# Marcelo Nalin

List of Publications by Year
in descending order

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| 89 | 1,309 | 331670 21 | 434195 31 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 89 | 89 | 89 | 1353 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Antimony oxide based glasses. Journal of Non-Crystalline Solids, 2001, 284, 110-116. | 3.1 | 103 |
| 2 | Structural and vibrational study of cubic Sb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>under high pressure. Physical Review B, 2012, 85, . | 3.2 | 71 |
| 3 | Bulk photochromism in a tungstate-phosphate glass: A new optical memory material?. Journal of Chemical Physics, 2006, 125, 161101. | 3.0 | 60 |
| 4 | Structural organization and thermal properties of the Sb2O3â€“SbPO4glass system. Journal of Materials Chemistry, 2004, 14, 3398-3405. | 6.7 | 56 |
| 5 | Ultrafast nonlinearity of antimony polyphosphate glasses. Applied Physics Letters, 2003, 83, 1292-1294. | 3.3 | 40 |
| 6 | Photochromic properties of tungstate-based glasses. Solid State Ionics, 2007, 178, 871-875. | 2.7 | 37 |
| 7 | Nonlinear Optical Properties of Tungsten Leadâ€“Pyrophosphate Glasses Containing Metallic Copper Nanoparticles. Plasmonics, 2013, 8, 1667-1674. | 3.4 | 37 |
| 8 | Coupling between surface plasmon resonance and Sm3+ ions induced enhancement of luminescence properties in fluoro-tellurite glasses. Journal of Luminescence, 2017, 190, 518-524. | 3.1 | 31 |
| 9 | SiO2-TiO2 doped with Er3+/Yb3+/Eu3+ photoluminescent material: A spectroscopy and structural study about potential application for improvement of the efficiency on solar cells. Materials Research Bulletin, 2018, 107, 295-307. | 5.2 | 31 |
| 10 | Glasses in the SbPO4â€“WO3 system. Journal of Non-Crystalline Solids, 2007, 353, 1592-1597. | 3.1 | 30 |
| 11 | White light and multicolor emission tuning in Ag nanocluster doped fluorophosphate glasses. RSC Advances, 2017, 7, 44356-44365. | 3.6 | 30 |
| 12 | Antimony orthophosphate glasses with large nonlinear refractive indices, low two-photon absorption coefficients, and ultrafast response. Journal of Applied Physics, 2005, 97, 013505. | 2.5 | 29 |
| 13 | Highly nonlinear Pb2P2O7-Nb2O5 glasses for optical fiber production. Journal of Non-Crystalline Solids, 2016, 443, 82-90. | 3.1 | 29 |
| 14 | Optical sensor platform based on cellulose nanocrystals (CNC) â€“ 4â€²-(hexyloxy)-4-biphenylcarbonitrile (HOBC) bi-phase nematic liquid crystal composite films. Carbohydrate Polymers, 2017, 168, 346-355. | 10.2 | 26 |
| 15 | Fundamental studies of magneto-optical borogermanate glasses and derived optical fibers containing Tb3+. Journal of Materials Research and Technology, 2021, 11, 312-327. | 5.8 | 25 |
| 16 | Biocellulose-based flexible magnetic paper. Journal of Applied Physics, 2015, 117, 17B734. | 2.5 | 24 |
| 17 | Nonresonant third-order nonlinearity of antimony glasses at telecom wavelengths. Journal of Applied Physics, 2006, 100, 116105. | 2.5 | 23 |
| 18 | Er3+-doped niobium alkali germanate glasses and glass-ceramics: NIR and visible luminescence properties. Journal of Non-Crystalline Solids, 2019, 521, 119492. | 3.1 | 23 |

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|---|---|---|---|
| 19 | Magneto-optical borogermanate glasses and fibers containing Tb3+. Scientific Reports, 2021, 11, 9906. | 3.3 | 23 |
| 20 | High tantalum oxide content in Eu3+-doped phosphate glass and glass-ceramics for photonic applications. Journal of Alloys and Compounds, 2020, 842, 155853. | 5.5 | 22 |
| 21 | Thermal and structural modification in transparent and magnetic germanoborate glasses induced by Gd2O3. Ceramics International, 2020, 46, 22079-22089. | 4.8 | 22 |
| 22 | Is the structural relaxation of glasses controlled by equilibrium shear viscosity?. Journal of the American Ceramic Society, 2021, 104, 2066-2076. | 3.8 | 22 |
| 23 | Highly luminescent silver nanocluster-doped fluorophosphate glasses for microfabrication of 3D waveguides. RSC Advances, 2017, 7, 55935-55944. | 3.6 | 21 |
| 24 | Glass forming regions, structure and properties of lanthanum barium germanate and gallate glasses. Journal of Non-Crystalline Solids, 2021, 571, 121064. | 3.1 | 21 |
| 25 | Visible up-conversion and near-infrared luminescence of Er3+/Yb3+ co-doped SbPO4-GeO2 glasses. Optical Materials, 2016, 57, 71-78. | 3.6 | 20 |
| 26 | Influence on the oxidative potential of a heavy-duty engine particle emission due to selective catalytic reduction system and biodiesel blend. Science of the Total Environment, 2016, 560-561, 179-185. | 8.0 | 19 |
| 27 | Glasses in the NaPO3-WO3-NaF ternary system: preparation, physical properties and structural studies. Journal of Non-Crystalline Solids, 2019, 505, 379-389. | 3.1 | 17 |
| 28 | Scandium fluorophosphate glasses: a structural approach. Comptes Rendus Chimie, 2002, 5, 915-920. | 0.5 | 16 |
| 29 | Observation of asymmetric spectrum broadening induced by silver nanoparticles in a heavy-metal oxide glass. Europhysics Letters, 2011, 94, 37011. | 2.0 | 15 |
| 30 | Photoinduced structural changes in antimony polyphosphate based glasses. Journal of Non-Crystalline Solids, 2003, 330, 168-173. | 3.1 | 14 |
| 31 | Photochromic dynamics of organicâ€“inorganic hybrids supported on transparent and flexible recycled PET. Optical Materials, 2017, 66, 297-301. | 3.6 | 14 |
| 32 | Phosphate glasses via coacervation route containing CdFe<sub>2</sub>O<sub>4</sub> nanoparticles: structural, optical and magnetic characterization. Dalton Transactions, 2018, 47, 5771-5779. | 3.3 | 14 |
| 33 | Experimental and Theoretical Study of SbPO4 under Compression. Inorganic Chemistry, 2020, 59, 287-307. | 4.0 | 14 |
| 34 | Label-Free Ultrasensitive and Environment-Friendly Immunosensor Based on a Silica Optical Fiber for the Determination of Ciprofloxacin in Wastewater Samples. Analytical Chemistry, 2020, 92, 14415-14422. | 6.5 | 14 |
| 35 | Preparation and structural characterization of sodium polyphosphate coacervate as a precursor for optical materials. Materials Chemistry and Physics, 2016, 180, 114-121. | 4.0 | 13 |
| 36 | A new SERS substrate based on niobium lead-pyrophosphate glasses obtained by Ag+/Na+ ion exchange. Sensors and Actuators B: Chemical, 2018, 277, 347-352. | 7.8 | 13 |

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|---|---|---|---|
| 37 | Structural and EPR studies of Cu2+ ions in NaPO3 â€“ Sb2O3 â€“ CuO glasses. Journal of Non-Crystalline Solids, 2019, 503-504, 169-175. | 3.1 | 13 |
| 38 | Nonlinear refractive index measurements in antimonyâ€“sulfide glass films using a single beam nonlinear image technique. Optics Communications, 2006, 260, 723-726. | 2.1 | 12 |
| 39 | Optical and structural properties of Mn2+ doped PbGeO3â€“SbPO4 glasses and glassâ€“ceramics. Journal of Non-Crystalline Solids, 2016, 431, 135-139. | 3.1 | 12 |
| 40 | Controlled formation of metallic tellurium nanocrystals in tellurite glasses using femtosecond direct laser writing. Journal of Materials Research and Technology, 2021, 13, 1296-1304. | 5.8 | 12 |
| 41 | Structural investigation of nickel polyphosphate coacervate glassâ€“ceramics. RSC Advances, 2016, 6, 91150-91156. | 3.6 | 11 |
| 42 | Simple, fast and environmentally friendly method to determine ciprofloxacin in wastewater samples based on an impedimetric immunosensor. RSC Advances, 2020, 10, 1838-1847. | 3.6 | 11 |
| 43 | A review on polyphosphate coacervatesâ€”structural properties and bioapplications. Journal of Sol-Gel Science and Technology, 2020, 94, 531-543. | 2.4 | 11 |
| 44 | Self-Supported Smart Bacterial Nanocelluloseâ€“Phosphotungstic Acid Nanocomposites for Photochromic Applications. Frontiers in Materials, 2021, 8, . | 2.4 | 11 |
| 45 | Glass formation in the Sb2O3-SbPO4-WO3 system. Ecletica Quimica, 2017, 42, 51. | 0.5 | 11 |
| 46 | Characterization of the reversible photoinduced optical changes in Sb-based glasses. Journal of Non-Crystalline Solids, 2006, 352, 3535-3539. | 3.1 | 10 |
| 47 | Synthesis and structural characterization of a new SbPO4-GeO2 glass system. Journal of Non-Crystalline Solids, 2018, 500, 133-140. | 3.1 | 10 |
| 48 | Femtosecond laser micro-patterning of optical properties and functionalities in novel photosensitive silver-containing fluorophosphate glasses. Journal of Non-Crystalline Solids, 2019, 517, 51-56. | 3.1 | 10 |
| 49 | Phosphate glasses containing monodisperse Fe3â^ÎŕO4@SiO2 stellate nanoparticles obtained by melt-quenching process. Ceramics International, 2020, 46, 12120-12127. | 4.8 | 10 |
| 50 | Picosecond nonlinearity of GeO2â€“Bi2O3â€“PbOâ€“TiO2 glasses at 532 and 1,064Ânm. Applied Physics B: Lasers and Optics, 2014, 117, 891-895. | 2.2 | 9 |
| 51 | Structural Study of the Germaniumâ€“Aluminumâ€“Borate Glasses by Solid State NMR and Raman Spectroscopies. Journal of Physical Chemistry C, 2020, 124, 24460-24469. | 3.1 | 9 |
| 52 | Thermal and structural modification in transparent and magnetic gallogermanate glasses induced by Gd2O3. Journal of Alloys and Compounds, 2022, 912, 165181. | 5.5 | 8 |
| 53 | Thermo and photochromic properties of Na2Oâ€“WO3â€“SbPO4 glasses. Solid State Ionics, 2010, 181, 1125-1130. | 2.7 | 7 |
| 54 | Optical and EPR studies of zinc phosphate glasses containing Mn2+ ions. Journal of Materials Science, 2020, 55, 9948-9961. | 3.7 | 7 |

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|---|---|---|---|
| 55 | Tuning multicolor emission in AgNCs/Tm3+/Mn2+-doped fluorophosphate glasses. Journal of Non-Crystalline Solids, 2020, 535, 119968. | 3.1 | 7 |
| 56 | Heavy metal oxide glass-ceramics containing luminescent gallium-garnets single crystals for photonic applications. Journal of Alloys and Compounds, 2021, 864, 158804. | 5.5 | 7 |
| 57 | Scandium fluorides. Journal of Alloys and Compounds, 1997, 262-263, 296-298. | 5.5 | 6 |
| 58 | Crystallization study of the (1â^'x)Sb2O3â€"(x)SbPO4 glass system. Materials Chemistry and Physics, 2008, 112, 1069-1073. | 4.0 | 6 |
| 59 | Refractive index changes in photochromic SbPO4â€"WO3 glass by exposure to band-gap radiation. Journal of Non-Crystalline Solids, 2010, 356, 2360-2362. | 3.1 | 6 |
| 60 | PWA-diureasils organicâ€"inorganic hybrids. Photochromism and effect of the organic chain length. Optical Materials, 2015, 46, 64-69. | 3.6 | 6 |
| 61 | Photoluminescence of Ag+ and Agn+m in co-doped Pr3+/Yb3+ fluorophosphate glasses: tuning visible emission and energy transfer to Pr3+/Yb3+ ions through excitation in different silver species. Journal of Materials Science: Materials in Electronics, 2019, 30, 16878-16885. | 2.2 | 6 |
| 62 | Dy3+/Tb3+-codoped tunable warm light-emitting fluorogermanate glass phosphor. Optical Engineering, 2016, 55, 117103. | 1.0 | 5 |
| 63 | Embedding CoPt magnetic nanoparticles within a phosphate glass matrix. Journal of Alloys and Compounds, 2020, 848, 156576. | 5.5 | 5 |
| 64 | Structural and luminescence characterization of europium-doped niobium germanate glasses and glass-ceramics: Novel insights from 93Nb solid-state NMR spectroscopy. Ceramics International, 2022, 48, 20801-20808. | 4.8 | 5 |
| 65 | Laser irradiation and thermal treatment inducing selective crystallization in Sb2O3â€"Sb2S3 glassy films. Physica B: Condensed Matter, 2015, 458, 67-72. | 2.7 | 4 |
| 66 | Casting and inkjet printable photochromic films based on polymethylmethacrylate â€" Phosphotungstic acid. Optical Materials, 2019, 96, 109345. | 3.6 | 4 |
| 67 | Crystallization kinetics study of silver-doped germanium glasses. Thermochimica Acta, 2019, 673, 40-52. | 2.7 | 4 |
| 68 | Application of Raman spectroscopy to industrial research: Determination of impurities in glass bottles. Vibrational Spectroscopy, 2019, 100, 57-63. | 2.2 | 4 |
| 69 | Optical and Structural Studies of Mn2+Doped SbPO4-ZnO-PbO Glasses. Journal of the Brazilian Chemical Society, 2015, , . | 0.6 | 4 |
| 70 | BiF<sub>3</sub> Incorporation in Na/Ba Mixed Network Modifier Fluorideâ€"Phosphate Glasses: Structural Studies by Solid-State NMR and Raman Spectroscopies. Journal of Physical Chemistry C, 2020, 124, 25578-25587. | 3.1 | 4 |
| 71 | Two-dimensional photonic crystals in antimony-based films fabricated by holography. Journal of Applied Physics, 2008, 103, 106101. | 2.5 | 3 |
| 72 | Glasses on the Nanoscale. , 2013, , 665-692. | | 3 |

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|---|---|---|---|
| 73 | Production of Transparent Soda-Lime Glass from Rice Husk Containing Iron and Manganese Impurities. Ceramics, 2020, 3, 494-506. | 2.6 | 3 |
| 74 | Comparison of structural and spectroscopic properties of Ho3+-doped niobate compounds. Materials Research Bulletin, 2021, 143, 111451. | 5.2 | 3 |
| 75 | Self diffraction holographic techniques for investigation of photosensitive materials. , 2013, , . | | 2 |
| 76 | The impact of P/Ca molar ratio on physicochemical and release properties of calcium polyphosphate coacervates. Materials Chemistry and Physics, 2021, 264, 124471. | 4.0 | 2 |
| 77 | InfluÃªncia dos precursores de prata no crescimento de nanopartÃculas metÃ¡licas em vidros Ã³xidos de metais pesados. Quimica Nova, 2013, 36, 967-971. | 0.3 | 2 |
| 78 | Incorporation of CdFe2O4SiO2 nanoparticles in SbPO4-ZnO-PbO glasses by melting quenching process. Ecletica Quimica, 2018, 43, 32. | 0.5 | 2 |
| 79 | Plasmonic structures fabricated by interference lithography for sensor applications. , 2009, , . | | 1 |
| 80 | Measurement of phase and amplitude modulations in Sb-based films. , 2009, , . | | 1 |
| 81 | Design and fabrication of two-dimensional hexagonal photonic crystals with a linear waveguide in erbium doped GeO2-Bi2O3-PbO-TiO2glasses. , 2013, , . | | 1 |
| 82 | Glasses containing lutetium fluoride. , 1998, , . | | 0 |
| 83 | Antimony based glasses for photonics ultrafast applications. , 2003, , MT12. | | 0 |
| 84 | Antimony Glasses with Large Nonlinear Refractive Indices, Small Two-Photon Absorption Coefficients and Ultrafast Response at Telecom Wavelengths. , 2007, , . | | 0 |
| 85 | 2D Photonic Crystal Layers in Antimony-based films. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 86 | Experimental evidence of asymmetrical spectrum broadening in a heavy-metal oxide glass doped with silver nanoparticles. , 2011, , . | | 0 |
| 87 | PreparaÃ§Ã£o de vidros e vitrocerÃ¢micas de Ã³xidos de metais pesados contendo prata: propriedades Ã³pticas, estruturais e eletroquÃmicas. Quimica Nova, 2012, 35, 755-761. | 0.3 | 0 |
| 88 | GLASSY MATERIALS AND LIGHT: PART 1. Quimica Nova, 2016, , . | 0.3 | 0 |
| 89 | GLASSY MATERIALS AND LIGHT: PART 2. Quimica Nova, 2016, , . | 0.3 | 0 |