

Jesiel F Carvalho

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Electric and dielectric properties of Bi ₁₂ TiO ₂₀ single crystals. Journal of Applied Physics, 2000, 88, 283-287.	2.5	75
2	Dark conductivity, photoconductivity, and light-induced absorption in photorefractive sillenite crystals. Journal of Applied Physics, 2001, 90, 2635-2641.	2.5	43
3	Growth of single-crystal photorefractive fibers of Bi ₁₂ SiO ₂₀ and Bi ₁₂ TiO ₂₀ by the laser-heated pedestal growth method. Journal of Crystal Growth, 1994, 137, 528-534.	1.5	32
4	Direct near infrared photorefractive recording and pre-exposure controlled hole-electron competition with enhanced recording in undoped Bi ₁₂ TiO ₂₀ . Applied Physics B: Lasers and Optics, 2005, 81, 651-655.	2.2	26
5	Phenomenological characterization of photoactive centers in Bi ₁₂ TiO ₂₀ crystals. Journal of Applied Physics, 2007, 101, 043101.	2.5	25
6	Synthesis of YAP nanopowder by a soft chemistry route. Journal of the European Ceramic Society, 2009, 29, 2511-2515.	5.7	24
7	Single crystal EPR study of electronic structure and exchange interactions for copper(II)(l-arginine) ₂ (SO ₄)·(H ₂ O) ₆ : a model system to study exchange interactions between unpaired spins in proteins. Journal of Inorganic Biochemistry, 2005, 99, 415-423.	3.5	22
8	Growth and characterization of photorefractive Bi ₁₂ TiO ₂₀ single crystals. Crystal Research and Technology, 1995, 30, 171-176.	1.3	21
9	Multi-wavelength holography in Bi ₁₂ TiO ₂₀ crystals: Applications in refractometry. Optics Communications, 2006, 263, 189-196.	2.1	21
10	LAP single crystal growth free of microorganisms by an accurately controlled solvent evaporation technique. Journal of Crystal Growth, 1997, 173, 487-491.	1.5	18
11	Optical and magnetic characterization of pure and vanadium-doped Bi ₁₂ TiO ₂₀ sillenite crystals. Optical Materials, 1999, 13, 333-338.	3.6	17
12	Characterization of photorefractive undoped and doped sillenite crystals using holographic and photoconductivity techniques. Journal of Optics, 2008, 10, 104005.	1.5	17
13	Large Bi ₁₂ TiO ₂₀ single crystals: a study of intrinsic defects and growth parameters. Journal of Crystal Growth, 1999, 205, 185-190.	1.5	15
14	On the optical and magnetic studies of YCrO ₃ perovskites. Physica B: Condensed Matter, 2018, 546, 67-72.	2.7	15
15	Synthesis, crystal structure and magnetic properties of a new dinuclear copper(II) amino acid complex [Cu ₂ (l-arg) ₂ ($\frac{1}{4}$ -HPO ₄ -O)($\frac{1}{4}$ -HPO ₄ -O, O $\hat{\in}$ ²)($\frac{1}{4}$ -OH)] $\hat{\sim}$ ·(H ₃ O) ⁺ ·(H ₂ O) ₆ . Polyhedron, 2007, 26, 5001-5008.	2.2	13
16	Structural and spectroscopic properties of Eu ³⁺ doped Y ₄ Al ₂ O ₉ compounds through a soft chemical process. Journal of Luminescence, 2018, 204, 513-519.	3.1	13
17	Synthesis, crystal growth and characterization of gamma-phase bismuth titanium oxide with gallium. Materials Research, 2000, 3, 92-96.	1.3	13
18	Vanadium characterization in BTO: V sillenite crystals. Materials Research, 1999, 2, 87-91.	1.3	12

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19	Electron spin resonance of Cu ²⁺ impurities in L-arginine phosphate monohydrate single crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2002, 63, 1857-1862.	4.0	11
20	Denisiuk-type reflection holography display with sillenite crystals for imaging and interferometry of small objects. <i>Optics Communications</i> , 2008, 281, 408-414.	2.1	11
21	Vanadium-doped photorefractive titanosillenite crystal. <i>Applied Physics B: Lasers and Optics</i> , 2009, 95, 475-482.	2.2	11
22	Structure and magnetism of catena-poly[copper(II)-1/4-dichloro-L-lysine]hemihydrate: Copper chains with monochloride bridges. <i>Polyhedron</i> , 2012, 47, 53-59.	2.2	10
23	Optical properties of lead diborate glass ceramics doped with Ce and Eu. <i>Journal of Non-Crystalline Solids</i> , 2014, 401, 181-185.	3.1	10
24	Crystal growth of Bi ₂ TeO ₅ by a double crucible Czochralski method. <i>Journal of Crystal Growth</i> , 2014, 401, 795-797.	1.5	10
25	Photovoltaic effect in Bi ₂ TeO ₅ photorefractive crystal. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	10
26	The influence of temperature gradients on structural perfection of single-crystal sillenite fibers grown by the LHPG method. <i>Optical Materials</i> , 1995, 4, 521-527.	3.6	9
27	Specific heat measurements in pure and in (Cu, Mn, Fe, Ni)-doped single-crystals of L-arginine phosphate monohydrate. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 862-866.	4.0	9
28	Holographic recording and characterization of photorefractive Bi ₂ TeO ₅ crystals at 633 nm wavelength light. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	9
29	Near-infrared holographic photorefractive recording under applied electric field in undoped Bi ₁₂ TiO ₂₀ sillenite crystal. <i>Optical Materials</i> , 2020, 108, 110398.	3.6	9
30	Temperature and partial oxygen pressure role on the electrical conductivity of Bi ₁₂ Ti _{0.7} Ga _{0.3} O ₂₀ single crystal. <i>Applied Physics Letters</i> , 2000, 77, 4371-4373.	3.3	8
31	Growth and optical characterization of cerium and lead-doped Bi ₁₂ TiO ₂₀ sillenite single crystals. <i>Crystal Research and Technology</i> , 2005, 40, 847-851.	1.3	8
32	Photochromism, bleaching and photorefractive recording in undoped Bi ₁₂ TiO ₂₀ crystals in the visible and near infrared wavelength range. <i>Optical Materials</i> , 2007, 29, 462-467.	3.6	8
33	Guanidinium substitution-dependent phase transitions, ionic conductivity, and dielectric properties of MAPbI ₃ . <i>Chemical Communications</i> , 2022, 58, 2212-2215.	4.1	8
34	Redetermination of bis(L-asparaginato)copper(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2004, 60, m1428-m1430.	0.2	7
35	EPR study of Cu(II) dopant ions in single crystals of bis(L-asparaginato)Zn(II). <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 745-750.	4.0	7
36	Growth, EPR and optical absorption spectra of L-threonine single crystals doped with Cu ²⁺ ions. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 586-593.	4.0	7

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37	Synthesis of YAP phase by a polymeric method and phase progression mechanisms. Journal of Thermal Analysis and Calorimetry, 2009, 96, 891-896.	3.6	7
38	The effect of Cu II ions in l- asparagine single crystals. Physica B: Condensed Matter, 2016, 501, 84-89.	2.7	7
39	Nonlinear photovoltaic effect in Sillenite photorefractive crystals. Optical Materials, 2017, 66, 72-78.	3.6	7
40	Surface analysis by two-diode laser photorefractive holography. Applied Physics B: Lasers and Optics, 2007, 87, 417-423.	2.2	6
41	Photoinduced Schottky Barrier in Photorefractive Materials. Physical Review Letters, 2010, 104, 116601.	7.8	6
42	Electro-optic coefficient and wavelength dispersion in sillenite crystals. Applied Physics B: Lasers and Optics, 2011, 105, 301-304.	2.2	6
43	Photoconductivity and photoconversion at a photorefractive thin crystal plate. Optical Materials, 2016, 55, 160-163.	3.6	6
44	Resonance running hologram velocity nonlinearity dependence upon light intensity in photorefractive crystals. Applied Physics Letters, 2013, 102, .	3.3	5
45	Recording and erasure of photorefractive holograms in undoped BTO crystal at moderate to high intensities of 6397â€‰nm laser under action of 532â€‰nm laser pre-illumination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 1919.		5
46	Synthesis and crystal growth of sillenite phases in the Bi ₂ O ₃ -TiO ₂ -Nb ₂ O ₅ system. Crystal Research and Technology, 2004, 39, 868-872.	1.3	4
47	Experimental determination of effective electro-optic coefficient and electric screening field factor in the electrically induced birefringent Bi ₁₂ TiO ₂₀ crystal by using an oblique incidence setup. Optics Communications, 2013, 295, 197-202.	2.1	4
48	Nonlinear light-induced absorption in Bi ₂ TeO ₅ photorefractive crystals. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2677.	2.1	4
49	Electrical and photoelectrical properties of Bi ₂ TeO ₅ single crystals. Optical Materials, 2019, 94, 398-402.	3.6	4
50	Electron paramagnetic resonance study of ternary CuII compounds with glycine and phenanthroline. Journal of Chemical Sciences, 2014, 126, 255-264.	1.5	3
51	NIR luminescence from erbium doped (100 [~] x)SiO ₂ : x ZnO powders obtained by soft chemical synthesis. Journal of Luminescence, 2016, 170, 663-670.	3.1	3
52	The relation between temperature gradients and structural perfection of single-crystal Bi ₁₂ SiO ₂₀ and Bi ₁₂ TiO ₂₀ fibers grown by the LHPG method. Optical Materials, 1995, 4, 433-436.	3.6	2
53	ConstruÃ§Ã£o de uma fonte de corrente e de uma sonda para medida de condutividade pelo mÃ©todo da sonda de quatro pontas. Quimica Nova, 2003, 26, 754-756.	0.3	2
54	New solvates of the drug naltrexone: protonation, conformation and interplay of synthons. Acta Crystallographica Section C, Structural Chemistry, 2018, 74, 274-282.	0.5	2

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55	Development of oxyfluoroborate glass ceramics doped with Er ³⁺ and Yb ³⁺ . Journal of Materials Science: Materials in Electronics, 2018, 29, 5472-5479.	2.2	2
56	Synthesis and visible down- and up-conversion emissions from Yb ³⁺ /Ho ³⁺ /Tm ³⁺ Co-Doped Y ₄ Al ₂ O ₉ (YAM) nanocrystalline particles. Journal of Luminescence, 2020, 227, 117554.	3.1	2
57	Microstructure of single-crystal sillenite fibers. Radiation Effects and Defects in Solids, 1995, 134, 209-211.	1.2	1
58	<title>Stabilized holographic setup for the real-time continuous measurement of surface vibrational mode patterns</title>. , 1996, 2868, 205.		1
59	Compact setup for reflection holography with Bi ₁₂ TiO ₂₀ crystals. AIP Conference Proceedings, 2008, , .	0.4	1
60	Holographic recording in photorefractive Bi ₂ TeO ₅ crystals at high intensity. , 2013, , .		1
61	Crystal growth and optical characterization of chromium-doped L-arginine phosphate monohydrate. Physica B: Condensed Matter, 2018, 545, 390-396.	2.7	1
62	Crystal growth and optical characterization of terbium and niobium doped BTO single crystals. Optica Pura Y Aplicada, 2017, 50, 411-416.	0.1	1
63	Characterization of Photorefractive Materials Using Holographic and Photoconductivity Techniques. AIP Conference Proceedings, 2008, , .	0.4	0
64	Study of Crystalline Phases in the 3Bi ₂ O ₃ :2TeO ₂ and Bi _{6-x} Tb _x Te ₂ O ₁₃ Systems for Fuel Cell Applications. , 2019, , .		0
65	Phenomenological characterization of photoactive centers in undoped Bi ₁₂ TiO ₂₀ crystals using optical and electrical techniques. , 2005, , .		0
66	Synthesis and Crystal Growth of Bi ₁₂ [Ti(1-x)V _{0.8x}]O ₂₀ . , 2005, , .		0
67	Photoelectric Conversion Effect in Non-Photovoltaic Photorefractive Materials. , 2014, , .		0