

Ado Jorio

List of Publications by Year in descending order

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289
papers

42,580
citations

4942

84
h-index

2171

202
g-index

296
all docs

296
docs citations

296
times ranked

36263
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman spectra-based structural classification analysis of quinoidal and derived molecular systems. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1183-1190.	1.3	2
2	Raman spectra of twisted bilayer graphene close to the magic angle. <i>2D Materials</i> , 2022, 9, 025007.	2.0	12
3	Inclusion of the sample-tip interaction term in the theory of tip-enhanced Raman spectroscopy. <i>Physical Review B</i> , 2022, 105, .	1.1	3
4	Optical Nanoantennas for Tip-Enhanced Raman Spectroscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-11.	1.9	21
5	Event chronology analysis of the historical development of tip-enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 587-599.	1.2	5
6	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.	3.8	3
7	Nonlinear and vibrational microscopy for label-free characterization of amyloid- β^2 plaques in Alzheimer's disease model. <i>Analyst, The</i> , 2021, 146, 2945-2954.	1.7	11
8	Micro-Raman spectroscopy of lipid halo and dense-core amyloid plaques: aging process characterization in the Alzheimer's disease APP ^{swe} PS1 ^{E9} mouse model. <i>Analyst, The</i> , 2021, 146, 6014-6025.	1.7	4
9	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.	2.4	19
10	Localization of lattice dynamics in low-angle twisted bilayer graphene. <i>Nature</i> , 2021, 590, 405-409.	13.7	139
11	The limits of near field immersion microwave microscopy evaluated by imaging bilayer graphene moiré patterns. <i>Nature Communications</i> , 2021, 12, 2980.	5.8	11
12	Nano-optical Imaging of In-Plane Homojunctions in Graphene and MoS ₂ van der Waals Heterostructures on Talc and SiO ₂ . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7625-7631.	2.1	14
13	Studying 2D materials with advanced Raman spectroscopy: CARS, SRS and TERS. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23428-23444.	1.3	26
14	Raman spectroscopy for carbon nanotube applications. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	212
15	Few-Wall Carbon Nanotube Coils. <i>Nano Letters</i> , 2020, 20, 953-962.	4.5	14
16	Raman spectroscopy polarization dependence analysis in two-dimensional gallium sulfide. <i>Physical Review B</i> , 2020, 102, .	1.1	16
17	Nanofabrication of plasmon-tunable nanoantennas for tip-enhanced Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 153, 114201.	1.2	14
18	Effective Hamiltonian for Stokes-anti-Stokes pair generation with pump and probe polarized modes. <i>Physical Review B</i> , 2020, 102, .	1.1	5

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19	Nanomechanics of few-layer materials: do individual layers slide upon folding?. Beilstein Journal of Nanotechnology, 2020, 11, 1801-1808.	1.5	4
20	Stokesâ€™ anti-Stokes light-scattering process: A photon-wave-function approach. Physical Review A, 2020, 102, .	1.0	3
21	Linkage Between Micro- and Nano-Raman Spectroscopy of Defects in Graphene. Physical Review Applied, 2020, 14, .	1.5	15
22	Properties of carbon particles in archeological and natural Amazon rainforest soils. Catena, 2020, 194, 104687.	2.2	4
23	Optical Properties of Plasmonâ€™Tunable Tip Pyramids for Tipâ€™Enhanced Raman Spectroscopy. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000212.	1.2	13
24	Raman spectroscopy analysis of number of layers in mass-produced graphene flakes. Carbon, 2020, 161, 181-189.	5.4	87
25	Temperature-dependent phonon dynamics and anharmonicity of suspended and supported few-layer gallium sulfide. Nanotechnology, 2020, 31, 495702.	1.3	10
26	Lifetime and polarization for real and virtual correlated Stokes-anti-Stokes Raman scattering in diamond. Physical Review Research, 2020, 2, .	1.3	9
27	Impact of substrate on tip-enhanced Raman spectroscopy: A comparison between field-distribution simulations and graphene measurements. Physical Review Research, 2020, 2, .	1.3	14
28	Observation of moirÃ© superlattices on twisted bilayer graphene by scanning microwave impedance microscopy. , 2020, , .		2
29	Graphene. Springer Handbooks, 2020, , 1171-1198.	0.3	2
30	Tip-enhanced Raman Spectroscopy of Graphene. , 2019, , .		5
31	Probing Spatial Phonon Correlation Length in Post-Transition Metal Monochalcogenide GaS Using Tip-Enhanced Raman Spectroscopy. Nano Letters, 2019, 19, 7357-7364.	4.5	30
32	Physical Properties of Photonic Cooper Pairs Generated via Correlated Stokesâ€™ antiâ€™Stokes Raman Scattering. Physica Status Solidi (B): Basic Research, 2019, 256, 1900218.	0.7	4
33	Stokesâ€™ anti-Stokes correlated photon properties akin to photonic Cooper pairs. Physical Review B, 2019, 99, .	1.1	9
34	Normalized Spectral Responsivity Measurement of Photodiode by Direct Method Using a Supercontinuum Laser Source. , 2019, , .		0
35	Study of the interaction between light and nanoantennas in Tip-Enhanced Raman Spectroscopy. , 2019, , .		1
36	A fingerprint of amyloid plaques in a bitransgenic animal model of Alzheimer's disease obtained by statistical unmixing analysis of hyperspectral Raman data. Analyst, The, 2019, 144, 7049-7056.	1.7	14

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37	Protocol and reference material for measuring the nanoantenna enhancement factor in Tip-enhanced Raman Spectroscopy. , 2019, , .		3
38	Disorder and Defects in Two-Dimensional Materials Probed by Raman Spectroscopy. Springer Series in Materials Science, 2019, , 99-110.	0.4	1
39	Tip-Enhanced Spectroscopy and Imaging of Carbon Nanomaterials. World Scientific Series on Carbon Nanoscience, 2019, , 175-221.	0.1	4
40	Quantum Correlations in the Stokes-anti-Stokes Raman Scattering: Photonic Cooper Pairs. , 2019, , .		0
41	Mildred S. Dresselhaus (1930–2017). Journal of Raman Spectroscopy, 2018, 49, 13-18.	1.2	3
42	Applications of Raman spectroscopy in graphene-related materials and the development of parameterized PCA for large-scale data analysis. Journal of Raman Spectroscopy, 2018, 49, 54-65.	1.2	28
43	Plasmon-Tunable Tip Pyramids: Monopole Nanoantennas for Near-Field Scanning Optical Microscopy. Advanced Optical Materials, 2018, 6, 1800528.	3.6	35
44	Anomalous Nonlinear Optical Response of Graphene Near Phonon Resonances. Nano Letters, 2017, 17, 3447-3451.	4.5	23
45	Disentangling contributions of point and line defects in the Raman spectra of graphene-related materials. 2D Materials, 2017, 4, 025039.	2.0	146
46	Inner- and outer-wall sorting of double-walled carbon nanotubes. Nature Nanotechnology, 2017, 12, 1176-1182.	15.6	32
47	Vibrations in Graphene. , 2017, , 71-89.		7
48	Photonic Counterparts of Cooper Pairs. Physical Review Letters, 2017, 119, 193603.	2.9	25
49	Multi-walled carbon nanotubes functionalized with recombinant Dengue virus 3 envelope proteins induce significant and specific immune responses in mice. Journal of Nanobiotechnology, 2017, 15, 26.	4.2	45
50	Symmetry-derived selection rules for plasmon-enhanced Raman scattering. Physical Review B, 2017, 95, .	1.1	33
51	Resonant anti-Stokes Raman scattering in single-walled carbon nanotubes. Physical Review B, 2017, 96, .	1.1	15
52	Relação de dispersão para os plásmos-polártons de superfície em uma interface plana metal/dielétrico. Revista Brasileira De Ensino De Física, 2017, 39, .	0.2	2
53	Raman Studies of Carbon Nanostructures. Annual Review of Materials Research, 2016, 46, 357-382.	4.3	112
54	Temporal Quantum Correlations in Inelastic Light Scattering from Water. Physical Review Letters, 2016, 117, 243603.	2.9	28

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55	Efficient delivery of DNA into bovine preimplantation embryos by multiwall carbon nanotubes. <i>Scientific Reports</i> , 2016, 6, 33588.	1.6	21
56	Biocompatibility assessment of fibrous nanomaterials in mammalian embryos. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1151-1159.	1.7	9
57	Stokes's 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, .	1.1	36
58	Vision-based position control applied to probe positioning for Tip Enhanced Raman Spectroscopy. , 2016, , .		1
59	Defect-Free Carbon Nanotube Coils. <i>Nano Letters</i> , 2016, 16, 2152-2158.	4.5	20
60	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.	2.6	21
61	Study of Carbon Nanostructures for Soil Fertility Improvement. <i>Nanomedicine and Nanotoxicology</i> , 2016, , 85-104.	0.1	1
62	Nanostructured Materials: Metrology. , 2016, , .		0
63	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.	0.7	17
64	VII Brazilian Congress on Metrology (Metrologia 2013). <i>Journal of Physics: Conference Series</i> , 2015, 575, 011001.	0.3	0
65	Tip-enhanced Raman mapping of local strain in graphene. <i>Nanotechnology</i> , 2015, 26, 175702.	1.3	62
66	Group theory for structural analysis and lattice vibrations in phosphorene systems. <i>Physical Review B</i> , 2015, 91, .	1.1	82
67	Second Harmonic Generation in WSe ₂ . <i>2D Materials</i> , 2015, 2, 045015.	2.0	88
68	Nanoscale mapping of carbon oxidation in pyrogenic black carbon from ancient Amazonian anthrosols. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 775-779.	1.7	21
69	Strain Discontinuity, Avalanche, and Memory in Carbon Nanotube Serpentine Systems. <i>Nano Letters</i> , 2015, 15, 5899-5904.	4.5	4
70	Enhanced Mechanical Stability of Gold Nanotips through Carbon Nanocone Encapsulation. <i>Scientific Reports</i> , 2015, 5, 10408.	1.6	21
71	Tuning Localized Surface Plasmon Resonance in Scanning Near-Field Optical Microscopy Probes. <i>ACS Nano</i> , 2015, 9, 6297-6304.	7.3	59
72	Stokes's anti-Stokes correlations in diamond. <i>Optics Letters</i> , 2015, 40, 2393.	1.7	36

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73	Structural analysis of polycrystalline graphene systems by Raman spectroscopy. Carbon, 2015, 95, 646-652.	5.4	184
74	Dopamine Signaling Regulates Fat Content through \hat{I}^2 -Oxidation in Caenorhabditis elegans. PLoS ONE, 2014, 9, e85874.	1.1	20
75	Spatial Coherence in Near-Field Raman Scattering. Physical Review Letters, 2014, 113, 186101.	2.9	63
76	Quantifying defects in N-layer graphene via a phenomenological model of Raman spectroscopy. Nuclear Instruments & Methods in Physics Research B, 2014, 319, 71-74.	0.6	15
77	Optical-Phonon Resonances with Saddle-Point Excitons in Twisted-Bilayer Graphene. Nano Letters, 2014, 14, 5687-5692.	4.5	45
78	Chemical Analysis and Molecular Models for Calcium \hat{e} “Oxygen \hat{e} “Carbon Interactions in Black Carbon Found in Fertile Amazonian Anthrosoils. Environmental Science & Technology, 2014, 48, 7445-7452.	4.6	53
79	Group theory analysis of phonons in two-dimensional transition metal dichalcogenides. Physical Review B, 2014, 90, .	1.1	182
80	Theory of Spatial Coherence in Near-Field Raman Scattering. Physical Review X, 2014, 4, .	2.8	31
81	Line shape analysis of the Raman spectra from pure and mixed biofuels esters compounds. Fuel, 2014, 115, 118-125.	3.4	51
82	Resonance effects on the Raman spectra of graphene superlattices. Physical Review B, 2013, 88, .	1.1	128
83	Raman spectroscopy of twisted bilayer graphene. Solid State Communications, 2013, 175-176, 3-12.	0.9	90
84	The use of Raman spectroscopy to characterize the carbon materials found in Amazonian anthrosoils. Journal of Raman Spectroscopy, 2013, 44, 283-289.	1.2	59
85	Dynamics of the Formation of Carbon Nanotube Serpentine. Physical Review Letters, 2013, 110, 105502.	2.9	10
86	Raman scattering study of the phonon dispersion in twisted bilayer graphene. Nano Research, 2013, 6, 269-274.	5.8	85
87	Nanometrology satellite workshop reveals significant progress. MRS Bulletin, 2013, 38, 1076-1077.	1.7	0
88	Mechanism of near-field Raman enhancement in two-dimensional systems. Physical Review B, 2012, 85, .	1.1	52
89	Electron Microscopy and Spectroscopy Analysis of Carbon Nanostructures in Highly Fertile Amazonian Anthrosoils. Microscopy and Microanalysis, 2012, 18, 1502-1503.	0.2	2
90	In Situ Atomic Force Microscopy Tip-Induced Deformations and Raman Spectroscopy Characterization of Single-Wall Carbon Nanotubes. Nano Letters, 2012, 12, 4110-4116.	4.5	14

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91	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.	1.3	50
92	Study of Carbon Nanotube-Substrate Interaction. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-10.	1.5	12
93	Raman Spectroscopy in Graphene-Based Systems: Prototypes for Nanoscience and Nanometrology. <i>ISRN Nanotechnology</i> , 2012, 2012, 1-16.	1.3	123
94	Estudo teórico e experimental de espectros infravermelho de Ésteres de Ácido graxo presentes na composição do biodiesel de soja. <i>Quimica Nova</i> , 2012, 35, 1752-1757.	0.3	5
95	The use of a Ga ⁺ focused ion beam to modify graphene for device applications. <i>Nanotechnology</i> , 2012, 23, 255305.	1.3	46
96	Microscopy and spectroscopy analysis of carbon nanostructures in highly fertile Amazonian anthrosoils. <i>Soil and Tillage Research</i> , 2012, 122, 61-66.	2.6	48
97	Ion beam nanopatterning and micro-Raman spectroscopy analysis on HOPG for testing FIB performances. <i>Ultramicroscopy</i> , 2011, 111, 1338-1342.	0.8	16
98	Raman Signature of Graphene Superlattices. <i>Nano Letters</i> , 2011, 11, 4527-4534.	4.5	234
99	Raman spectroscopy of graphene and carbon nanotubes. <i>Advances in Physics</i> , 2011, 60, 413-550.	35.9	797
100	Quantifying Defects in Graphene via Raman Spectroscopy at Different Excitation Energies. <i>Nano Letters</i> , 2011, 11, 3190-3196.	4.5	2,807
101	Raman Spectroscopy: Characterization of Edges, Defects, and the Fermi Energy of Graphene and sp ² Carbons. <i>Nanoscience and Technology</i> , 2011, , 15-55.	1.5	5
102	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.	0.7	6
103	On the Formation of Carbon Nanotube Serpentes: Insights from Multi-Million Atom Molecular Dynamics Simulation. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1284, 79.	0.1	1
104	Defect characterization in graphene and carbon nanotubes using Raman spectroscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 5355-5377.	1.6	571
105	Resonance Raman spectroscopy of the radial breathing modes in carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1251-1261.	1.3	110
106	Quantifying ion-induced defects and Raman relaxation length in graphene. <i>Carbon</i> , 2010, 48, 1592-1597.	5.4	1,443
107	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.	0.7	18
108	Measuring disorder in graphene with the G and D bands. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2980-2982.	0.7	190

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109	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.	0.7	1
110	Brazilian science towards a phase transition. <i>Nature Materials</i> , 2010, 9, 528-531.	13.3	5
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, .	1.5	21
112	Near-field Raman Microscopy and Spectroscopy of Carbon Nanotubes. , 2010, , .		0
113	Diameter Dependence of Dielectric Constant for the Excitonic Transition Energy of Single-Wall Carbon Nanotubes. , 2010, , .		0
114	Raman Spectroscopy to Study Disorder and Perturbations in sp ² Nano-Carbons. , 2010, , .		1
115	Nanostructured Materials: Metrology. , 2010, , 1-7.		3
116	Chemical Vapor Deposition Synthesis of N-, P-, and Si-Doped Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2010, 4, 1696-1702.	7.3	113
117	Perspectives on Carbon Nanotubes and Graphene Raman Spectroscopy. <i>Nano Letters</i> , 2010, 10, 751-758.	4.5	2,784
118	Modulating the Electronic Properties along Carbon Nanotubes via Tube~Substrate Interaction. <i>Nano Letters</i> , 2010, 10, 5043-5048.	4.5	49
119	Evolution of the Raman spectra from single-, few-, and many-layer graphene with increasing disorder. <i>Physical Review B</i> , 2010, 82, .	1.1	606
120	Highly efficient siRNA delivery system into human and murine cells using single-wall carbon nanotubes. <i>Nanotechnology</i> , 2010, 21, 385101.	1.3	77
121	Characterizing Graphene, Graphite, and Carbon Nanotubes by Raman Spectroscopy. <i>Annual Review of Condensed Matter Physics</i> , 2010, 1, 89-108.	5.2	533
122	Dielectric constant model for environmental effects on the exciton energies of single wall carbon nanotubes. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	75
123	Raman study of ion-induced defects in N-layer graphene. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 334204.	0.7	110
124	The effect of environment on the radial breathing mode of supergrowth single wall carbon nanotubes. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	24
125	Mechanism of Near-Field Raman Enhancement in One-Dimensional Systems. <i>Physical Review Letters</i> , 2009, 103, 186101.	2.9	71
126	Diameter Dependence of the Dielectric Constant for the Excitonic Transition Energy of Single-Wall Carbon Nanotubes. <i>Physical Review Letters</i> , 2009, 103, 146802.	2.9	52

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127	PHOTOLUMINESCENCE AND PHOTOLUMINESCENCE EXCITATION SPECTROSCOPY OF SEMICONDUCTING SINGLE WALL CARBON NANOTUBES. International Journal of Modern Physics B, 2009, 23, 2676-2677.	1.0	0
128	Boron, nitrogen and phosphorous substitutionally doped single-wall carbon nanotubes studied by resonance Raman spectroscopy. Physica Status Solidi (B): Basic Research, 2009, 246, 2432-2435.	0.7	21
129	Exciton energy calculations for single wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2009, 246, 2581-2585.	0.7	4
130	Raman spectroscopy study of Ar ⁺ bombardment in highly oriented pyrolytic graphite. Physica Status Solidi (B): Basic Research, 2009, 246, 2689-2692.	0.7	34
131	Biodiesel compatibility with carbon steel and HDPE parts. Fuel Processing Technology, 2009, 90, 1175-1182.	3.7	68
132	Synthesis, Electronic Structure, and Raman Scattering of Phosphorus-Doped Single-Wall Carbon Nanotubes. Nano Letters, 2009, 9, 2267-2272.	4.5	134
133	Group-theory analysis of electrons and phonons in N -layer graphene systems. Physical Review B, 2009, 79, .	1.1	154
134	The two peaks G band in carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2197-2200.	0.7	25
135	The role of environmental effects on the optical transition energies and radial breathing mode frequency of single wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2201-2204.	0.7	41
136	Measuring the degree of stacking order in graphite by Raman spectroscopy. Carbon, 2008, 46, 272-275.	5.4	358
137	Excitons and exciton-phonon coupling in metallic single-walled carbon nanotubes: Resonance Raman spectroscopy. Physical Review B, 2008, 78, .	1.1	52
138	Deformation Induced Semiconductor-Metal Transition in Single Wall Carbon Nanotubes Probed by Electric Force Microscopy. Physical Review Letters, 2008, 100, 256804.	2.9	62
139	Chapter 4 Raman spectroscopy of carbon nanotubes. Contemporary Concepts of Condensed Matter Science, 2008, 3, 83-108.	0.5	16
140	Electron and phonon renormalization near charged defects in carbon nanotubes. Nature Materials, 2008, 7, 878-883.	13.3	263
141	Nature of the constant factor in the relation between radial breathing mode frequency and tube diameter for single-wall carbon nanotubes. Physical Review B, 2008, 77, .	1.1	178
142	Visualizing the Local Optical Response of Semiconducting Carbon Nanotubes to DNA-Wrapping. Nano Letters, 2008, 8, 2706-2711.	4.5	55
143	Exciton decay dynamics in individual carbon nanotubes at room temperature. Applied Physics Letters, 2008, 92, 153116.	1.5	36
144	Decarboxylation of Oxidized Single-Wall Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2007, 7, 3421-3430.	0.9	7

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145	Atomic size-limited intercalation into single wall carbon nanotubes. <i>Nanotechnology</i> , 2007, 18, 435705.	1.3	5
146	Length characterization of DNA-wrapped carbon nanotubes using Raman spectroscopy. <i>Applied Physics Letters</i> , 2007, 90, 131109.	1.5	42
147	Resonance Raman study of polyynes encapsulated in single-wall carbon nanotubes. <i>Physical Review B</i> , 2007, 76, .	1.1	51
148	Nanometrology Links State-of-the-Art Academic Research and Ultimate Industry Needs for Technological Innovation. <i>MRS Bulletin</i> , 2007, 32, 988-993.	1.7	4
149	Third and Fourth Optical Transitions in Semiconducting Carbon Nanotubes. <i>Physical Review Letters</i> , 2007, 98, 067401.	2.9	274
150	Mechanical properties of carbon nanotube networks by molecular mechanics and impact molecular dynamics calculations. <i>Physical Review B</i> , 2007, 75, .	1.1	49
151	Chirality dependence of exciton effects in single-wall carbon nanotubes: Tight-binding model. <i>Physical Review B</i> , 2007, 75, .	1.1	208
152	Measuring the absolute Raman cross section of nanographites as a function of laser energy and crystallite size. <i>Physical Review B</i> , 2007, 76, .	1.1	234
153	Atomistic simulations of the mechanical properties of C_{60} carbon nanotubes. <i>Nanotechnology</i> , 2007, 18, 335702.	1.3	72
154	Raman Spectroscopy of Carbon Nanotubes in 1997 and 2007. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17887-17893.	1.5	251
155	Exciton-photon, exciton-phonon matrix elements, and resonant Raman intensity of single-wall carbon nanotubes. <i>Physical Review B</i> , 2007, 75, .	1.1	92
156	Characterization of DNA-wrapped carbon nanotubes by resonance Raman and optical absorption spectroscopies. <i>Chemical Physics Letters</i> , 2007, 439, 138-142.	1.2	64
157	Finite length effects in DNA-wrapped carbon nanotubes. <i>Chemical Physics Letters</i> , 2007, 443, 328-332.	1.2	10
158	Raman scattering from one-dimensional carbon systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 37, 81-87.	1.3	10
159	Optical studies of carbon nanotubes and nanographites. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 37, 88-92.	1.3	22
160	The fundamental aspects of carbon nanotube metrology. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4011-4015.	0.7	2
161	Exciton Photophysics of Carbon Nanotubes. <i>Annual Review of Physical Chemistry</i> , 2007, 58, 719-747.	4.8	201
162	Studying disorder in graphite-based systems by Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1276-1290.	1.3	3,775

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163	Introduction to the Important and Exciting Aspects of Carbon-Nanotube Science and Technology. Topics in Applied Physics, 2007, , 1-12.	0.4	18
164	Carbon-Nanotube Metrology. Topics in Applied Physics, 2007, , 63-100.	0.4	24
165	Resonance Raman study of linear carbon chains formed by the heat treatment of double-wall carbon nanotubes. Physical Review B, 2006, 73, .	1.1	85
166	Resonance Raman spectroscopy in one-dimensional carbon materials. Anais Da Academia Brasileira De Ciencias, 2006, 78, 423-439.	0.3	7
167	The Kataura plot over broad energy and diameter ranges. Physica Status Solidi (B): Basic Research, 2006, 243, 3117-3121.	0.7	36
168	Photoluminescence intensity of single-wall carbon nanotubes. Carbon, 2006, 44, 873-879.	5.4	151
169	D-band Raman intensity of graphitic materials as a function of laser energy and crystallite size. Chemical Physics Letters, 2006, 427, 117-121.	1.2	219
170	General equation for the determination of the crystallite size L_a of nanographite by Raman spectroscopy. Applied Physics Letters, 2006, 88, 163106.	1.5	2,071
171	Selection rules for one- and two-photon absorption by excitons in carbon nanotubes. Physical Review B, 2006, 73, .	1.1	48
172	Review on the symmetry-related properties of carbon nanotubes. Physics Reports, 2006, 431, 261-302.	10.3	138
173	Geometric and electronic structure of carbon nanotube networks: C^{super} -carbon nanotubes. Nanotechnology, 2006, 17, 617-621.	1.3	74
174	Electronic and Mechanical Properties of Super Carbon Nanotube Networks. Materials Research Society Symposia Proceedings, 2006, 963, 1.	0.1	0
175	Carbon nanotube population analysis from Raman and photoluminescence intensities. Applied Physics Letters, 2006, 88, 023109.	1.5	51
176	Trigonal Anisotropy in Graphite and Carbon Nanotubes. Molecular Crystals and Liquid Crystals, 2006, 455, 287-294.	0.4	1
177	Raman resonance window of single-wall carbon nanotubes. Physical Review B, 2006, 74, .	1.1	31
178	Raman characterization of electronic transition energies of metallic single-wall carbon nanotubes. Physical Review B, 2006, 74, .	1.1	32
179	Recent advances in carbon nanotube photophysics. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 443-446.	1.3	12
180	Raman spectroscopy of carbon nanotubes. Physics Reports, 2005, 409, 47-99.	10.3	3,709

#	ARTICLE	IF	CITATIONS
181	Origin of the 2450cm ⁻¹ Raman bands in HOPG, single-wall and double-wall carbon nanotubes. Carbon, 2005, 43, 1049-1054.	5.4	120
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