# Antonio Gomes de Souza Filho

List of Publications by Year
in descending order

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|---|---|---|---|
| 288 papers | 14,449 citations | 20817 60 h-index | 23533 111 g-index |
| 290 all docs | 290 docs citations | 290 times ranked | 15948 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Raman spectroscopy on isolated single wall carbon nanotubes. Carbon, 2002, 40, 2043-2061. | 10.3 | 1,288 |
| 2 | Characterizing carbon nanotube samples with resonance Raman scattering. New Journal of Physics, 2003, 5, 139-139. | 2.9 | 883 |
| 3 | Defect characterization in graphene and carbon nanotubes using Raman spectroscopy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 5355-5377. | 3.4 | 571 |
| 4 | Probing Phonon Dispersion Relations of Graphite by Double Resonance Raman Scattering. Physical Review Letters, 2001, 88, 027401. | 7.8 | 494 |
| 5 | G-band resonant Raman study of 62 isolated single-wall carbon nanotubes. Physical Review B, 2002, 65, . | 3.2 | 430 |
| 6 | Anti-adhesion and antibacterial activity of silver nanoparticles supported on graphene oxide sheets. Colloids and Surfaces B: Biointerfaces, 2014, 113, 115-124. | 5.0 | 342 |
| 7 | Inhomogeneous optical absorption around theKpoint in graphite and carbon nanotubes. Physical Review B, 2003, 67, . | 3.2 | 257 |
| 8 | Single Nanotube Raman Spectroscopy. Accounts of Chemical Research, 2002, 35, 1070-1078. | 15.6 | 234 |
| 9 | Double resonance Raman spectroscopy of single-wall carbon nanotubes. New Journal of Physics, 2003, 5, 157-157. | 2.9 | 229 |
| 10 | Nanowires and nanotubes. Materials Science and Engineering C, 2003, 23, 129-140. | 7.3 | 198 |
| 11 | Optimized graphene transfer: Influence of polymethylmethacrylate (PMMA) layer concentration and baking time on graphene final performance. Carbon, 2015, 84, 82-90. | 10.3 | 187 |
| 12 | Linewidth of the Raman features of individual single-wall carbon nanotubes. Physical Review B, 2002, 66, . | 3.2 | 181 |
| 13 | Optical properties of Sm3+ doped lead fluoroborate glasses. Journal of Physics and Chemistry of Solids, 2000, 61, 1535-1542. | 4.0 | 166 |
| 14 | Single Nanotube Raman Spectroscopy. ChemInform, 2003, 34, no. | 0.0 | 160 |
| 15 | Physical properties of low-dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>s</mml:mi><mml:mi>p</mml:mi></mml:mrow><mml:mrow><mml:mn> carbon nanostructures. Reviews of Modern Physics, 2016, 88, . | 45.6 | 160 |
| 16 | 1,2-Dichlorobenzene Interacting with Carbon Nanotubes. Nano Letters, 2004, 4, 1285-1288. | 9.1 | 153 |
| 17 | Stokes and anti-Stokes double resonance Raman scattering in two-dimensional graphite. Physical Review B, 2002, 66, . | 3.2 | 152 |
| 18 | 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 |

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| 19 | Raman spectroscopy for probing chemically/physically induced phenomena in carbon nanotubes. Nanotechnology, 2003, 14, 1130-1139. | 2.6 | 143 |
| 20 | Raman spectroscopy of graphitic foams. Physical Review B, 2005, 71, . | 3.2 | 138 |
| 21 | Review on the symmetry-related properties of carbon nanotubes. Physics Reports, 2006, 431, 261-302. | 25.6 | 138 |
| 22 | Thermal decomposition and structural reconstruction effect on Mgâ€“Fe-based hydrotalcite compounds. Journal of Solid State Chemistry, 2004, 177, 3058-3069. | 2.9 | 137 |
| 23 | Raman evidence for pressure-induced formation of diamondene. Nature Communications, 2017, 8, 96. | 12.8 | 132 |
| 24 | Nanostructured silver vanadate as a promising antibacterial additive to water-based paints. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 935-940. | 3.3 | 129 |
| 25 | Chemical doping-induced gap opening and spin polarization in graphene. Physical Review B, 2008, 77, . | 3.2 | 128 |
| 26 | Resonance effects on the Raman spectra of graphene superlattices. Physical Review B, 2013, 88, . | 3.2 | 128 |
| 27 | Polarized resonant Raman study of isolated single-wall carbon nanotubes: Symmetry selection rules, dipolar and multipolar antenna effects. Physical Review B, 2002, 65, . | 3.2 | 124 |
| 28 | Resonance Raman Spectra of Carbon Nanotubes by Cross-Polarized Light. Physical Review Letters, 2003, 90, 107403. | 7.8 | 124 |
| 29 | Second-order harmonic and combination modes in graphite, single-wall carbon nanotube bundles, and isolated single-wall carbon nanotubes. Physical Review B, 2002, 66, . | 3.2 | 118 |
| 30 | The Concept of Cutting Lines in Carbon Nanotube Science. Journal of Nanoscience and Nanotechnology, 2003, 3, 431-458. | 0.9 | 115 |
| 31 | Diameter dependence of the RamanD-band in isolated single-wall carbon nanotubes. Physical Review B, 2001, 64, . | 3.2 | 112 |
| 32 | Raman Studies of Carbon Nanostructures. Annual Review of Materials Research, 2016, 46, 357-382. | 9.3 | 112 |
| 33 | Pressure-induced structural phase transitions and amorphization in selected molybdates and tungstates. Progress in Materials Science, 2012, 57, 1335-1381. | 32.8 | 106 |
| 34 | Raman scattering study of thePbZr1â^'xTixO3system: Rhombohedral-monoclinic-tetragonal phase transitions. Physical Review B, 2002, 66, . | 3.2 | 99 |
| 35 | Determination of two-dimensional phonon dispersion relation of graphite by Raman spectroscopy. Physical Review B, 2002, 65, . | 3.2 | 99 |
| 36 | Stokes and anti-Stokes Raman spectra of small-diameter isolated carbon nanotubes. Physical Review B, 2004, 69, . | 3.2 | 98 |

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| 37 | Alkali metal intercalated titanate nanotubes: A vibrational spectroscopy study. Vibrational Spectroscopy, 2011, 55, 183-187. | 2.2 | 95 |
| 38 | Development of nanostructured silver vanadates decorated with silver nanoparticles as a novel antibacterial agent. Nanotechnology, 2010, 21, 185102. | 2.6 | 93 |
| 39 | Unveiling the structure and composition of titanium oxide nanotubes through ion exchange chemical reactions and thermal decomposition processes. Journal of the Brazilian Chemical Society, 2006, 17, 393-402. | 0.6 | 90 |
| 40 | 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 |
| 41 | Ab initio study of covalently functionalized carbon nanotubes. Chemical Physics Letters, 2006, 430, 71-74. | 2.6 | 86 |
| 42 | 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 |
| 43 | Unveiling the Role of Oxidation Debris on the Surface Chemistry of Graphene through the Anchoring of Ag Nanoparticles. Chemistry of Materials, 2012, 24, 4080-4087. | 6.7 | 84 |
| 44 | Switching on magnetism in Ni-doped graphene: Density functional calculations. Physical Review B, 2008, 78, . | 3.2 | 83 |
| 45 | Structural properties of CaCu3Ti4O12 obtained by mechanical alloying. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 96, 275-283. | 3.5 | 81 |
| 46 | Raman Spectra in Vanadate Nanotubes Revisited. Nano Letters, 2004, 4, 2099-2104. | 9.1 | 81 |
| 47 | Pressure-Induced Collapse in Double-Walled Carbon Nanotubes: Chemical and Mechanical Screening Effects. Journal of Physical Chemistry C, 2011, 115, 5378-5384. | 3.1 | 79 |
| 48 | Interband optical transitions in left- and right-handed single-wall carbon nanotubes. Physical Review B, 2004, 69, . | 3.2 | 77 |
| 49 | Anomalous two-peakGâ€²-band Raman effect in one isolated single-wall carbon nanotube. Physical Review B, 2002, 65, . | 3.2 | 76 |
| 50 | Eco-friendly decoration of graphene oxide with biogenic silver nanoparticles: antibacterial and antibiofilm activity. Journal of Nanoparticle Research, 2014, 16, 1. | 1.9 | 75 |
| 51 | Raman study of morphotropic phase boundary inPbZr1âˆ’xTixO3at low temperatures. Physical Review B, 2001, 63, . | 3.2 | 73 |
| 52 | Phonons in ferroelectric Bi2WO6: Raman and infrared spectra and lattice dynamics. Applied Physics Letters, 2008, 92, . | 3.3 | 73 |
| 53 | Emergence of Atypical Properties in Assembled Graphene Nanoribbons. Physical Review Letters, 2011, 107, 135501. | 7.8 | 69 |
| 54 | Raman spectroscopy on one isolated carbon nanotube. Physica B: Condensed Matter, 2002, 323, 15-20. | 2.7 | 68 |

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| 55 | Molecular Spintronics: Destructive Quantum Interference Controlled by a Gate. Journal of the American Chemical Society, 2014, 136, 15065-15071. | 13.7 | 65 |
| 56 | Monoclinic phase ofPbZr0.52Ti0.48O3ceramics: Raman and phenomenological thermodynamic studies. Physical Review B, 2000, 61, 14283-14286. | 3.2 | 64 |
| 57 | Dispersive Raman spectra observed in graphite and single wall carbon nanotubes. Physica B: Condensed Matter, 2002, 323, 100-106. | 2.7 | 64 |
| 58 | Electronic properties of Ag- and CrO3-filled single-wall carbon nanotubes. Chemical Physics Letters, 2005, 406, 54-59. | 2.6 | 63 |
| 59 | Linear carbon chains encapsulated in multiwall carbon nanotubes: Resonance Raman spectroscopy and transmission electron microscopy studies. Carbon, 2015, 90, 172-180. | 10.3 | 63 |
| 60 | Phonon Trigonal Warping Effect in Graphite and Carbon Nanotubes. Physical Review Letters, 2003, 90, 027403. | 7.8 | 62 |
| 61 | Phonon-instability-driven phase transitions in ferroelectric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">W</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:mo>:</mml:mo><mml:msup><mml:mi mathvariant="normal">Eu</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:mrow> | 3.2 | 62 |
| 62 | One-Dimensional Character of Combination Modes in the Resonance Raman Scattering of Carbon Nanotubes. Physical Review Letters, 2004, 93, 087401. | 7.8 | 61 |
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| 65 | Coexistence of triclinic and monoclinic phases in WO3 ceramics. Journal of Raman Spectroscopy, 2000, 31, 451-454. | 2.5 | 58 |
| 66 | Structural, morphological and vibrational properties of titanate nanotubes and nanoribbons. Journal of the Brazilian Chemical Society, 2009, 20, 167-175. | 0.6 | 58 |
| 67 | Structural and proactive safety aspects of oxidation debris from multiwalled carbon nanotubes. Journal of Hazardous Materials, 2011, 189, 391-396. | 12.4 | 57 |
| 68 | Raman scattering and x-ray diffraction studies of polycrystallineCaCu3Ti4O12under high-pressure. Physical Review B, 2004, 70, . | 3.2 | 56 |
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| 72 | Pressure-induced structural transformations in the molybdateSc2(MoO4)3. Physical Review B, 2004, 69, . | 3.2 | 52 |

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| 74 | Interaction of graphene oxide with cell culture medium: Evaluating the fetal bovine serum protein corona formation towards in vitro nanotoxicity assessment and nanobiointeractions. Materials Science and Engineering C, 2019, 100, 363-377. | 7.3 | 52 |
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| 83 | Temperature dependent behavior of single walled MoO3 nanotubes: A Raman spectroscopy study. Vibrational Spectroscopy, 2010, 54, 179-183. | 2.2 | 47 |
| 84 | Effects of pressure on the structural and electronic properties of linear carbon chains encapsulated in double wall carbon nanotubes. Carbon, 2018, 133, 446-456. | 10.3 | 47 |
| 85 | Effect of quantized electronic states on the dispersive Raman features in individual single-wall carbon nanotubes. Physical Review B, 2001, 65, . | 3.2 | 46 |
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| 87 | Linear Carbon Chains under High-Pressure Conditions. Journal of Physical Chemistry C, 2015, 119, 10669-10676. | 3.1 | 46 |
| 88 | Biaxial Strain Transfer in Supported Graphene. Nano Letters, 2017, 17, 21-27. | 9.1 | 46 |
| 89 | Raman scattering studies of graphene under high pressure. Journal of Raman Spectroscopy, 2018, 49, 121-129. | 2.5 | 45 |
| 90 | Selective Tuning of the Electronic Properties of Coaxial Nanocables through Exohedral Doping. Nano Letters, 2007, 7, 2383-2388. | 9.1 | 43 |

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| 101 | Temperature-induced phase transition in h-MoO3: Stability loss mechanism uncovered by Raman spectroscopy and DFT calculations. Vibrational Spectroscopy, 2018, 98, 98-104. | 2.2 | 35 |
| 102 | Science and Applications of Single-Nanotube Raman Spectroscopy. Journal of Nanoscience and Nanotechnology, 2003, 3, 19-37. | 0.9 | 34 |
| 103 | Raman spectroscopy of double-walled carbon nanotubes treated with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2007, 76, . | 3.2 | 34 |
| 104 | Evidence of magnetic polaronic states inLa0.70Sr0.30Mn1âˆ'xFexO3manganites. Physical Review B, 2003, 67, . | 3.2 | 33 |
| 105 | Structural and dielectric properties of Nd3+-doped Ba0.77Ca0.23TiO3 ceramics. Journal of Applied Physics, 2005, 97, 104113. | 2.5 | 33 |
| 106 | Temperatureâ€dependent Raman spectroscopy study in MoO<sub>3</sub> nanoribbons. Journal of Raman Spectroscopy, 2012, 43, 1407-1412. | 2.5 | 33 |
| 107 | Phonon properties of Î²-Ag2MoO4: Raman spectroscopy and ab initio calculations. Vibrational Spectroscopy, 2016, 86, 97-102. | 2.2 | 33 |
| 108 | Torsional instability of chiral carbon nanotubes. Physical Review B, 2010, 81, . | 3.2 | 32 |

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| 109 | Pressure-Induced Selectivity for Probing Inner Tubes in Double- and Triple-Walled Carbon Nanotubes: A Resonance Raman Study. Journal of Physical Chemistry C, 2014, 118, 8153-8158. | 3.1 | 32 |
| 110 | Spectroscopic studies ofLixFePO4andLixM0.03Fe0.97PO4(M=Cr,Cu,Al,Ti). Physical Review B, 2005, 72, . | 3.2 | 31 |
| 111 | From high pressure radial collapse to graphene ribbon formation in triple-wall carbon nanotubes. Carbon, 2019, 141, 568-579. | 10.3 | 31 |
| 112 | International collaboration in Brazilian science: financing and impact. Scientometrics, 2020, 125, 2745-2772. | 3.0 | 31 |
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| 114 | Probing Spatial Phonon Correlation Length in Post-Transition Metal Monochalcogenide GaS Using Tip-Enhanced Raman Spectroscopy. Nano Letters, 2019, 19, 7357-7364. | 9.1 | 30 |
| 115 | Physical Membrane-Stress-Mediated Antimicrobial Properties of Cellulose Nanocrystals. ACS Sustainable Chemistry and Engineering, 2021, 9, 3203-3212. | 6.7 | 29 |
| 116 | FuncionalizaÃ§Ã£o de nanotubos de Carbono. Quimica Nova, 2007, 30, 1695-1703. | 0.3 | 28 |
| 117 | Machine Learning and Natural Language Processing Enable a Data-Oriented Experimental Design Approach for Producing Biochar and Hydrochar from Biomass. Chemistry of Materials, 2022, 34, 979-990. | 6.7 | 28 |
| 118 | High-pressure dependence of Sm3+ emission in PbOâ€“PbF2â€“B2O3 glasses. Journal of Materials Science Letters, 2000, 19, 135-137. | 0.5 | 27 |
| 119 | Raman scattering study of NaAl(MoO4)2crystal under high pressures. Journal of Physics Condensed Matter, 2004, 16, 5151-5161. | 1.8 | 27 |
| 120 | Resonant Raman spectra of carbon nanotube bundles observed by perpendicularly polarized light. Chemical Physics Letters, 2004, 387, 301-306. | 2.6 | 27 |
| 121 | Functionalization of single-wall carbon nanotubes through chloroform adsorption: theory and experiment. Physical Chemistry Chemical Physics, 2010, 12, 1518. | 2.8 | 27 |
| 122 | Topography-driven bionano-interactions on colloidal silica nanoparticles. ACS Applied Materials & Interfaces, 2014, 6, 3437-3447. | 8.0 | 27 |
| 123 | Pressure-induced radial collapse in few-wall carbon nanotubes: A combined theoretical and experimental study. Carbon, 2017, 125, 429-436. | 10.3 | 27 |
| 124 | Coating carbon nanotubes with humic acid using an eco-friendly mechanochemical method: Application for Cu(II) ions removal from water and aquatic ecotoxicity. Science of the Total Environment, 2017, 607-608, 1479-1486. | 8.0 | 27 |
| 125 | Temperature-dependent phonon dynamics of supported and suspended monolayer tungsten diselenide. AIP Advances, 2019, 9, . | 1.3 | 27 |
| 126 | Structural and optical properties of rare earthâ€“doped (Ba0.77Ca0.23)1â^'x(Sm, Nd, Pr, Yb)xTiO3. Journal of Applied Physics, 2011, 109, . | 2.5 | 26 |

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| 128 | Size-controllable synthesis of nanosized-TiO2 anatase using porous Vycor glass as template. Journal of Nanoparticle Research, 2006, 8, 141-148. | 1.9 | 25 |
| 129 | Elastic properties of graphyne-based nanotubes. Computational Materials Science, 2019, 170, 109153. | 3.0 | 25 |
| 130 | Strategic design of magnetic carbonaceous nanocomposites and its application as multifunctional adsorbent. Carbon, 2020, 161, 758-771. | 10.3 | 25 |
| 131 | Structural and electronic properties of graphitic nanowiggles. Physical Review B, 2012, 85, . | 3.2 | 24 |
| 132 | Microstructural and electrical properties of sintered tungsten trioxide. Journal of Materials Science, 1999, 34, 1031-1035. | 3.7 | 23 |
| 133 | First principles study of 1,2-dichlorobenzene adsorption on metallic carbon nanotubes. International Journal of Quantum Chemistry, 2006, 106, 2558-2563. | 2.0 | 23 |
| 134 | Raman spectroscopy study of Na<sub>2</sub>MoO<sub>4</sub>Â·2H<sub>2</sub>O and Na<sub>2</sub>MoO<sub>4</sub> under hydrostatic pressure. Journal of Raman Spectroscopy, 2010, 41, 576-581. | 2.5 | 23 |
| 135 | Lattice dynamics and pressure-induced phase transitions inBi2W2O9: High-pressure Raman study. Physical Review B, 2010, 81, . | 3.2 | 23 |
| 136 | Understanding the interaction of multi-walled carbon nanotubes with mutagenic organic pollutants using computational modeling and biological experiments. TrAC - Trends in Analytical Chemistry, 2011, 30, 437-446. | 11.4 | 23 |
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| 138 | High-pressure Raman scattering of MgMoO4. Vibrational Spectroscopy, 2013, 68, 34-39. | 2.2 | 22 |
| 139 | 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 |
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| 141 | High-pressure X-ray diffraction ofL-ALANINE crystal. High Pressure Research, 2006, 26, 433-437. | 1.2 | 21 |
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| 143 | Atomic-layered MoS2 on SiO2 under high pressure: Bimodal adhesion and biaxial strain effects. Physical Review Materials, 2017, 1, . | 2.4 | 21 |
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| 149 | Synthesis of slightly ã€˜111ã€™-oriented 0.65Pb(Mg1/3Nb2/3)O3â€“0.35PbTiO3 ceramic prepared from fine powders. Materials Chemistry and Physics, 2007, 104, 40-43. | 4.0 | 19 |
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| 154 | Gâ€² band Raman lineshape analysis in graphitic foams. Vibrational Spectroscopy, 2007, 45, 122-127. | 2.2 | 18 |
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