# Marcos A Pimenta

List of Publications by Year
in descending order

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|---|---|---|---|
| 173 papers | 22,679 citations | 14655 66 h-index | 7950 149 g-index |
| 176 all docs | 176 docs citations | 176 times ranked | 25359 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Studying disorder in graphite-based systems by Raman spectroscopy. Physical Chemistry Chemical Physics, 2007, 9, 1276-1290. | 2.8 | 3,775 |
| 2 | General equation for the determination of the crystallite size La of nanographite by Raman spectroscopy. Applied Physics Letters, 2006, 88, 163106. | 3.3 | 2,071 |
| 3 | Characterizing carbon nanotube samples with resonance Raman scattering. New Journal of Physics, 2003, 5, 139-139. | 2.9 | 883 |
| 4 | Origin of dispersive effects of the RamanDband in carbon materials. Physical Review B, 1999, 59, R6585-R6588. | 3.2 | 871 |
| 5 | Defect engineering of two-dimensional transition metal dichalcogenides. 2D Materials, 2016, 3, 022002. | 4.4 | 736 |
| 6 | Influence of the Atomic Structure on the Raman Spectra of Graphite Edges. Physical Review Letters, 2004, 93, 247401. | 7.8 | 594 |
| 7 | Optical Transition Energies for Carbon Nanotubes from Resonant Raman Spectroscopy: Environment and Temperature Effects. Physical Review Letters, 2004, 93, 147406. | 7.8 | 567 |
| 8 | Effect of disorder on Raman scattering of single-layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 91, . | 3.2 | 553 |
| 9 | Probing Phonon Dispersion Relations of Graphite by Double Resonance Raman Scattering. Physical Review Letters, 2001, 88, 027401. | 7.8 | 494 |
| 10 | Local Polar Fluctuations in Lead Halide Perovskite Crystals. Physical Review Letters, 2017, 118, 136001. | 7.8 | 489 |
| 11 | G-band resonant Raman study of 62 isolated single-wall carbon nanotubes. Physical Review B, 2002, 65, . | 3.2 | 430 |
| 12 | Raman modes of metallic carbon nanotubes. Physical Review B, 1998, 58, R16016-R16019. | 3.2 | 385 |
| 13 | New First Order Raman-active Modes in Few Layered Transition Metal Dichalcogenides. Scientific Reports, 2014, 4, 4215. | 3.3 | 367 |
| 14 | Measuring the degree of stacking order in graphite by Raman spectroscopy. Carbon, 2008, 46, 272-275. | 10.3 | 358 |
| 15 | Polarized Raman Study of Aligned Multiwalled Carbon Nanotubes. Physical Review Letters, 2000, 84, 1820-1823. | 7.8 | 345 |
| 16 | Probing the electronic structure of bilayer graphene by Raman scattering. Physical Review B, 2007, 76, . | 3.2 | 303 |
| 17 | Unusual Angular Dependence of the Raman Response in Black Phosphorus. ACS Nano, 2015, 9, 4270-4276. | 14.6 | 301 |
| 18 | Third and Fourth Optical Transitions in Semiconducting Carbon Nanotubes. Physical Review Letters, 2007, 98, 067401. | 7.8 | 274 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Electron and phonon renormalization near charged defects in carbon nanotubes. Nature Materials, 2008, 7, 878-883. | 27.5 | 263 |
| 20 | Inhomogeneous optical absorption around theKpoint in graphite and carbon nanotubes. Physical Review B, 2003, 67, . | 3.2 | 257 |
| 21 | Single Nanotube Raman Spectroscopy. Accounts of Chemical Research, 2002, 35, 1070-1078. | 15.6 | 234 |
| 22 | Measuring the absolute Raman cross section of nanographites as a function of laser energy and crystallite size. Physical Review B, 2007, 76, . | 3.2 | 234 |
| 23 | Double resonance Raman spectroscopy of single-wall carbon nanotubes. New Journal of Physics, 2003, 5, 157-157. | 2.9 | 229 |
| 24 | Resonance Raman spectroscopy(n,m)-dependent effects in small-diameter single-wall carbon nanotubes. Physical Review B, 2005, 71, . | 3.2 | 225 |
| 25 | Polarized Raman Study of Single-Wall Semiconducting Carbon Nanotubes. Physical Review Letters, 2000, 85, 2617-2620. | 7.8 | 221 |
| 26 | Excited Excitonic States in 1L, 2L, 3L, and Bulk WSe<sub>2</sub> Observed by Resonant Raman Spectroscopy. ACS Nano, 2014, 8, 9629-9635. | 14.6 | 207 |
| 27 | Intervalley scattering by acoustic phonons in two-dimensional MoS2 revealed by double-resonance Raman spectroscopy. Nature Communications, 2017, 8, 14670. | 12.8 | 196 |
| 28 | Anisotropy of the Raman Spectra of Nanographite Ribbons. Physical Review Letters, 2004, 93, 047403. | 7.8 | 195 |
| 29 | Linewidth of the Raman features of individual single-wall carbon nanotubes. Physical Review B, 2002, 66, . | 3.2 | 181 |
| 30 | 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, . | 3.2 | 178 |
| 31 | Symmetry-Dependent Exciton-Phonon Coupling in 2D and Bulk<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> by Resonance Raman Scattering. Physical Review Letters, 2015, 114, 136403. | 7.8 | 177 |
| 32 | Ultrasensitive molecular sensor using N-doped graphene through enhanced Raman scattering. Science Advances, 2016, 2, e1600322. | 10.3 | 174 |
| 33 | Determination of LA and TO phonon dispersion relations of graphene near the Dirac point by double resonance Raman scattering. Physical Review B, 2007, 76, . | 3.2 | 168 |
| 34 | Single Nanotube Raman Spectroscopy. ChemInform, 2003, 34, no. | 0.0 | 160 |
| 35 | Charge-Transfer Mechanism in Graphene-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2012, 116, 25112-25118. | 3.1 | 154 |
| 36 | Quantifying carbon-nanotube species with resonance Raman scattering. Physical Review B, 2005, 72, . | 3.2 | 153 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Stokes and anti-Stokes double resonance Raman scattering in two-dimensional graphite. Physical Review B, 2002, 66, . | 3.2 | 152 |
| 38 | Joint density of electronic states for one isolated single-wall carbon nanotube studied by resonant Raman scattering. Physical Review B, 2001, 63, . | 3.2 | 149 |
| 39 | Comparative Study of Raman Spectroscopy in Graphene and MoS<sub>2</sub>-type Transition Metal Dichalcogenides. Accounts of Chemical Research, 2015, 48, 41-47. | 15.6 | 143 |
| 40 | Synthesis, Electronic Structure, and Raman Scattering of Phosphorus-Doped Single-Wall Carbon Nanotubes. Nano Letters, 2009, 9, 2267-2272. | 9.1 | 134 |
| 41 | Anti-Stokes Raman spectra of single-walled carbon nanotubes. Physical Review B, 2000, 61, R5137-R5140. | 3.2 | 132 |
| 42 | Optical characterization of DNA-wrapped carbon nanotube hybrids. Chemical Physics Letters, 2004, 397, 296-301. | 2.6 | 129 |
| 43 | Resonance Raman Spectra of Carbon Nanotubes by Cross-Polarized Light. Physical Review Letters, 2003, 90, 107403. | 7.8 | 124 |
| 44 | Observation of Distinct Electron-Phonon Couplings in Gated Bilayer Graphene. Physical Review Letters, 2008, 101, 257401. | 7.8 | 122 |
| 45 | Origin of the 2450cmâˆ’1 Raman bands in HOPG, single-wall and double-wall carbon nanotubes. Carbon, 2005, 43, 1049-1054. | 10.3 | 120 |
| 46 | Atypical Excitonâ€“Phonon Interactions in WS<sub>2</sub> and WSe<sub>2</sub> Monolayers Revealed by Resonance Raman Spectroscopy. Nano Letters, 2016, 16, 2363-2368. | 9.1 | 118 |
| 47 | The Concept of Cutting Lines in Carbon Nanotube Science. Journal of Nanoscience and Nanotechnology, 2003, 3, 431-458. | 0.9 | 115 |
| 48 | Raman spectroscopy in black phosphorus. Journal of Raman Spectroscopy, 2018, 49, 76-90. | 2.5 | 115 |
| 49 | Chemical Vapor Deposition Synthesis of N-, P-, and Si-Doped Single-Walled Carbon Nanotubes. ACS Nano, 2010, 4, 1696-1702. | 14.6 | 113 |
| 50 | Diameter dependence of the RamanD-band in isolated single-wall carbon nanotubes. Physical Review B, 2001, 64, . | 3.2 | 112 |
| 51 | Phonon-Assisted Excitonic Recombination Channels Observed in DNA-Wrapped Carbon Nanotubes Using Photoluminescence Spectroscopy. Physical Review Letters, 2005, 94, 127402. | 7.8 | 110 |
| 52 | Direct Experimental Evidence of Exciton-Phonon Bound States in Carbon Nanotubes. Physical Review Letters, 2005, 95, 247401. | 7.8 | 101 |
| 53 | Determination of two-dimensional phonon dispersion relation of graphite by Raman spectroscopy. Physical Review B, 2002, 65, . | 3.2 | 99 |
| 54 | Intralayer and interlayer electronâ€“phonon interactions in twisted graphene heterostructures. Nature Communications, 2018, 9, 1221. | 12.8 | 93 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Oxidized Multiwalled Carbon Nanotubes as Antigen Delivery System to Promote Superior CD8<sup>+</sup> T Cell Response and Protection against Cancer. Nano Letters, 2014, 14, 5458-5470. | 9.1 | 92 |
| 56 | Strain Engineering and Raman Spectroscopy of Monolayer Transition Metal Dichalcogenides. Chemistry of Materials, 2018, 30, 5148-5155. | 6.7 | 92 |
| 57 | Surface-enhanced resonant Raman spectroscopy of single-wall carbon nanotubes adsorbed on silver and gold surfaces. Physical Review B, 2000, 61, 13202-13211. | 3.2 | 90 |
| 58 | Competing spring constant versus double resonance effects on the properties of dispersive modes in isolated single-wall carbon nanotubes. Physical Review B, 2003, 67, . | 3.2 | 88 |
| 59 | Interplay between organic cations and inorganic framework and incommensurability in hybrid lead-halide perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CH</mml:mi><mml:mn>3</mml:mn></mml: Physical Review Materials, 2017, 1, . | 2.4 | 87 |
| 60 | Resonant Raman spectroscopy of graphene grown on copper substrates. Solid State Communications, 2012, 152, 1317-1320. | 1.9 | 86 |
| 61 | Resonance Raman study of linear carbon chains formed by the heat treatment of double-wall carbon nanotubes. Physical Review B, 2006, 73, . | 3.2 | 85 |
| 62 | Electronic transition energyEiifor an isolated(n,m)single-wall carbon nanotube obtained by anti-Stokes/Stokes resonant Raman intensity ratio. Physical Review B, 2001, 63, . | 3.2 | 84 |
| 63 | Anomalous two-peakGâ€²-band Raman effect in one isolated single-wall carbon nanotube. Physical Review B, 2002, 65, . | 3.2 | 76 |
| 64 | Resonant Raman spectroscopy and spectroelectrochemistry characterization of carbon nanotubes/polyaniline thin film obtained through interfacial polymerization. Journal of Raman Spectroscopy, 2012, 43, 1094-1100. | 2.5 | 73 |
| 65 | Edge phonons in black phosphorus. Nature Communications, 2016, 7, 12191. | 12.8 | 70 |
| 66 | Temperature effects on the vibronic spectra of BEHâ€“PPV conjugated polymer films. Journal of Chemical Physics, 2003, 119, 9777-9782. | 3.0 | 68 |
| 67 | Graphene MoirÃ© patterns observed by umklapp double-resonance Raman scattering. Physical Review B, 2011, 84, . | 3.2 | 66 |
| 68 | Second-order resonant Raman spectra of single-walled carbon nanotubes. Physical Review B, 2000, 61, 7734-7742. | 3.2 | 65 |
| 69 | Characterization of DNA-wrapped carbon nanotubes by resonance Raman and optical absorption spectroscopies. Chemical Physics Letters, 2007, 439, 138-142. | 2.6 | 64 |
| 70 | Phonon Trigonal Warping Effect in Graphite and Carbon Nanotubes. Physical Review Letters, 2003, 90, 027403. | 7.8 | 62 |
| 71 | One-Dimensional Character of Combination Modes in the Resonance Raman Scattering of Carbon Nanotubes. Physical Review Letters, 2004, 93, 087401. | 7.8 | 61 |
| 72 | The anomalous dispersion of the disorder-induced and the second-order Raman Bands in Carbon Nanotubes. Brazilian Journal of Physics, 2000, 30, 423-427. | 1.4 | 60 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Steplike dispersion of the intermediate-frequency Raman modes in semiconducting and metallic carbon nanotubes. Physical Review B, 2005, 72, . | 3.2 | 57 |
| 74 | High-temperature phase transitions inLiKSO4. Physical Review B, 1989, 39, 3361-3368. | 3.2 | 55 |
| 75 | Carbon nanotube population analysis from Raman and photoluminescence intensities. Applied Physics Letters, 2006, 88, 023109. | 3.3 | 51 |
| 76 | Resonance Raman study of polyynes encapsulated in single-wall carbon nanotubes. Physical Review B, 2007, 76, . | 3.2 | 51 |
| 77 | Two-Phonon Combination Raman Modes in Covalently Functionalized Single-Wall Carbon Nanotubes. Journal of Physical Chemistry C, 2008, 112, 13150-13155. | 3.1 | 49 |
| 78 | Single- and double-resonance RamanG-band processes in carbon nanotubes. Physical Review B, 2004, 69, . | 3.2 | 48 |
| 79 | Effect of quantized electronic states on the dispersive Raman features in individual single-wall carbon nanotubes. Physical Review B, 2001, 65, . | 3.2 | 46 |
| 80 | Study of Correlations between Microstructure and Conductivity in a Thermoplastic Polyurethane Electrolyte. Journal of Physical Chemistry B, 1999, 103, 7102-7110. | 2.6 | 45 |
| 81 | Optical properties of Bi12SiO20 (BSO) and Bi12TiO20 (BTO) obtained by mechanical alloying. Journal of Materials Science, 2001, 36, 587-592. | 3.7 | 45 |
| 82 | High-pressure Raman spectra ofL-threonine crystal. Journal of Raman Spectroscopy, 2000, 31, 519-522. | 2.5 | 36 |
| 83 | Micro-Raman investigation of aligned single-wall carbon nanotubes. Physical Review B, 2001, 63, . | 3.2 | 36 |
| 84 | The Kataura plot over broad energy and diameter ranges. Physica Status Solidi (B): Basic Research, 2006, 243, 3117-3121. | 1.5 | 36 |
| 85 | Thermal enhancement of chemical doping in graphene: a Raman spectroscopy study. Journal of Physics Condensed Matter, 2010, 22, 334202. | 1.8 | 36 |
| 86 | Raman Scattering in Fullerenes and Related Carbon-Based Materials. Springer Series in Materials Science, 2000, , 314-364. | 0.6 | 35 |
| 87 | Nonlinear Dark-Field Imaging of One-Dimensional Defects in Monolayer Dichalcogenides. Nano Letters, 2020, 20, 284-291. | 9.1 | 34 |
| 88 | Raman scattering study of RETiTaO6 dielectric ceramics. Journal of the European Ceramic Society, 2003, 23, 2661-2666. | 5.7 | 33 |
| 89 | Charge transfer and screening effects in polyynes encapsulated inside single-wall carbon nanotubes. Physical Review B, 2009, 80, . | 3.2 | 33 |
| 90 | Origin of van Hove singularities in twisted bilayer graphene. Carbon, 2015, 90, 138-145. | 10.3 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Observation of the Kohn anomaly near the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi></mml:math>point of bilayer graphene. Physical Review B, 2009, 80, . | 3.2 | 32 |
| 92 | OH/F substitution in topaz studied by Raman spectroscopy. Physical Review B, 2002, 65, . | 3.2 | 28 |
| 93 | Low-temperature sequence of phase transitions inLiKSO4studied by EPR. Physical Review B, 1992, 45, 5163-5170. | 3.2 | 25 |
| 94 | The two peaks Gâ€² band in carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2197-2200. | 1.5 | 25 |
| 95 | The influence of oxygen-containing functional groups on the dispersion of single-walled carbon nanotubes in amide solvents. Journal of Physics Condensed Matter, 2010, 22, 334222. | 1.8 | 25 |
| 96 | Resonant Raman spectroscopy on enriched 13C carbon nanotubes. Carbon, 2011, 49, 4719-4723. | 10.3 | 25 |
| 97 | Resonance Raman spectroscopy in twisted bilayer graphene. Solid State Communications, 2013, 175-176, 13-17. | 1.9 | 24 |
| 98 | Strain-induced D band observed in carbon nanotubes. Nano Research, 2012, 5, 854-862. | 10.4 | 23 |
| 99 | Analysis of LiKSO4 crystals in the temperature range from 573 to 943â€…K. Acta Crystallographica Section B: Structural Science, 2000, 56, 607-617. | 1.8 | 22 |
| 100 | Optical studies of carbon nanotubes and nanographites. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 37, 88-92. | 2.7 | 22 |
| 101 | Tunable Raman spectroscopy study of CVD and peapod-derived bundled and individual double-wall carbon nanotubes. Physical Review B, 2010, 82, . | 3.2 | 22 |
| 102 | Characterizing intrinsic charges in top gated bilayer graphene device by Raman spectroscopy. Carbon, 2012, 50, 3435-3439. | 10.3 | 22 |
| 103 | Edge phonons in layered orthorhombic GeS and GeSe monochalcogenides. Physical Review B, 2019, 100, . | 3.2 | 22 |
| 104 | Resonance Raman spectroscopy in semiconducting transition-metal dichalcogenides: basic properties and perspectives. 2D Materials, 2020, 7, 042001. | 4.4 | 22 |
| 105 | Basal-plane incommensurate phases in hexagonal-close-packed structures. Physical Review B, 1998, 57, 5086-5092. | 3.2 | 21 |
| 106 | First and Second-Order Resonance Raman Process in Graphite and Single Wall Carbon Nanotubes. Japanese Journal of Applied Physics, 2002, 41, 4878-4882. | 1.5 | 21 |
| 107 | Boron, nitrogen and phosphorous substitutionally doped singleâ€wall carbon nanotubes studied by resonance Raman spectroscopy. Physica Status Solidi (B): Basic Research, 2009, 246, 2432-2435. | 1.5 | 21 |
| 108 | Phase separation, fluid mixing, and origin of the greisens and potassic episyenite associated with the Água Boa pluton, Pitinga tin province, Amazonian Craton, Brazil. Journal of South American Earth Sciences, 2009, 27, 161-183. | 1.4 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Twisted bilayer graphene photoluminescence emission peaks at van Hove singularities. Journal of Physics Condensed Matter, 2018, 30, 175302. | 1.8 | 21 |
| 110 | Influence of thermal treatment on the Raman, infrared and TL responses of natural topaz. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 230-235. | 1.4 | 20 |
| 111 | Probing carbon isotope effects on the Raman spectra of graphene with different<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>13</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>concentrations. Physical Review B, 2015, 92, . | 3.2 | 20 |
| 112 | X-ray study of the ferroelastic incommensurate phase ofLiKSO4under uniaxial pressure. Physical Review B, 1996, 54, 11869-11872. | 3.2 | 19 |
| 113 | Characterization of commercial double-walled carbon nanotube material: composition, structure, and heat capacity. Journal of Materials Science, 2009, 44, 3498-3503. | 3.7 | 19 |
| 114 | Advances in single nanotube spectroscopy: Raman spectra from cross-polarized light and chirality dependence of Raman frequencies. Carbon, 2004, 42, 1067-1069. | 10.3 | 18 |
| 115 | Raman excitation profile of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>G</mml:mi></mml:math>band in single-chirality carbon nanotubes. Physical Review B, 2014, 89, . | 3.2 | 17 |
| 116 | Suppression of the commensurate charge density wave phase in ultrathin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi></mml:mrow><mml:m evidenced by Raman hyperspectral analysis. Physical Review B, 2019, 100, . | 3.2 | 17 |
| 117 | Electronic properties of bilayer graphene probed by Resonance Raman Scattering. Physica Status Solidi (B): Basic Research, 2008, 245, 2060-2063. | 1.5 | 16 |
| 118 | Temperature dependence of the doubleâ€resonance Raman bands in monolayer <scp>MoS<sub>2</sub></scp>. Journal of Raman Spectroscopy, 2019, 50, 1867-1874. | 2.5 | 15 |
| 119 | The effects of salt concentration on cation complexation in triblock-polyether electrolyte. Physical Chemistry Chemical Physics, 2003, 5, 2424. | 2.8 | 14 |
| 120 | Polarized Raman spectroscopy in low-symmetry 2D materials: angle-resolved experiments and complex number tensor elements. Physical Chemistry Chemical Physics, 2021, 23, 27103-27123. | 2.8 | 14 |
| 121 | Anomalous behavior of the internal stretching modes above and below the incommensurate phase transition ofCs2HgBr4. Physical Review B, 1998, 57, 203-210. | 3.2 | 13 |
| 122 | High-temperature phase transitions in incommensurate Rb2WO4. Journal of Physics Condensed Matter, 2000, 12, 9307-9315. | 1.8 | 13 |
| 123 | Rapid fabrication of bilayer graphene devices using direct laser writing photolithography. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, . | 1.2 | 13 |
| 124 | Thermoplastic Polyurethane Nanocomposites Produced via Impregnation of Long Carbon Nanotube Forests. Macromolecular Materials and Engineering, 2011, 296, 53-58. | 3.6 | 13 |
| 125 | Isotopic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>13</mml:mn></mml:msup></mml:math>C/<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>12</mml:mn></mml:msup></mml:math>C effect on the resonant Raman spectrum of twisted bilayer graphene. Physical Review B, 2013, 88, . | 3.2 | 13 |
| 126 | The double-resonance Raman spectra in single-chirality (n, m) carbon nanotubes. Carbon, 2017, 117, 41-45. | 10.3 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Structural Analysis of Cs2HgBr4 in Normal, Incommensurate and Twinned Phases. Acta Crystallographica Section B: Structural Science, 1998, 54, 197-203. | 1.8 | 12 |
| 128 | Resonant Raman study of polyparaphenylene-based carbons. Journal of Materials Research, 1999, 14, 1124-1131. | 2.6 | 12 |
| 129 | Origin of the complex Raman tensor elements in single-layer triclinic ReSe2. 2D Materials, 2021, 8, 025002. | 4.4 | 12 |
| 130 | Dielectric screening in polyynes encapsulated inside double-wall carbon nanotubes. Physical Review B, 2011, 83, . | 3.2 | 11 |
| 131 | Multiple-excitation study of the double-resonance Raman bands in rhombohedral graphite. Carbon, 2021, 179, 683-691. | 10.3 | 11 |
| 132 | Study of the overtones and combination bands in the Raman spectra of polyparaphenylene-based carbons. Journal of Materials Research, 1999, 14, 3447-3454. | 2.6 | 10 |
| 133 | Controlled Growth and Positioning of Metal Nanoparticles via Scanning Probe Microscopy. Langmuir, 2009, 25, 3356-3358. | 3.5 | 10 |
| 134 | Investigation of the electronic nonlinear refraction index of single-wall carbon nanotubes wrapped with different surfactants. Optical Materials Express, 2012, 2, 749. | 3.0 | 9 |
| 135 | Dramatic increase in the Raman signal of functional groups on carbon nanotube surfaces. Carbon, 2013, 56, 235-242. | 10.3 | 9 |
| 136 | Raman Excitation Profile of the G-band Enhancement in Twisted Bilayer Graphene. Brazilian Journal of Physics, 2017, 47, 589-593. | 1.4 | 9 |
| 137 | Raman Spectroscopy of Twisted Bilayer Graphene. Journal of Carbon Research, 2021, 7, 10. | 2.7 | 9 |
| 138 | Raman scattering study of the orthorhombic-to-tetragonal phase transition of aLi3ThF7crystal. Physical Review B, 1999, 60, 9983-9989. | 3.2 | 8 |
| 139 | Raoet al.Reply:. Physical Review Letters, 2000, 85, 3545-3545. | 7.8 | 7 |
| 140 | Resonance Raman spectroscopy in one-dimensional carbon materials. Anais Da Academia Brasileira De Ciencias, 2006, 78, 423-439. | 0.8 | 7 |
| 141 | Decarboxylation of Oxidized Single-Wall Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2007, 7, 3421-3430. | 0.9 | 7 |
| 142 | Singleâ€wall carbon nanotube interactions with copperâ€oxamato building block of moleculeâ€based magnets probed by resonance Raman spectroscopy. Journal of Raman Spectroscopy, 2012, 43, 1951-1956. | 2.5 | 7 |
| 143 | History and National Initiatives of Carbon Nanotube and Graphene Research in Brazil. Brazilian Journal of Physics, 2019, 49, 288-300. | 1.4 | 7 |
| 144 | Probing combinations of acoustic phonons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> by intervalley double-resonance Raman scattering. Physical Review B, 2021, 103, . | 3.2 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Resonance Raman enhancement by the intralayer and interlayer electronâ€“phonon processes in twisted bilayer graphene. Scientific Reports, 2021, 11, 17206. | 3.3 | 7 |
| 146 | Raman study of crystals. Journal of Physics Condensed Matter, 1997, 9, 7903-7912. | 1.8 | 6 |
| 147 | Cation environment in polyether complexes based on poly(tetramethylene glycol) doped with zinc and cobalt chlorides. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 2572-2580. | 2.1 | 6 |
| 148 | Multiple excitations and temperature study of the disorder-induced Raman bands in MoS<sub>2</sub>. 2D Materials, 2021, 8, 035042. | 4.4 | 6 |
| 149 | Experimental evidence for the high-temperature incommensurate structure inLiKSO4. Physical Review B, 2002, 66, . | 3.2 | 5 |
| 150 | Atomic size-limited intercalation into single wall carbon nanotubes. Nanotechnology, 2007, 18, 435705. | 2.6 | 5 |
| 151 | Resonant Raman scattering of anthraceneâ€based carbons in the secondary carbonization stage. Journal of Raman Spectroscopy, 2021, 52, 670-677. | 2.5 | 5 |
| 152 | Effects of dimensionality and excitation energy on the Raman tensors of triclinic ReSe<sub>2</sub>. Journal of Raman Spectroscopy, 2021, 52, 2068-2080. | 2.5 | 5 |
| 153 | Visible Out-of-plane Polarized Luminescence and Electronic Resonance in Black Phosphorus. Nano Letters, 2022, , . | 9.1 | 5 |
| 154 | Infrared study of the low-temperature phase transitions in incommensurateCs2HgBr4. Physical Review B, 1999, 59, 11251-11256. | 3.2 | 4 |
| 155 | Resonance Raman scattering: nondestructive and noninvasive technique for structural and electronic characterization of isolated single-wall carbon nanotubes. Brazilian Journal of Physics, 2002, 32, 921-924. | 1.4 | 4 |
| 156 | The fundamental aspects of carbon nanotube metrology. Physica Status Solidi (B): Basic Research, 2007, 244, 4011-4015. | 1.5 | 2 |
| 157 | Agglomeration defects on irradiated carbon nanotubes. AIP Advances, 2012, 2, 012174. | 1.3 | 2 |
| 158 | Characterization of Polyparaphenylene Subjected to Different Heat Treatment Temperatures. Materials Research Society Symposia Proceedings, 1997, 488, 515. | 0.1 | 1 |
| 159 | Polar domain walls and orientational disorder in incommensurate Cs2HgBr4. Ferroelectrics, 1999, 221, 79-84. | 0.6 | 1 |
| 160 | G-band Raman Spectra of Isolated Single Wal Carbon Nanotubes: Diameter and Chiraity Dependence. Materials Research Society Symposia Proceedings, 2001, 706, 1. | 0.1 | 1 |
| 161 | Resonance Raman Spectroscopy to Study and Characterize Defects on Carbon Nanotubes and other Nano-Graphite Systems. Materials Research Society Symposia Proceedings, 2004, 858, 1. | 0.1 | 1 |
| 162 | High temperature structures of LiKSO4 crystals: normal and incommensurate phases. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, 737-741. | 0.8 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Intermediate Frequency Raman Modes in Metallic and Semiconducting Carbon Nanotubes. AIP Conference Proceedings, 2005, , . | 0.4 | 1 |
| 164 | Trigonal Anisotropy in Graphite and Carbon Nanotubes. Molecular Crystals and Liquid Crystals, 2006, 455, 287-294. | 0.9 | 1 |
| 165 | Sorting of singleâ€walled carbon nanotubes by amphiphiles molecules adsorption studied by resonant Raman excitation profile. Physica Status Solidi (B): Basic Research, 2009, 246, 2444-2447. | 1.5 | 1 |
| 166 | Enhanced hot luminescence at van Hove singularities in twisted bilayer graphene. , 2017, , . | | 1 |
| 167 | Interaction of Silver Nanoparticles with Bilayer Graphene: A Raman Study. Brazilian Journal of Physics, 2022, 52, . | 1.4 | 1 |
| 168 | Resonant Raman Characterization of Polyparaphenylene Based Carbon Materials. Materials Research Society Symposia Proceedings, 1998, 548, 15. | 0.1 | 0 |
| 169 | Anisotropy in the Phonon Dispersion Relations of Graphite and Carbon Nanotubes Measured by Raman Spectroscopy. Materials Research Society Symposia Proceedings, 2002, 737, 652. | 0.1 | 0 |
| 170 | Percolation model for structural phase transitions inLi1â^'xHxIO3mixed crystals. Physical Review B, 2004, 69, . | 3.2 | 0 |
| 171 | Structural and Dynamical Aspects of Structural Phase Transitions on Incommensurate A2BX4compounds. Ferroelectrics, 2004, 305, 75-78. | 0.6 | 0 |
| 172 | Spectroscopy of small diameter single-wall carbon nanotubes. AIP Conference Proceedings, 2005, , . | 0.4 | 0 |
| 173 | PHOTOLUMINESCENCE AND PHOTOLUMINESCENCE EXCITATION SPECTROSCOPY OF SEMICONDUCTING SINGLE WALL CARBON NANOTUBES. International Journal of Modern Physics B, 2009, 23, 2676-2677. | 2.0 | 0 |