

Dos Santos A O

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Growth of complex crystal on biopolymer surface: Synthesis and characterization. <i>Polymers and Polymer Composites</i> , 2022, 30, 096739112210898.	1.0	0
2	Synthesis, characterization, and thermal and computational investigations of the L-histidine bis(fluoride) crystal. <i>Journal of Molecular Modeling</i> , 2022, 28, .	0.8	8
3	Crystalline Films of L-Threonine Complexed with Copper (II) Dispersed in a Galactomannan Solution: A Structural, Vibrational, and Thermal Study. <i>Polymer Engineering and Science</i> , 2020, 60, 71-77.	1.5	2
4	Low-wavenumber Raman spectra of L-tyrosine, L-tyrosine hydrochloride, and L-tyrosine hydrobromide crystals at high temperatures. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 136, 109129.	1.9	4
5	Growth, structural, vibrational, DFT and thermal studies of bis(L-alanine) nickel(II) dihydrate crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 141, 109435.	1.9	2
6	Pressure-induced phase transitions in DL-glutamic acid monohydrate crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 230, 118059.	2.0	3
7	A new salt of clofazimine to improve leprosy treatment. <i>Journal of Molecular Structure</i> , 2020, 1214, 128226.	1.8	8
8	Análise comparativa da síntese de hidroxiapatita via estado sólido. <i>Revista Materia</i> , 2020, 25, .	0.1	2
9	Síntese e estudo das propriedades estruturais, vibracionais e térmicas do monocristal de L-Treonina complexado com Cu^{2+} pelo método de evaporação lenta do solvente. <i>Revista Materia</i> , 2020, 25, .	0.1	0
10	Large magnetocaloric effect in ErCoSn driven by metamagnetic phase transition and short-range ferromagnetic correlations. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 492, 165653.	1.0	9
11	Optical vibrational properties of Bi ₂ -Ca Sn ₂ O ₇ /2 ceramics. <i>Journal of Alloys and Compounds</i> , 2019, 786, 1030-1039.	2.8	1
12	New structural phases of [bis(L-alaninato) diaqua] nickel(II) dihydrate crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 214, 294-301.	2.0	8
13	Assessment of phase transition and thermal expansion coefficients by means of secondary multiple reflections of Renninger scans. <i>Journal of Applied Crystallography</i> , 2019, 52, 1271-1279.	1.9	3
14	Unusual effects of manual grinding and subsequent annealing process observed in Gd ₅ O ₉ Ge ₂ O ₃ Si _{1.88} compound. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	1
15	Synthesis of a Glibenclamide Cocrystal: Full Spectroscopic and Thermal Characterization. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 1597-1604.	1.6	16
16	On the quantitative phase analysis and amorphous content of triacylglycerols materials by X-ray Rietveld method. <i>Chemistry and Physics of Lipids</i> , 2018, 212, 51-60.	1.5	26
17	Structural disorder effects on the magnetic entropy change of DyCo ₂ intermetallic: Mechanical milling and the weakening of the itinerant electron metamagnetism mechanism. <i>Intermetallics</i> , 2018, 94, 1-9.	1.8	5
18	Characterization of the Structural Environment of Dithionate Ions Associated with Their Role in the Crystal Habit Modification of Sodium Chlorate. <i>Crystal Growth and Design</i> , 2018, 18, 3328-3338.	1.4	7

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19	High-temperature study of beta-alanine crystals. <i>Vibrational Spectroscopy</i> , 2017, 89, 69-74.	1.2	7
20	Statistical process control of cocrystallization processes: A comparison between OPLS and PLS. <i>International Journal of Pharmaceutics</i> , 2017, 520, 29-38.	2.6	22
21	Low-temperature Raman spectra of the 2-(\pm -methylbenzylamino)-5-nitropyridine crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 183, 209-217.	2.0	1
22	Magnetocaloric effect investigation in the ferromagnetic Eu_2CuSi_3 compound. <i>Intermetallics</i> , 2017, 88, 36-40.	1.8	7
23	Magnetic and magnetocaloric properties of DyMn_2Si_2 compound with multiple magnetic phase transition. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 424, 84-88.	1.0	20
24	Millisecond direct measurement of the magnetocaloric effect of a Fe_2P -based compound by the mirage effect. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	23
25	Magnetocaloric effect and evidence of superparamagnetism in $\text{GdA}_{1-x}\text{B}_x$ nanocrystallites: A magnetic-structural correlation. <i>Physical Review B</i> , 2016, 93, .	1.1	13
26	Influence of chemical doping and hydrostatic pressure on the magnetic properties of $\text{Mn}_{1-x}\text{Fe}_x$ magnetocaloric compounds. <i>Physical Review B</i> , 2016, 93, .	1.1	8
27	Time and temperature induced phase transformation in $\text{L}\alpha$ -isoleucine hydrochloride monohydrated crystal. <i>Crystal Research and Technology</i> , 2016, 51, 738-741.	0.6	2
28	Experimental evidence of transition between dynamical and kinematical diffraction regimes in ion-implanted Si observed through X-ray multiple-beam diffraction mappings. <i>Applied Physics Letters</i> , 2016, 109, 141901.	1.5	2
29	High pressure Raman spectra of monoglycine nitrate single crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 161, 109-114.	2.0	11
30	Magnetocaloric effect of the ternary Dy, Ho and Er platinum gallides. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 401, 1088-1092.	1.0	25
31	Batch Statistical Process Monitoring Approach to a Cocrystallization Process. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 4099-4108.	1.6	21
32	Investigations in $\text{MnAs}_{1-x}\text{Sb}_x$: Experimental validation of a new magnetocaloric composite. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 374, 342-344.	1.0	7
33	Hard fats as additives in palm oil and its relationships to crystallization process and polymorphism. <i>LWT - Food Science and Technology</i> , 2015, 63, 1163-1170.	2.5	55
34	Structural, vibrational and thermal characterization of phase transformation in l-histidinium bromide monohydrate single crystals. <i>Materials Chemistry and Physics</i> , 2015, 165, 150-155.	2.0	9
35	High pressure Raman spectra of l-glutamic acid hydrochloride crystal. <i>Vibrational Spectroscopy</i> , 2014, 72, 15-19.	1.2	8
36	Low temperature properties of winterized methyl babassu biodiesel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 635-640.	2.0	12

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37	Anisotropic magnetocaloric effect in ErGa ₂ and HoGa ₂ single-crystals. <i>Journal of Alloys and Compounds</i> , 2014, 582, 461-465.	2.8	19
38	On the solid-liquid equilibrium of binary mixtures of fatty alcohols and fatty acids. <i>Fluid Phase Equilibria</i> , 2014, 366, 88-98.	1.4	56
39	On the solid-liquid phase diagrams of binary mixtures of even saturated fatty alcohols: Systems exhibiting peritectic reaction. <i>Thermochimica Acta</i> , 2014, 589, 137-147.	1.2	29
40	A PAT approach for the on-line monitoring of pharmaceutical co-crystals formation with near infrared spectroscopy. <i>International Journal of Pharmaceutics</i> , 2014, 471, 478-484.	2.6	39
41	On the effect of Au ²⁺ ion irradiation in an amorphous Fe-Si thin layer synthesized by ion implantation: a high resolution X-ray diffraction study. <i>CrystEngComm</i> , 2013, 15, 2251-2259.	1.3	1
42	Microstructure and Thermal Profile of Structured Lipids Produced by Continuous Enzymatic Interesterification. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2013, 90, 631-639.	0.8	13
43	Hardfats as crystallization modifiers of cocoa butter. <i>European Journal of Lipid Science and Technology</i> , 2013, 115, 1462-1473.	1.0	31
44	Lattice strain distribution resolved by X-ray Bragg-surface diffraction in an Si matrix distorted by embedded FeSi ₂ nanoparticles. <i>Journal of Applied Crystallography</i> , 2013, 46, 1796-1804.	1.9	9
45	Magnetic properties and magnetocaloric effect of the HoAgGa compound. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	34
46	Physicochemical properties of Brazilian cocoa butter and industrial blends. Part II Microstructure, polymorphic behavior and crystallization characteristics. <i>Grasas Y Aceites</i> , 2012, 63, 89-99.	0.3	5
47	Temperature-induced phase transition in methyl dopa sesquihydrate revealed via X-ray diffraction, thermal analysis and Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2012, 62, 59-63.	1.2	2
48	Structural, optical and electrical properties of indium nitride polycrystalline films. <i>Thin Solid Films</i> , 2012, 520, 4848-4852.	0.8	9
49	Structure-property relations in crystalline l-leucine obtained from calorimetry, X-rays, neutron and Raman scattering. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6576.	1.3	22
50	Study of ethylic Babassu biodiesel properties at low temperatures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 106, 363-367.	2.0	7
51	X-ray phase measurements as a probe of small structural changes in doped nonlinear optical crystals. <i>Journal of Applied Crystallography</i> , 2011, 44, 93-101.	1.9	13
52	Characterization of the time-dependent L-asparagine monohydrate crystal phase transition. <i>Journal of Applied Crystallography</i> , 2011, 44, 954-957.	1.9	13
53	Magnetic properties of metastable Gd-Cr alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 2005-2011.	1.0	4
54	Crystallographic and ¹¹⁹ Sn and ¹⁵⁵ Gd Mössbauer analyses of Gd ₅ Ge ₂ (Si _{1-x} Al _x) ₂ (x = 0.23 and x = 0.40). <i>Hyperfine Interactions</i> , 2010, 195, 191-197.	0.2	2

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55	Temperature-dependent Raman scattering of KDP:Mn (0.9% weight of Mn) crystal. Journal of Raman Spectroscopy, 2010, 41, 1318-1322.	1.2	7
56	Thermal annealing effects on the magnetic behavior of Ce ₂ NiSi ₃ . Journal of Magnetism and Magnetic Materials, 2010, 322, 3192-3195.	1.0	13
57	Tripalmitin and monoacylglycerols as modifiers in the crystallisation of palm oil. Food Chemistry, 2010, 122, 1185-1192.	4.2	101
58	KDP:Mn piezoelectric coefficients obtained by X-ray diffraction. Journal of Synchrotron Radiation, 2010, 17, 810-812.	1.0	2
59	Study of the magnetocaloric properties of the antiferromagnetic compounds R ₂ Ga ₂ (R = Ce, Pr, Nd, Dy). J. Appl. Phys. 107, 074314 (2010).	0.7	14
60	Experimental Evidence for the Influence of Mn ³⁺ Concentration on the Impurity Incorporation and Habit Modification Mechanism of Potassium Dihydrogen Phosphate. Crystal Growth and Design, 2010, 10, 1053-1058.	1.4	5
61	Direct Observation of Tetragonal Distortion in Epitaxial Structures through Secondary Peak Split in a Synchrotron Radiation Renninger Scan. Crystal Growth and Design, 2010, 10, 3436-3441.	1.4	13
62	X-ray Bragg-Surface Diffraction: A Tool to Study In-Plane Strain Anisotropy Due to Ion-Beam-Induced Epitaxial Crystallization in Fe ⁺ -Implanted Si(001). Crystal Growth and Design, 2010, 10, 4363-4369.	1.4	4
63	Solid-Liquid Equilibrium of Tristearin with Refined Rice Bran and Palm Oils. Journal of Chemical & Engineering Data, 2010, 55, 5078-5082.	1.0	10
64	Synchrotron x-ray multiple diffraction in the study of Fe ⁺ ion implantation in Si(001). Journal Physics D: Applied Physics, 2009, 42, 195401.	1.3	7
65	A study of pressure and chemical substitution effects on the magnetocaloric properties of the ferromagnetic compound U ₂ Ga ₂ . Journal of Physics Condensed Matter, 2009, 21, 276001.	0.7	3
66	A General Approach to First Order Phase Transitions and the Anomalous Behavior of Coexisting Phases in the Magnetic Case. Advanced Functional Materials, 2009, 19, 942-949.	7.8	15
67	Thermal Behavior, Microstructure, Polymorphism, and Crystallization Properties of Zero Trans Fats from Soybean Oil and Fully Hydrogenated Soybean Oil. Food Biophysics, 2009, 4, 106-118.	1.4	50
68	Hybrid reflections in InGaP/GaAs(001) by synchrotron radiation multiple diffraction. Physica Status Solidi (B): Basic Research, 2009, 246, 544-547.	0.7	3
69	Magnetic properties of (Ce _{1-x} La _x)PdIn ₂ . Physica B: Condensed Matter, 2009, 404, 3018-3020.	1.3	2
70	Study of the magnetic and calorimetric properties of (U _{1-x} R _x)Cu ₅ Al (R=La and Y). Physica B: Condensed Matter, 2009, 404, 3176-3178.	1.3	0
71	Influence of chemical interesterification on thermal behavior, microstructure, polymorphism and crystallization properties of canola oil and fully hydrogenated cottonseed oil blends. Food Research International, 2009, 42, 1153-1162.	2.9	52
72	An instrument for combining x-ray multiple diffraction and x-ray topographic imaging for examining crystal microcrystallography and perfection. Review of Scientific Instruments, 2009, 80, 033705.	0.6	1

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73	Evidence of mixed valence in single crystals. <i>Physica B: Condensed Matter</i> , 2008, 403, 946-947.	1.3	2
74	Effect of Ni(II) doping on the structure of L-histidine hydrochloride monohydrate crystals. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 275209.	0.7	12
75	Evidence for the monoclinic-tetragonal phase coexistence in $\text{Pb}(\text{Zr}_{0.53}\text{Ti}_{0.47})\text{O}_3$ thin films. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 415203.	0.7	12
76	On the properties of the eutectic alloy $\text{Al}_3(\text{Nb,Cr})+\text{Cr}(\text{Al,Nb})$. <i>Journal of Alloys and Compounds</i> , 2008, 464, 162-167.	2.8	1
77	Magnetic and magnetocaloric properties on the $\text{U}_{1-y}\text{RyGa}_2$ (R=Er and Dy) compound. <i>Journal of Applied Physics</i> , 2008, 103, 07B308.	1.1	3
78	Magnetism in Gd_xW films. <i>Journal of Applied Physics</i> , 2008, 103, 093916.	1.1	12
79	Piezoelectric coefficients of L-histidine hydrochloride monohydrate obtained by synchrotron x-ray Renninger scanning. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 106218.	0.7	7
80	Ambient pressure colossal magnetocaloric effect in $\text{Mn}_{1-x}\text{Cu}_x\text{As}$ compounds. <i>Applied Physics Letters</i> , 2007, 90, 242507.	1.5	48
81	Structural and magnetic study of the MnAs magnetocaloric compound. <i>Materials Research</i> , 2006, 9, 111-114.	0.6	29
82	Ambient pressure colossal magnetocaloric effect tuned by composition in $\text{Mn}_{1-x}\text{Fe}_x\text{As}$. <i>Nature Materials</i> , 2006, 5, 802-804.	13.3	197
83	Copper-vanadium mixed oxide thin film electrodes. <i>Journal of Power Sources</i> , 2006, 162, 679-684.	4.0	3
84	Structural and electrochemical behavior of tungsten oxide obtained by solid state reaction. <i>Solid State Ionics</i> , 2006, 177, 697-701.	1.3	9
85	Magnetization and specific heat in $\text{U}_{1-x}\text{La}_x\text{Ga}_2$ and magnetocaloric effect in UGa_2 . <i>Journal of Applied Physics</i> , 2005, 97, 10A921.	1.1	7
86	Synchrotron radiation multiple diffraction in the characterization of the PrAl_2 magnetocaloric compound. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 2154-2156.	1.0	2
87	Hysteresis-like Behavior in MBANP Crystals. <i>Crystal Growth and Design</i> , 2004, 4, 1079-1081.	1.4	3
88	Piezoelectric coefficients of L-arginine hydrochloride monohydrate obtained by X-ray multiple diffraction using synchrotron radiation. <i>Journal of Applied Crystallography</i> , 2003, 36, 1348-1351.	1.9	13
89	X-ray multiple diffraction as a probe to determine all the piezoelectric coefficients of a crystal: Rochelle salt case. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 7835-7842.	0.7	8
90	Synchrotron radiation X-ray multiple diffraction in the study of KDP phase transition induced by electric field. <i>Materials Research</i> , 2001, 4, 43-46.	0.6	0

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91	Moisture profile measurements of concrete samples in vertical water flow by gamma ray transmission method. Radiation Physics and Chemistry, 2001, 61, 567-569.	1.4	15
92	EDXRF study of Tupi-Guarani archaeological ceramics. Radiation Physics and Chemistry, 2001, 61, 711-712.	1.4	14
93	Rochelle salt piezoelectric coefficients obtained by x-ray multiple diffraction. Journal of Physics Condensed Matter, 2001, 13, 10497-10505.	0.7	13