

# Carlos Wa Paschoal

## List of Publications by Year in descending order

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71  
papers

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304743

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g-index

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71  
docs citations

71  
times ranked

2157  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Spin-phonon coupling in the incommensurate magnetic ordered phase of orthorhombic TmMnO <sub>3</sub> . Journal of Physics and Chemistry of Solids, 2021, 154, 110044.   | 4.0  | 4         |
| 2  | Computer modelling of Bi <sub>12</sub> SiO <sub>20</sub> and Bi <sub>4</sub> Si <sub>3</sub> O <sub>12</sub> : Intrinsic defects and rare earth ion incorporation. Journal of Solid State Chemistry, 2020, 292, 121608.                       | 2.9  | 2         |
| 3  | High-temperature structural phase transition and infrared dielectric features of La <sub>2</sub> CoMnO <sub>6</sub> . Materials Research Bulletin, 2020, 129, 110878.   | 5.2  | 0         |
| 4  | Spin-phonon coupling in monoclinic BiCrO <sub>3</sub> . Journal of Applied Physics, 2020, 127, .  | 2.5  | 10        |
| 5  | Luminescent properties of Li(Ga <sub>1-x</sub> Cr <sub>x</sub> ) <sub>5</sub> O <sub>8</sub> (LGCO) phosphors. Ceramics International, 2020, 46, 15779-15785.   | 4.8  | 7         |
| 6  | Pressure-induced structural phase transition in multiferroic KBiFe <sub>2</sub> O <sub>5</sub> . Journal of Alloys and Compounds, 2019, 787, 1195-1203.   | 5.5  | 7         |
| 7  | Vibrational properties and infrared dielectric features of Gd <sub>2</sub> CoMnO <sub>6</sub> and Y <sub>2</sub> CoMnO <sub>6</sub> double perovskites. Ceramics International, 2019, 45, 4756-4762.  | 4.8  | 17        |
| 8  | Co-doping effect of Ca <sup>2+</sup> on luminescent properties of BaAl <sub>2</sub> O <sub>4</sub> : Eu <sup>3+</sup> phosphors. Journal of Electron Spectroscopy and Related Phenomena, 2018, 225, 62-65.                                    | 1.7  | 5         |
| 9  | Impact of Co-doping on the structural and magnetic properties of multiferroic CaMn <sub>7</sub> O <sub>12</sub> . Journal of Alloys and Compounds, 2018, 740, 559-566.  | 5.5  | 2         |
| 10 | Spin-phonon coupling in melanothallite Cu <sub>2</sub> OCl <sub>2</sub> . Applied Physics Letters, 2018, 113, .   | 3.3  | 8         |
| 11 | In situ investigation of Ba-substitution effect on the Eu <sup>3+</sup> →Eu <sup>2+</sup> conversion in SrAl <sub>2</sub> O <sub>4</sub> :Eu phosphor. Journal of Alloys and Compounds, 2017, 708, 79-83.                                     | 5.5  | 15        |
| 12 | Raman evidence for presence of high-temperature ferromagnetic clusters in magnetodielectric compound Ba-doped La <sub>2</sub> NiMnO <sub>6</sub> . Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 185, 125-129. | 3.9  | 15        |
| 13 | Spin-phonon coupling in multiferroic Y <sub>2</sub> CoMnO <sub>6</sub> . Journal of Alloys and Compounds, 2017, 690, 909-915.   | 5.5  | 25        |
| 14 | Structural order, magnetic and intrinsic dielectric properties of magnetoelectric La <sub>2</sub> CoMnO <sub>6</sub> . Journal of Alloys and Compounds, 2016, 661, 541-552.   | 5.5  | 38        |
| 15 | Ba-doping effects on structural, magnetic and vibrational properties of disordered La <sub>2</sub> NiMnO <sub>6</sub> . Journal of Alloys and Compounds, 2016, 663, 899-905.  | 5.5  | 33        |
| 16 | Li <sup>+</sup> interstitials as the charge carriers in superionic lithium-rich anti-perovskites. Journal of Materials Chemistry A, 2016, 4, 1586-1590.   | 10.3 | 32        |
| 17 | Radioluminescence enhancement in Eu <sup>3+</sup> -doped Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> phosphors by Ga substitution. Optical Materials, 2015, 46, 530-535.   | 3.6  | 17        |
| 18 | Role of rare-earth ionic radii on the spin-phonon coupling in multiferroic ordered double perovskites. Materials Research Express, 2015, 2, 075201.   | 1.6  | 10        |

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|----|---|------|-----------|
| 19 | Intrinsic dielectric properties of magnetodielectric La <sub>2</sub> CoMnO <sub>6</sub> . Journal of Applied Physics, 2015, 117, .  | 2.5  | 30        |
| 20 | Printed and flexible biosensor for antioxidants using interdigitated ink-jetted electrodes and gravure-deposited active layer. Biosensors and Bioelectronics, 2015, 67, 553-559.                                      | 10.1 | 84        |
| 21 | Mechanism of luminescent enhancement in Ba <sub>2</sub> GdNbO <sub>6</sub> :Eu <sup>3+</sup> perovskite by Li <sup>+</sup> co-doping. Journal of Luminescence, 2015, 158, 75-80.                                      | 3.1  | 8         |
| 22 | Spin-phonon and magnetostriction phenomena in CaMn <sub>7</sub> O <sub>12</sub> helimagnet probed by Raman spectroscopy. Applied Physics Letters, 2014, 105, 222902.  | 3.3  | 31        |
| 23 | Concentration of Charge Carriers, Migration, and Stability in Li <sub>3</sub> OCl Solid Electrolytes. Chemistry of Materials, 2014, 26, 7137-7144.  | 6.7  | 68        |
| 24 | Spin-phonon coupling in BaFe <sub>12</sub> O <sub>19</sub> M-type hexaferrite. Journal of Applied Physics, 2014, 116, .   | 2.5  | 22        |
| 25 | The effect of cobalt substitution in crystal structure and vibrational modes of CuFe <sub>2</sub> O <sub>4</sub> powders obtained by polymeric precursor method. Journal of Alloys and Compounds, 2014, 584, 573-580. | 5.5  | 48        |
| 26 | Synthesis and structural ordering of nano-sized Ba <sub>3</sub> B <sup>2</sup> Nb <sub>2</sub> O <sub>9</sub> (B <sup>2</sup> = Ca and Zn) powders. Ceramics International, 2014, 40, 5921-5930.                      | 4.8  | 10        |
| 27 | Probing phase formation and structural ordering in Ba <sub>3</sub> ZnNb <sub>2</sub> O <sub>9</sub> films using confocal Raman microscopy. Vibrational Spectroscopy, 2014, 72, 8-14.                                  | 2.2  | 3         |
| 28 | Temperature-dependent Raman spectra of Bi <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> ceramics. Vibrational Spectroscopy, 2013, 64, 172-177.  | 2.2  | 24        |
| 29 | Ordering and phonons in Ba <sub>3</sub> CaNb <sub>2</sub> O <sub>9</sub> complex perovskite. Materials Research Bulletin, 2013, 48, 3298-3303.  | 5.2  | 20        |
| 30 | DFT and CCSD(T) electronic properties and structures of aluminum clusters: Al <sub>n</sub> x (n=1-9, x=0, ±1). Chemical Physics Letters, 2013, 568-569, 42-48.  | 2.6  | 39        |
| 31 | Room-temperature vibrational properties of the BiMn <sub>2</sub> O <sub>5</sub> mullite. Vibrational Spectroscopy, 2013, 66, 43-49.   | 2.2  | 11        |
| 32 | Spin-phonon coupling in Y <sub>2</sub> NiMnO <sub>6</sub> double perovskite probed by Raman spectroscopy. Applied Physics Letters, 2013, 102, .   | 3.3  | 66        |
| 33 | Tolerance factor for pyrochlores and related structures. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2013, 69, 439-445.  | 1.1  | 54        |
| 34 | Spin-phonon coupling in Gd(Co <sub>1/2</sub> Mn <sub>1/2</sub> )O <sub>3</sub> perovskite. Journal of Applied Physics, 2013, 114, .   | 2.5  | 27        |
| 35 | Optical phonon features in ferroelectric Bi <sub>3</sub> Fe <sub>1/2</sub> Nb <sub>3/2</sub> O <sub>9</sub> . Vibrational Spectroscopy, 2012, 63, 409-417.  | 2.2  | 4         |
| 36 | Ionic conductivity in Bi <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> ceramics. Ceramics International, 2012, 38, 1275-1279.   | 4.8  | 7         |

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|----|---|-----|-----------|
| 37 | Relaxations in Ba <sub>2</sub> BiTaO <sub>6</sub> ceramics investigated by impedance and electric modulus spectroscopies. Materials Research Bulletin, 2012, 47, 878-882.   | 5.2 | 6         |
| 38 | Impedance spectroscopy investigation of the water-in-oil microemulsions formation. Colloids and Surfaces B: Biointerfaces, 2011, 84, 325-328.   | 5.0 | 7         |
| 39 | About the SDS inclusion in PDMS/TEOS ORMOSIL: a vibrational spectroscopy and confocal Raman scattering study. Journal of Raman Spectroscopy, 2011, 42, 1601-1605.   | 2.5 | 17        |
| 40 | Ionic properties of an organic-inorganic sol-gel hybrid based on polydimethylsiloxane and tetraethoxysilane doped with sodium dodecyl sulfate. Journal of Applied Polymer Science, 2010, 115, 851-854.                                      | 2.6 | 3         |
| 41 | Computer modeling of Ba <sub>2</sub> RE <sub>3</sub> NbO <sub>6</sub> (RE <sup>3+</sup> ) Tj ETQq1 1 0.784314 rgBT /Overlock 1.8 3  | 1.8 | 3         |
| 42 | Lattice dynamics and low-temperature Raman spectroscopy studies of PMN-PT relaxors. Journal of Raman Spectroscopy, 2009, 40, 1144-1149.   | 2.5 | 48        |
| 43 | Impedance spectroscopy analysis of BaFe <sub>12</sub> O <sub>19</sub> M-type hexaferrite obtained by ceramic method. Ceramics International, 2009, 35, 2443-2447.   | 4.8 | 69        |
| 44 | Collagen films from swim bladders: Preparation method and properties. Colloids and Surfaces B: Biointerfaces, 2008, 62, 17-21.  | 5.0 | 24        |
| 45 | Temperature-dependent Raman scattering studies of Na <sub>2</sub> MoO <sub>4</sub> . Journal of Raman Spectroscopy, 2008, 39, 937-941.  | 2.5 | 52        |
| 46 | Computer simulation of Na <sub>2</sub> ThF <sub>6</sub> single crystals: prediction of a phase transition under hydrostatic pressures. Journal of Physics Condensed Matter, 2008, 20, 165202.   | 1.8 | 0         |
| 47 | Relaxations in Ba <sub>2</sub> BiSbO <sub>6</sub> double complex perovskite ceramics. Journal of Applied Physics, 2008, 104, .  | 2.5 | 26        |
| 48 | Behavior of the elastic and mechanical properties of Ba <sub>2</sub> BiTaO <sub>6</sub> compound under pressure changes. Computational Materials Science, 2007, 40, 417-420.  | 3.0 | 6         |
| 49 | About the mechanism of the reconstructive structural phase transition underwent by tysonite under pressure. Physica B: Condensed Matter, 2007, 391, 228-230.  | 2.7 | 8         |
| 50 | Atomistic simulation of the crystal structure and bulk properties of (, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Y,) Tj ETQq0 0 0 rgBT /Overlock 10 T 4.6 8  | 4.6 | 8         |
| 51 | Chemical Substitution in Ba(RE <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> (RE = La, Nd, Sm, Gd, Tb, and Y) Microwave Ceramics and Its Influence on the Crystal Structure and Phonon Modes. Chemistry of Materials, 2006, 18, 214-220. | 6.7 | 88        |
| 52 | Vibrational spectra of monazite-type rare-earth orthophosphates. Optical Materials, 2006, 29, 224-230.  | 3.6 | 131       |
| 53 | Structural phase transitions under pressure in rare earth triuorides compounds with tysonite structure. Solid State Communications, 2005, 136, 538-542.   | 1.9 | 22        |
| 54 | Infrared reflectivity and intrinsic dielectric behavior of RETiTaO <sub>6</sub> (RE = Y, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy,) Tj ETQq0 0 0 rgBT /Overlock 10 T 2.6 12   | 2.6 | 12        |

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|----|---|-----|-----------|
| 55 | Thermal behavior in Pr(HCOO) <sub>3</sub> crystals. Journal of Raman Spectroscopy, 2004, 35, 159-164.   | 2.5 | 6         |
| 56 | Sequence of structural phase transitions of CsInF <sub>4</sub> crystal. Solid State Communications, 2004, 129, 539-543.   | 1.9 | 1         |
| 57 | Low-temperature Raman spectra of Sr <sub>0.66</sub> Ba <sub>0.34</sub> Nb <sub>2</sub> O <sub>6</sub> single-crystal fibers. Journal of Raman Spectroscopy, 2003, 34, 826-830.                            | 2.5 | 20        |
| 58 | Vibrational spectrum of Na <sub>2</sub> ThF <sub>6</sub> single crystals. Vibrational Spectroscopy, 2003, 31, 159-166.  | 2.2 | 6         |
| 59 | Raman scattering study of RE <sub>2</sub> TiTaO <sub>6</sub> dielectric ceramics. Journal of the European Ceramic Society, 2003, 23, 2661-2666.   | 5.7 | 33        |
| 60 | Infrared Spectroscopic Investigations in Ordered Barium Magnesium Niobate Ceramics. Journal of the American Ceramic Society, 2003, 86, 1985-1987.   | 3.8 | 19        |
| 61 | Raman and infrared spectroscopic studies of the Li <sub>3</sub> Na <sub>3</sub> In <sub>2</sub> F <sub>12</sub> fluoride garnet. Journal of Physics Condensed Matter, 2002, 14, 271-280.                  | 1.8 | 16        |
| 62 | Single-crystal structure determination and infrared reflectivity study of the Li <sub>2</sub> CaHfF <sub>8</sub> scheelite. Journal of Physics Condensed Matter, 2002, 14, 5485-5495.                     | 1.8 | 6         |
| 63 | Temperature-dependent Raman scattering study of Fe <sub>3</sub> O <sub>2</sub> BO <sub>3</sub> ludwigite. Journal of Raman Spectroscopy, 2002, 33, 1-5.   | 2.5 | 8         |
| 64 | Monoclinic-orthorhombic phase transition in Ba <sub>2</sub> Cu(HCOO) <sub>6</sub> crystals: a Raman scattering study. Journal of Raman Spectroscopy, 2002, 33, 37-41.                                     | 2.5 | 3         |
| 65 | Phonons in isostructural compounds CuxM <sub>1-x</sub> (HCOO) <sub>2</sub> ·1/2H <sub>2</sub> O (M = Mn, Co, Ni, Zn, and Cd): a Raman scattering study. Journal of Raman Spectroscopy, 2002, 33, 273-277. | 2.5 | 7         |
| 66 | Low-temperature phase transition in CsInF <sub>4</sub> . Solid State Communications, 2002, 122, 549-551.  | 1.9 | 1         |
| 67 | Disorder-induced symmetry lowering in the CsInMgF <sub>6</sub> pyrochlore crystal. Physical Review B, 2002, 66, .   | 3.2 | 22        |
| 68 | Vibrational spectra of Ba <sub>2</sub> Cu(HCOO) <sub>6</sub> crystals. Journal of Raman Spectroscopy, 2000, 31, 491-495.  | 2.5 | 11        |
| 69 | Temperature-Dependent Raman Study of CaCu(HCOO) <sub>4</sub> and Ca <sub>2</sub> Cu(HCOO) <sub>6</sub> Crystals. Journal of Solid State Chemistry, 2000, 154, 338-343.                                    | 2.9 | 7         |
| 70 | ENERGY TRANSFER BETWEEN LIGHT WAVES IN NONLINEAR MEDIA WITH TWO DIFFERENT RESPONSE TIMES. Modern Physics Letters B, 1999, 13, 541-546.  | 1.9 | 0         |
| 71 | Aspectos Gemol <sup>3</sup> gicos de Ametistas de Quixeramobim, Brasil. Anuario Do Instituto De Geociencias, 0, 44, .   | 0.2 | 0         |