Marcelo Nalin

List of Publications by Year
in descending order

89 papers	1,309 citations	331670 21 h-index	434195 31 g-index
89 all docs	89 docs citations	89 times ranked	1353 citing authors

#	Article	IF	Citations
1	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
2	Thermal and structural modification in transparent and magnetic gallogermanate glasses induced by Gd2O3. Journal of Alloys and Compounds, 2022, 912, 165181.	5.5	8
3	Is the structural relaxation of glasses controlled by equilibrium shear viscosity?. Journal of the American Ceramic Society, 2021, 104, 2066-2076.	3.8	22
4	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
5	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
6	Self-Supported Smart Bacterial Nanocelluloseâ€"Phosphotungstic Acid Nanocomposites for Photochromic Applications. Frontiers in Materials, 2021, 8, .	2.4	11
7	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
8	Magneto-optical borogermanate glasses and fibers containing Tb3+. Scientific Reports, 2021, 11, 9906.	3.3	23
9	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
10	Comparison of structural and spectroscopic properties of Ho3+-doped niobate compounds. Materials Research Bulletin, 2021, 143, 111451.	5.2	3
11	Glass forming regions, structure and properties of lanthanum barium germanate and gallate glasses. Journal of Non-Crystalline Solids, 2021, 571, 121064.	3.1	21
12	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
13	Experimental and Theoretical Study of SbPO4 under Compression. Inorganic Chemistry, 2020, 59, 287-307.	4.0	14
14	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
15	Embedding CoPt magnetic nanoparticles within a phosphate glass matrix. Journal of Alloys and Compounds, 2020, 848, 156576.	5.5	5
16	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
17	Production of Transparent Soda-Lime Glass from Rice Husk Containing Iron and Manganese Impurities. Ceramics, 2020, 3, 494-506.	2.6	3
18	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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19	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
20	A review on polyphosphate coacervatesâ€"structural properties and bioapplications. Journal of Sol-Gel Science and Technology, 2020, 94, 531-543.	2.4	11
21	Thermal and structural modification in transparent and magnetic germanoborate glasses induced by Gd2O3. Ceramics International, 2020, 46, 22079-22089.	4.8	22
22	Tuning multicolor emission in AgNCs/Tm3+/Mn2+-doped fluorophosphate glasses. Journal of Non-Crystalline Solids, 2020, 535, 119968.	3.1	7
23	Phosphate glasses containing monodisperse Fe3â^'Î´O4@SiO2 stellate nanoparticles obtained by melt-quenching process. Ceramics International, 2020, 46, 12120-12127.	4.8	10
24	BiF₃ 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
25	Casting and inkjet printable photochromic films based on polymethylmethacrylate â€" Phosphotungstic acid. Optical Materials, 2019, 96, 109345.	3.6	4
26	Crystallization kinetics study of silver-doped germanium glasses. Thermochimica Acta, 2019, 673, 40-52.	2.7	4
27	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
28	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
29	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
30	Application of Raman spectroscopy to industrial research: Determination of impurities in glass bottles. Vibrational Spectroscopy, 2019, 100, 57-63.	2.2	4
31	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
32	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
33	Phosphate glasses <i>via</i> coacervation route containing CdFe₂O₄ nanoparticles: structural, optical and magnetic characterization. Dalton Transactions, 2018, 47, 5771-5779.	3.3	14
34	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
35	Synthesis and structural characterization of a new SbPO4-GeO2 glass system. Journal of Non-Crystalline Solids, 2018, 500, 133-140.	3.1	10
36	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

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37	Incorporation of CdFe2O4SiO2 nanoparticles in SbPO4-ZnO-PbO glasses by melting quenching process. Ecletica Quimica, 2018, 43, 32.	0.5	2
38	Photochromic dynamics of organicâ€“inorganic hybrids supported on transparent and flexible recycled PET. Optical Materials, 2017, 66, 297-301.	3.6	14
39	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
40	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
41	White light and multicolor emission tuning in Ag nanocluster doped fluorophosphate glasses. RSC Advances, 2017, 7, 44356-44365.	3.6	30
42	Highly luminescent silver nanocluster-doped fluorophosphate glasses for microfabrication of 3D waveguides. RSC Advances, 2017, 7, 55935-55944.	3.6	21
43	Glass formation in the Sb2O3-SbPO4-WO3 system. Ecletica Quimica, 2017, 42, 51.	0.5	11
44	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
45	Highly nonlinear Pb2P2O7-Nb2O5 glasses for optical fiber production. Journal of Non-Crystalline Solids, 2016, 443, 82-90.	3.1	29
46	Visible up-conversion and near-infrared luminescence of Er3+/Yb3+ co-doped SbPO4-GeO2 glasses. Optical Materials, 2016, 57, 71-78.	3.6	20
47	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
48	Structural investigation of nickel polyphosphate coacervate glassâ€“ceramics. RSC Advances, 2016, 6, 91150-91156.	3.6	11
49	Dy3+/Tb3+-codoped tunable warm light-emitting fluorogermanate glass phosphor. Optical Engineering, 2016, 55, 117103.	1.0	5
50	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
51	GLASSY MATERIALS AND LIGHT: PART 1. Quimica Nova, 2016, , .	0.3	0
52	GLASSY MATERIALS AND LIGHT: PART 2. Quimica Nova, 2016, , .	0.3	0
53	PWA-diureasils organicâ€“inorganic hybrids. Photochromism and effect of the organic chain length. Optical Materials, 2015, 46, 64-69.	3.6	6
54	Biocellulose-based flexible magnetic paper. Journal of Applied Physics, 2015, 117, 17B734.	2.5	24

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55	Laser irradiation and thermal treatment inducing selective crystallization in Sb2O3â€“Sb2S3 glassy films. Physica B: Condensed Matter, 2015, 458, 67-72.	2.7	4
56	Optical and Structural Studies of Mn2+Doped SbPO4-ZnO-PbO Glasses. Journal of the Brazilian Chemical Society, 2015, , .	0.6	4
57	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
58	Nonlinear Optical Properties of Tungsten Leadâ€“Pyrophosphate Glasses Containing Metallic Copper Nanoparticles. Plasmonics, 2013, 8, 1667-1674.	3.4	37
59	Self diffraction holographic techniques for investigation of photosensitive materials. , 2013, , .		2
60	Design and fabrication of two-dimensional hexagonal photonic crystals with a linear waveguide in erbium doped GeO2-Bi2O3-PbO-TiO2glasses. , 2013, , .		1
61	Glasses on the Nanoscale. , 2013, , 665-692.		3
62	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
63	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
64	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
65	Observation of asymmetric spectrum broadening induced by silver nanoparticles in a heavy-metal oxide glass. Europhysics Letters, 2011, 94, 37011.	2.0	15
66	Experimental evidence of asymmetrical spectrum broadening in a heavy-metal oxide glass doped with silver nanoparticles. , 2011, , .		0
67	Thermo and photochromic properties of Na2Oâ€“WO3â€“SbPO4 glasses. Solid State Ionics, 2010, 181, 1125-1130.	2.7	7
68	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
69	Plasmonic structures fabricated by interference lithography for sensor applications. , 2009, , .		1
70	Measurement of phase and amplitude modulations in Sb-based films. , 2009, , .		1
71	Crystallization study of the (1âˆ’x)Sb2O3â€“(x)SbPO4 glass system. Materials Chemistry and Physics, 2008, 112, 1069-1073.	4.0	6
72	2D Photonic Crystal Layers in Antimony-based films. AIP Conference Proceedings, 2008, , .	0.4	0

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73	Two-dimensional photonic crystals in antimony-based films fabricated by holography. Journal of Applied Physics, 2008, 103, 106101.	2.5	3
74	Antimony Glasses with Large Nonlinear Refractive Indices, Small Two-Photon Absorption Coefficients and Ultrafast Response at Telecom Wavelengths. , 2007, , .		0
75	Glasses in the SbPO4â€“WO3 system. Journal of Non-Crystalline Solids, 2007, 353, 1592-1597.	3.1	30
76	Photochromic properties of tungstate-based glasses. Solid State Ionics, 2007, 178, 871-875.	2.7	37
77	Characterization of the reversible photoinduced optical changes in Sb-based glasses. Journal of Non-Crystalline Solids, 2006, 352, 3535-3539.	3.1	10
78	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
79	Nonresonant third-order nonlinearity of antimony glasses at telecom wavelengths. Journal of Applied Physics, 2006, 100, 116105.	2.5	23
80	Bulk photochromism in a tungstate-phosphate glass: A new optical memory material?. Journal of Chemical Physics, 2006, 125, 161101.	3.0	60
81	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
82	Structural organization and thermal properties of the Sb2O3â€“SbPO4glass system. Journal of Materials Chemistry, 2004, 14, 3398-3405.	6.7	56
83	Ultrafast nonlinearity of antimony polyphosphate glasses. Applied Physics Letters, 2003, 83, 1292-1294.	3.3	40
84	Photoinduced structural changes in antimony polyphosphate based glasses. Journal of Non-Crystalline Solids, 2003, 330, 168-173.	3.1	14
85	Antimony based glasses for photonics ultrafast applications. , 2003, , MT12.		0
86	Scandium fluorophosphate glasses: a structural approach. Comptes Rendus Chimie, 2002, 5, 915-920.	0.5	16
87	Antimony oxide based glasses. Journal of Non-Crystalline Solids, 2001, 284, 110-116.	3.1	103
88	Glasses containing lutetium fluoride. , 1998, , .		0
89	Scandium fluorides. Journal of Alloys and Compounds, 1997, 262-263, 296-298.	5.5	6