the resonance Raman scattering of carbon nanotubes. <i>Physical Review Letters</i> , 2004 , 93, 087401	7.4	55
169	Tip-enhanced Raman mapping of local strain in graphene. <i>Nanotechnology</i> , 2015 , 26, 175702	3.4	53
168	Photoexcited electron relaxation processes in single-wall carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	53
167	Phonon trigonal warping effect in graphite and carbon nanotubes. <i>Physical Review Letters</i> , 2003 , 90, 027403	7.4	52
166	Raman spectroscopy for carbon nanotube applications. <i>Journal of Applied Physics</i> , 2021 , 129, 021102	2.5	51
165	Tuning Localized Surface Plasmon Resonance in Scanning Near-Field Optical Microscopy Probes. <i>ACS Nano</i> , 2015 , 9, 6297-304	16.7	50
164	Steplike dispersion of the intermediate-frequency Raman modes in semiconducting and metallic carbon nanotubes. <i>Physical Review B</i> , 2005 , 72,	3.3	49
163	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

162	Visualizing the local optical response of semiconducting carbon nanotubes to DNA-wrapping. <i>Nano Letters</i> , 2008 , 8, 2706-11	11.5	47
161	Excitons and exciton-phonon coupling in metallic single-walled carbon nanotubes: Resonance Raman spectroscopy. <i>Physical Review B</i> , 2008 , 78,	3.3	47
160	Modulating the electronic properties along carbon nanotubes via tube-substrate interaction. <i>Nano Letters</i> , 2010 , 10, 5043-8	11.5	46
159	Mechanism of near-field Raman enhancement in two-dimensional systems. <i>Physical Review B</i> , 2012 , 85,	3.3	46
158	Carbon nanotube population analysis from Raman and photoluminescence intensities. <i>Applied Physics Letters</i> , 2006 , 88, 023109	3.4	46
157	Probing the electronic trigonal warping effect in individual single-wall carbon nanotubes using phonon spectra. <i>Chemical Physics Letters</i> , 2002 , 354, 62-68	2.5	46
156	Localization of lattice dynamics in low-angle twisted bilayer graphene. <i>Nature</i> , 2021 , 590, 405-409	50.4	46
155	Mechanical properties of carbon nanotube networks by molecular mechanics and impact molecular dynamics calculations. <i>Physical Review B</i> , 2007 , 75,	3.3	45
154	Single- and double-resonance Raman G-band processes in carbon nanotubes. <i>Physical Review B</i> , 2004 , 69,	3.3	45
153	Chemical analysis and molecular models for calcium-oxygen-carbon interactions in black carbon found in fertile Amazonian anthrosoils. <i>Environmental Science & Technology</i> , 2014 , 48, 7445-52	10.3	44
152	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
151	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
150	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
149	Resonance Raman study of polyynes encapsulated in single-wall carbon nanotubes. <i>Physical Review B</i> , 2007 , 76,	3.3	43
148	Selection rules for one- and two-photon absorption by excitons in carbon nanotubes. <i>Physical Review B</i> , 2006 , 73,	3.3	43
147	Optical absorption of graphite and single-wall carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 78, 1099-1105	2.6	43
146	Effect of quantized electronic states on the dispersive Raman features in individual single-wall carbon nanotubes. <i>Physical Review B</i> , 2001 , 65,	3.3	43
145	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

144	Raman spectroscopy analysis of number of layers in mass-produced graphene flakes. <i>Carbon</i> , 2020 , 161, 181-189	10.4	40
143	Line shape analysis of the Raman spectra from pure and mixed biofuels esters compounds. <i>Fuel</i> , 2014 , 115, 118-125	7.1	40
142	The use of a Ga ⁺ focused ion beam to modify graphene for device applications. <i>Nanotechnology</i> , 2012 , 23, 255305	3.4	38
141	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
140	Length characterization of DNA-wrapped carbon nanotubes using Raman spectroscopy. <i>Applied Physics Letters</i> , 2007 , 90, 131109	3.4	38
139	Exciton decay dynamics in individual carbon nanotubes at room temperature. <i>Applied Physics Letters</i> , 2008 , 92, 153116	3.4	35
138	Carbon Nanotube Photophysics. <i>MRS Bulletin</i> , 2004 , 29, 276-280	3.2	35
137	Is Tsallis thermodynamics nonextensive?. <i>Physical Review Letters</i> , 2002 , 88, 020601	7.4	35
136	Optical-phonon resonances with saddle-point excitons in twisted-bilayer graphene. <i>Nano Letters</i> , 2014 , 14, 5687-92	11.5	34
135	Raman studies on 0.4 nm diameter single wall carbon nanotubes. <i>Chemical Physics Letters</i> , 2002 , 351, 27-34	2.5	34
134	Science and applications of single-nanotube Raman spectroscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2003 , 3, 19-37	1.3	33
133	Micro-Raman investigation of aligned single-wall carbon nanotubes. <i>Physical Review B</i> , 2001 , 63,	3.3	33
132	Raman characterization of electronic transition energies of metallic single-wall carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	32
131	The Kataura plot over broad energy and diameter ranges. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3117-3121	1.3	31
130	Raman resonance window of single-wall carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	29
129	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
128	Phonon-assisted exciton relaxation dynamics for a (6,5)-enriched DNA-wrapped single-walled carbon nanotube sample. <i>Physical Review B</i> , 2005 , 72,	3.3	27
127	Symmetry-derived selection rules for plasmon-enhanced Raman scattering. <i>Physical Review B</i> , 2017 , 95,	3.3	26

126	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
125	Theory of Spatial Coherence in Near-Field Raman Scattering. <i>Physical Review X</i> , 2014 , 4,	9.1	24
124	Resonant Raman spectra of carbon nanotube bundles observed by perpendicularly polarized light. <i>Chemical Physics Letters</i> , 2004 , 387, 301-306	2.5	24
123	Stokes-anti-Stokes correlations in diamond. <i>Optics Letters</i> , 2015 , 40, 2393-6	3	23
122	The two peaks G? band in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2197-2200,	2.8	23
121	Polarization effects in surface-enhanced resonant Raman scattering of single-wall carbon nanotubes on colloidal silver clusters. <i>Physical Review B</i> , 2001 , 63,	3.3	23
120	Inner- and outer-wall sorting of double-walled carbon nanotubes. <i>Nature Nanotechnology</i> , 2017 , 12, 1176-1182	11.8	22
119	Plasmon-Tunable Tip Pyramids: Monopole Nanoantennas for Near-Field Scanning Optical Microscopy. <i>Advanced Optical Materials</i> , 2018 , 6, 1800528	8.1	22
118	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
117	Optical studies of carbon nanotubes and nanographites. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 37, 88-92	3	22
116	Carbon-Nanotube Metrology. <i>Topics in Applied Physics</i> , 2007 , 63-100	0.5	22
115	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
114	First and Second-Order Resonance Raman Process in Graphite and Single Wall Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 4878-4882	1.4	20
113	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
112	Basal-plane incommensurate phases in hexagonal-close-packed structures. <i>Physical Review B</i> , 1998 , 57, 5086-5092	3.3	19
111	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
110	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
109	Anomalous Nonlinear Optical Response of Graphene Near Phonon Resonances. <i>Nano Letters</i> , 2017 , 17, 3447-3451	11.5	17

108	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
107	Efficient delivery of DNA into bovine preimplantation embryos by multiwall carbon nanotubes. <i>Scientific Reports</i> , 2016 , 6, 33588	4.9	17
106	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
105	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
104	Coupling and scattering power exchange between phonon modes observed in surface-enhanced Raman spectra of single-wall carbon nanotubes on silver colloidal clusters. <i>Physical Review B</i> , 2001 , 63,	3.3	16
103	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
102	Defect-Free Carbon Nanotube Coils. <i>Nano Letters</i> , 2016 , 16, 2152-8	11.5	15
101	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
100	Dopamine signaling regulates fat content through β -oxidation in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2014 , 9, e85874	3.7	15
99	Advances in single nanotube spectroscopy: Raman spectra from cross-polarized light and chirality dependence of Raman frequencies. <i>Carbon</i> , 2004 , 42, 1067-1069	10.4	15
98	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
97	Chapter 4 Raman spectroscopy of carbon nanotubes. <i>Contemporary Concepts of Condensed Matter Science</i> , 2008 , 3, 83-108		14
96	Optical Nanoantennas for Tip-Enhanced Raman Spectroscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 27, 1-11	3.8	14
95	Enhanced Mechanical Stability of Gold Nanotips through Carbon Nanocone Encapsulation. <i>Scientific Reports</i> , 2015 , 5, 10408	4.9	13
94	Photonic Counterparts of Cooper Pairs. <i>Physical Review Letters</i> , 2017 , 119, 193603	7.4	13
93	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
92	Ferroelastic phase transition in Cs ₃ Bi ₂ I ₉ : A neutron diffraction study. <i>Physical Review B</i> , 2000 , 61, 3857-3862	3.5	13
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