

Luiz G Canado

List of Publications by Citations

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91
papers

11,954
citations

39
h-index

100
g-index

100
ext. papers

13,411
ext. citations

6.2
avg, IF

6.03
L-index

#	Paper	IF	Citations
91	Studying disorder in graphite-based systems by Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1276-91	3.6	3172
90	Quantifying defects in graphene via Raman spectroscopy at different excitation energies. <i>Nano Letters</i> , 2011 , 11, 3190-6	11.5	2228
89	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
88	Influence of the atomic structure on the Raman spectra of graphite edges. <i>Physical Review Letters</i> , 2004 , 93, 247401	7.4	521
87	Raman characterization of defects and dopants in graphene. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 083002	1.8	339
86	Measuring the degree of stacking order in graphite by Raman spectroscopy. <i>Carbon</i> , 2008 , 46, 272-275	10.4	301
85	Double resonance Raman spectroscopy of single-wall carbon nanotubes. <i>New Journal of Physics</i> , 2003 , 5, 157-157	2.9	205
84	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
83	Raman signature of graphene superlattices. <i>Nano Letters</i> , 2011 , 11, 4527-34	11.5	191
82	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
81	Anisotropy of the Raman spectra of nanographite ribbons. <i>Physical Review Letters</i> , 2004 , 93, 047403	7.4	177
80	Geometrical approach for the study of G? band in the Raman spectrum of monolayer graphene, bilayer graphene, and bulk graphite. <i>Physical Review B</i> , 2008 , 77,	3.3	145
79	Stokes and anti-Stokes double resonance Raman scattering in two-dimensional graphite. <i>Physical Review B</i> , 2002 , 66,	3.3	137
78	Group theory analysis of phonons in two-dimensional transition metal dichalcogenides. <i>Physical Review B</i> , 2014 , 90,	3.3	130
77	Structural analysis of polycrystalline graphene systems by Raman spectroscopy. <i>Carbon</i> , 2015 , 95, 646-652	10.4	122
76	Tip-enhanced Raman spectroscopy of carbon nanotubes. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1420-1426	14.26	116
75	Resonance effects on the Raman spectra of graphene superlattices. <i>Physical Review B</i> , 2013 , 88,	3.3	104

74	Characterization of Few-Layer 1TTeMoTe by Polarization-Resolved Second Harmonic Generation and Raman Scattering. <i>ACS Nano</i> , 2016 , 10, 9626-9636	16.7	104
73	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
72	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
71	Raman evidence for pressure-induced formation of diamondene. <i>Nature Communications</i> , 2017 , 8, 96	17.4	94
70	Determination of two-dimensional phonon dispersion relation of graphite by Raman spectroscopy. <i>Physical Review B</i> , 2002 , 65,	3.3	91
69	Room-temperature compression-induced diamondization of few-layer graphene. <i>Advanced Materials</i> , 2011 , 23, 3014-7	24	89
68	Group theory for structural analysis and lattice vibrations in phosphorene systems. <i>Physical Review B</i> , 2015 , 91,	3.3	71
67	Raman spectroscopy of twisted bilayer graphene. <i>Solid State Communications</i> , 2013 , 175-176, 3-12	1.6	70
66	Raman scattering study of the phonon dispersion in twisted bilayer graphene. <i>Nano Research</i> , 2013 , 6, 269-274	10	70
65	Mechanism of near-field Raman enhancement in one-dimensional systems. <i>Physical Review Letters</i> , 2009 , 103, 186101	7.4	68
64	Second Harmonic Generation in WSe 2. <i>2D Materials</i> , 2015 , 2, 045015	5.9	66
63	Low temperature raman study of the electron coherence length near graphene edges. <i>Nano Letters</i> , 2011 , 11, 1177-81	11.5	57
62	Spatial coherence in near-field Raman scattering. <i>Physical Review Letters</i> , 2014 , 113, 186101	7.4	55
61	Tip-enhanced Raman mapping of local strain in graphene. <i>Nanotechnology</i> , 2015 , 26, 175702	3.4	53
60	Tuning Localized Surface Plasmon Resonance in Scanning Near-Field Optical Microscopy Probes. <i>ACS Nano</i> , 2015 , 9, 6297-304	16.7	50
59	Modulating the electronic properties along carbon nanotubes via tube-substrate interaction. <i>Nano Letters</i> , 2010 , 10, 5043-8	11.5	46
58	Mechanism of near-field Raman enhancement in two-dimensional systems. <i>Physical Review B</i> , 2012 , 85,	3.3	46
57	Localization of lattice dynamics in low-angle twisted bilayer graphene. <i>Nature</i> , 2021 , 590, 405-409	50.4	46

56	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
55	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
54	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
53	Raman spectroscopy analysis of number of layers in mass-produced graphene flakes. <i>Carbon</i> , 2020 , 161, 181-189	10.4	40
52	Two-dimensional molecular crystals of phosphonic acids on graphene. <i>ACS Nano</i> , 2011 , 5, 394-8	16.7	39
51	X-ray study of atomic ordering in self-assembled Ge islands grown on Si(001). <i>Physical Review B</i> , 2005 , 72,	3.3	39
50	Graphene nanoribbon superlattices fabricated via He ion lithography. <i>Applied Physics Letters</i> , 2014 , 104, 193114	3.4	29
49	Theory of Spatial Coherence in Near-Field Raman Scattering. <i>Physical Review X</i> , 2014 , 4,	9.1	24
48	Giant and Tunable Anisotropy of Nanoscale Friction in Graphene. <i>Scientific Reports</i> , 2016 , 6, 31569	4.9	22
47	Plasmon-Tunable Tip Pyramids: Monopole Nanoantennas for Near-Field Scanning Optical Microscopy. <i>Advanced Optical Materials</i> , 2018 , 6, 1800528	8.1	22
46	Optical studies of carbon nanotubes and nanographites. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 37, 88-92	3	22
45	Micro-Raman spectroscopy of refractive index microstructures in silicone-based hydrogel polymers created by high-repetition-rate femtosecond laser micromachining. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, 595	1.7	21
44	Nanoscale mapping of carbon oxidation in pyrogenic black carbon from ancient Amazonian anthrosoles. <i>Environmental Sciences: Processes and Impacts</i> , 2015 , 17, 775-9	4.3	20
43	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
42	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
41	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
40	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
39	Hard, transparent, sp ³ -containing 2D phase formed from few-layer graphene under compression. <i>Carbon</i> , 2021 , 173, 744-757	10.4	15

38	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
37	Optical Nanoantennas for Tip-Enhanced Raman Spectroscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 27, 1-11	3.8	14
36	Enhanced Mechanical Stability of Gold Nanotips through Carbon Nanocone Encapsulation. <i>Scientific Reports</i> , 2015 , 5, 10408	4.9	13
35	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
34	Near-field Raman spectroscopy of nanocarbon materials. <i>Faraday Discussions</i> , 2015 , 184, 193-206	3.6	10
33	Physiological changes of the lichen <i>Parmotrema tinctorum</i> as result of carbon nanotubes exposition. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 120, 110-6	7	8
32	Controlling the Morphology of Nanoflakes Obtained by Liquid-Phase Exfoliation: Implications for the Mass Production of 2D Materials. <i>ACS Applied Nano Materials</i> , 2020 , 3, 12095-12105	5.6	8
31	A semi-automated general statistical treatment of graphene systems. <i>2D Materials</i> , 2020 , 7, 025045	5.9	8
30	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
29	Raman spectroscopy polarization dependence analysis in two-dimensional gallium sulfide. <i>Physical Review B</i> , 2020 , 102,	3.3	8
28	Linkage Between Micro- and Nano-Raman Spectroscopy of Defects in Graphene. <i>Physical Review Applied</i> , 2020 , 14,	4.3	8
27	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
26	Electro-optical interfacial effects on a graphene/Conjugated organic semiconductor hybrid system. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 963-974	3	5
25	Nanofabrication of plasmon-tunable nanoantennas for tip-enhanced Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2020 , 153, 114201	3.9	5
24	Strain Discontinuity, Avalanche, and Memory in Carbon Nanotube Serpentine Systems. <i>Nano Letters</i> , 2015 , 15, 5899-904	11.5	4
23	Tip-enhanced Raman Spectroscopy of Graphene 2019 ,		4
22	Vibrations in Graphene71-89		4
21	Studying 2D materials with advanced Raman spectroscopy: CARS, SRS and TERS. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 23428-23444	3.6	4

20	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
19	Nanowires and nanoribbons formed by methylphosphonic acid. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3071-80	1.3	3
18	Tip-Enhanced Spectroscopy and Imaging of Carbon Nanomaterials. <i>World Scientific Series on Carbon Nanoscience</i> , 2019 , 175-221	0.5	3
17	Nanomechanics of few-layer materials: do individual layers slide upon folding?. <i>Beilstein Journal of Nanotechnology</i> , 2020 , 11, 1801-1808	3	3
16	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
15	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
14	Observing the Angular Distribution of Raman Scattered Fields. <i>ACS Nano</i> , 2016 , 10, 1722-3	16.7	2
13	Passive near-field imaging with pseudo-thermal sources. <i>Optics Letters</i> , 2017 , 42, 1137-1140	3	2
12	Near-field coherence reveals defect densities in atomic monolayers. <i>Optica</i> , 2017 , 4, 527	8.6	2
11	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
10	Topological vectors as a fingerprinting system for 2D-material flake distributions. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	2
9	Protocol and reference material for measuring the nanoantenna enhancement factor in Tip-enhanced Raman Spectroscopy 2019 ,		2
8	Vision-based position control applied to probe positioning for Tip Enhanced Raman Spectroscopy 2016 ,		1
7	Trigonal Anisotropy in Graphite and Carbon Nanotubes. <i>Molecular Crystals and Liquid Crystals</i> , 2006 , 455, 287-294	0.5	1
6	Study of the interaction between light and nanoantennas in Tip-Enhanced Raman Spectroscopy 2019 ,		1
5	Raman spectra of multilayer graphene under high temperatures. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 385704	1.8	0
4	The role of interference and polarization effects in the optical visualization of carbon nanotubes. <i>Journal of Applied Physics</i> , 2013 , 113, 084314	2.5	
3	Resonance Raman Spectroscopy to Study and Characterize Defects on Carbon Nanotubes and other Nano-Graphite Systems. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 858, 1		

- 2 Study of Carbon Nanostructures for Soil Fertility Improvement. *Nanomedicine and Nanotoxicology*, **2016**, 85-104 0.3
- 1 Disorder and Defects in Two-Dimensional Materials Probed by Raman Spectroscopy. *Springer Series in Materials Science*, **2019**, 99-110 0.9