Dos Santos A O

List of Publications by Year
in descending order

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93 papers	1,378 citations	394421 19 h-index	395702 33 g-index
94 all docs	94 docs citations	94 times ranked	1476 citing authors

#	Article	IF	Citations
1	Growth of complex crystal on biopolymer surface: Synthesis and characterization. Polymers and Polymer Composites, 2022, 30, 096739112210898.	1.9	0
2	Synthesis, characterization, and thermal and computational investigations of the l-histidine bis(fluoride) crystal. Journal of Molecular Modeling, 2022, 28, .	1.8	8
3	Crystalline Films of Lâ€Threonine Complexed with Copper (II) Dispersed in a Galactomannan Solution: A Structural, Vibrational, and Thermal Study. Polymer Engineering and Science, 2020, 60, 71-77.	3.1	2
4	Low-wavenumber Raman spectra of l-tyrosine, l-tyrosine hydrochloride, and l-tyrosine hydrobromide crystals at high temperatures. Journal of Physics and Chemistry of Solids, 2020, 136, 109129.	4.0	4
5	Growth, structural, vibrational, DFT and thermal studies of bis(Î²-alanine) nickel(II) dihydrate crystals. Journal of Physics and Chemistry of Solids, 2020, 141, 109435.	4.0	2
6	Pressure-induced phase transitions in DL-glutamic acid monohydrate crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 230, 118059.	3.9	3
7	A new salt of clofazimine to improve leprosy treatment. Journal of Molecular Structure, 2020, 1214, 128226.	3.6	8
8	AnÃ¡lise comparativa da sÃntese de hidroxiapatita via estado sÃ³lido. Revista Materia, 2020, 25, .	0.2	2
9	SÃntese e estudo das propriedades estruturais, vibracionais e tÃ©rmicas do monocristal de L-Treonina complexado com Ãon Cu2+ pelo mÃ©todo de evaporaÃ§Ã£o lenta do solvente. Revista Materia, 2020, 25, .	0.2	0
10	Large magnetocaloric effect in ErCoSn driven by metamagnetic phase transition and short-range ferromagnetic correlations. Journal of Magnetism and Magnetic Materials, 2019, 492, 165653.	2.3	9
11	Optical vibrational properties of Bi2-Ca Sn2O7-/2 ceramics. Journal of Alloys and Compounds, 2019, 786, 1030-1039.	5.5	1
12	New structural phases of [bis(Lâ€alaninato) diaqua] nickel(II) dihydrate crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 214, 294-301.	3.9	8
13	Assessment of phase transition and thermal expansion coefficients by means of secondary multiple reflections of Renninger scans. Journal of Applied Crystallography, 2019, 52, 1271-1279.	4.5	3
14	Unusual effects of manual grinding and subsequent annealing process observed in Gd5.09Ge2.03Si1.88 compound. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	1
15	Synthesis of a Glibenclamide Cocrystal: Full Spectroscopic and Thermal Characterization. Journal of Pharmaceutical Sciences, 2018, 107, 1597-1604.	3.3	16
16	On the quantitative phase analysis and amorphous content of triacylglycerols materials by X-ray Rietveld method. Chemistry and Physics of Lipids, 2018, 212, 51-60.	3.2	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. Intermetallics, 2018, 94, 1-9.	3.9	5
18	Characterization of the Structural Environment of Dithionate Ions Associated with Their Role in the Crystal Habit Modification of Sodium Chlorate. Crystal Growth and Design, 2018, 18, 3328-3338.	3.0	7

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19	High-temperature study of beta-alanine crystals. Vibrational Spectroscopy, 2017, 89, 69-74.	2.2	7
20	Statistical process control of cocrystallization processes: A comparison between OPLS and PLS. International Journal of Pharmaceutics, 2017, 520, 29-38.	5.2	22
21	Low-temperature Raman spectra of the 2-(Î±-methylbenzylamino)-5-nitropyridine crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 183, 209-217.	3.9	1
22	Magnetocaloric effect investigation in the ferromagnetic Eu 2 CuSi 3 compound. Intermetallics, 2017, 88, 36-40.	3.9	7
23	Magnetic and magnetocaloric properties of DyMn 2 Si 2 compound with multiple magnetic phase transition. Journal of Magnetism and Magnetic Materials, 2017, 424, 84-88.	2.3	20
24	Millisecond direct measurement of the magnetocaloric effect of a Fe2P-based compound by the mirage effect. Applied Physics Letters, 2016, 108, .	3.3	23
25	Magnetocaloric effect and evidence of superparamagnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>GdA</mml:mi><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>nanocrystallites: A magnetic-structural correlation. Physical Review B, 2016, 93, .	3.2	13
26	Influence of chemical doping and hydrostatic pressure on the magnetic properties ofMn1â^'xFexAsmagnetocaloric compounds. Physical Review B, 2016, 93, .	3.2	8
27	Time and temperature induced phase transformation in Lâ€isoleucine hydrochloride monohydrated crystal. Crystal Research and Technology, 2016, 51, 738-741.	1.3	2
28	Experimental evidence of transition between dynamical and kinematical diffraction regimes in ion-implanted Si observed through X-ray multiple-beam diffraction mappings. Applied Physics Letters, 2016, 109, 141901.	3.3	2
29	High pressure Raman spectra of monoglycine nitrate single crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 161, 109-114.	3.9	11
30	Magnetocaloric effect of the ternary Dy, Ho and Er platinum gallides. Journal of Magnetism and Magnetic Materials, 2016, 401, 1088-1092.	2.3	25
31	Batch Statistical Process Monitoring Approach to a Cocrystallization Process. Journal of Pharmaceutical Sciences, 2015, 104, 4099-4108.	3.3	21
32	Investigations in MnAs1â^'xSbx: Experimental validation of a new magnetocaloric composite. Journal of Magnetism and Magnetic Materials, 2015, 374, 342-344.	2.3	7
33	Hard fats as additives in palm oil and its relationships to crystallization process and polymorphism. LWT - Food Science and Technology, 2015, 63, 1163-1170.	5.2	55
34	Structural, vibrational and thermal characterization of phase transformation in l-histidinium bromide monohydrate single crystals. Materials Chemistry and Physics, 2015, 165, 150-155.	4.0	9
35	High pressure Raman spectra of l-glutamic acid hydrochloride crystal. Vibrational Spectroscopy, 2014, 72, 15-19.	2.2	8
36	Low temperature properties of winterized methyl babassu biodiesel. Journal of Thermal Analysis and Calorimetry, 2014, 115, 635-640.	3.6	12

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37	Anisotropic magnetocaloric effect in ErGa2 and HoGa2 single-crystals. Journal of Alloys and Compounds, 2014, 582, 461-465.	5.5	19
38	On the solidâ€“liquid equilibrium of binary mixtures of fatty alcohols and fatty acids. Fluid Phase Equilibria, 2014, 366, 88-98.	2.5	56
39	On the solidâ€“liquid phase diagrams of binary mixtures of even saturated fatty alcohols: Systems exhibiting peritectic reaction. Thermochimica Acta, 2014, 589, 137-147.	2.7	29
40	A PAT approach for the on-line monitoring of pharmaceutical co-crystals formation with near infrared spectroscopy. International Journal of Pharmaceutics, 2014, 471, 478-484.	5.2	39
41	On the effect of Au²⁺ion irradiation in an amorphous Feâ€“Si thin layer synthesized by ion implantation: a high resolution X-ray diffraction study. CrystEngComm, 2013, 15, 2251-2259.	2.6	1
42	Microstructure and Thermal Profile of Structured Lipids Produced by Continuous Enzymatic Interesterification. JAOCS, Journal of the American Oil Chemists' Society, 2013, 90, 631-639.	1.9	13
43	Hardfats as crystallization modifiers of cocoa butter. European Journal of Lipid Science and Technology, 2013, 115, 1462-1473.	1.5	31
44	Lattice strain distribution resolved by X-ray Bragg-surface diffraction in an Si matrix distorted by embedded FeSi₂nanoparticles. Journal of Applied Crystallography, 2013, 46, 1796-1804.	4.5	9
45	Magnetic properties and magnetocaloric effect of the HoAgGa compound. Applied Physics Letters, 2013, 103, .	3.3	34
46	Physicochemical properties of Brazilian cocoa butter and industrial blends. Part II Microstructure, polymorphic behavior and crystallization characteristics. Grasas Y Aceites, 2012, 63, 89-99.	0.9	5
47	Temperature-induced phase transition in methyldopa sesquihydrate revealed via X-ray diffraction, thermal analysis and Raman spectroscopy. Vibrational Spectroscopy, 2012, 62, 59-63.	2.2	2
48	Structural, optical and electrical properties of indium nitride polycrystalline films. Thin Solid Films, 2012, 520, 4848-4852.	1.8	9
49	Structureâ€“property relations in crystalline l-leucine obtained from calorimetry, X-rays, neutron and Raman scattering. Physical Chemistry Chemical Physics, 2011, 13, 6576.	2.8	22
50	Study of ethylic Babassu biodiesel properties at low temperatures. Journal of Thermal Analysis and Calorimetry, 2011, 106, 363-367.	3.6	7
51	X-ray phase measurements as a probe of small structural changes in doped nonlinear optical crystals. Journal of Applied Crystallography, 2011, 44, 93-101.	4.5	13
52	Characterization of the time-dependent<scp>L</scp>-asparagine monohydrate crystal phase transition. Journal of Applied Crystallography, 2011, 44, 954-957.	4.5	13
53	Magnetic properties of metastable Gdâ€“Cr alloys. Journal of Magnetism and Magnetic Materials, 2011, 323, 2005-2011.	2.3	4
54	Crystallographic and 119Sn and 155Gd MÃ¶ssbauer analyses of Gd5Ge2(Si1â€‰â^'â€‰xSnx)2 (x = 0.23 and x = 0.40). Hyperfine Interactions, 2010, 195, 191-197.	0.5	2

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55	Temperatureâ€dependent Raman scattering of KDP:Mn (0.9% weight of Mn) crystal. Journal of Raman Spectroscopy, 2010, 41, 1318-1322.	2.5	7
56	Thermal annealing effects on the magnetic behavior of Ce2NiSi3. Journal of Magnetism and Magnetic Materials, 2010, 322, 3192-3195.	2.3	13
57	Tripalmitin and monoacylglycerols as modifiers in the crystallisation of palm oil. Food Chemistry, 2010, 122, 1185-1192.	8.2	101
58	KDP:Mn piezoelectric coefficients obtained by X-ray diffraction. Journal of Synchrotron Radiation, 2010, 17, 810-812.	2.4	2
59	Study of the magnetocaloric properties of the antiferromagnetic compounds RGa2(R = Ce, Pr, Nd, Dy,) Tj ETQq1 1 0.784314 rgBT /Ov	1.8	14
60	Experimental Evidence for the Influence of Mn³⁺ Concentration on the Impurity Incorporation and Habit Modification Mechanism of Potassium Dihydrogen Phosphate. Crystal Growth and Design, 2010, 10, 1053-1058.	3.0	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.	3.0	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.	3.0	4
63	Solidâ^'Liquid Equilibrium of Tristearin with Refined Rice Bran and Palm Oils. Journal of Chemical & Engineering Data, 2010, 55, 5078-5082.	1.9	10
64	Synchrotron x-ray multiple diffraction in the study of Fe+ion implantation in Si(0â€‰0â€‰1). Journal Physics D: Applied Physics, 2009, 42, 195401.	2.8	7
65	A study of pressure and chemical substitution effects on the magnetocaloric properties of the ferromagnetic compound UGa₂. Journal of Physics Condensed Matter, 2009, 21, 276001.	1.8	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.	14.9	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.	3.0	50
68	Hybrid reflections in InGaP/GaAs(001) by synchrotron radiation multiple diffraction. Physica Status Solidi (B): Basic Research, 2009, 246, 544-547.	1.5	3
69	Magnetic properties of (Ce 1â^' x La x)PdIn 2. Physica B: Condensed Matter, 2009, 404, 3018-3020.	2.7	2
70	Study of the magnetic and calorimetric properties of (U 1â^' x R x)Cu 5 Al (R=La and Y). Physica B: Condensed Matter, 2009, 404, 3176-3178.	2.7	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.	6.2	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.	1.3	1

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73	Evidence of mixed valence in single crystals. Physica B: Condensed Matter, 2008, 403, 946-947.	2.7	2
74	Effect of Ni(II) doping on the structure of L-histidine hydrochloride monohydrate crystals. Journal of Physics Condensed Matter, 2008, 20, 275209.	1.8	12
75	Evidence for the monoclinicâ€“tetragonal phase coexistence in Pb(Zr_{0.53}Ti_{0.47})O₃thin films. Journal of Physics Condensed Matter, 2008, 20, 415203.	1.8	12
76	On the properties of the eutectic alloy Al3(Nb,Cr)+Cr(Al,Nb). Journal of Alloys and Compounds, 2008, 464, 162-167.	5.5	1
77	Magnetic and magnetocaloric properties on the U1â^'yRyGa2 (R=Er and Dy) compound. Journal of Applied Physics, 2008, 103, 07B308.	2.5	3
78	Magnetism in Gdâ€“W films. Journal of Applied Physics, 2008, 103, 093916.	2.5	12
79	Piezoelectric coefficients of L-histidine hydrochloride monohydrate obtained by synchrotron x-ray Renninger scanning. Journal of Physics Condensed Matter, 2007, 19, 106218.	1.8	7
80	Ambient pressure colossal magnetocaloric effect in Mn1â^'xCuxAs compounds. Applied Physics Letters, 2007, 90, 242507.	3.3	48
81	Structural and magnetic study of the MnAs magnetocaloric compound. Materials Research, 2006, 9, 111-114.	1.3	29
82	Ambient pressure colossal magnetocaloric effect tuned by composition in Mn1â^'xFe x As. Nature Materials, 2006, 5, 802-804.	27.5	197
83	Copperâ€“vanadium mixed oxide thin film electrodes. Journal of Power Sources, 2006, 162, 679-684.	7.8	3
84	Structural and electrochemical behavior of tungsten oxide obtained by solid state reaction. Solid State Ionics, 2006, 177, 697-701.	2.7	9
85	Magnetization and specific heat in U1â^'xLaxGa2 and magnetocaloric effect in UGa2. Journal of Applied Physics, 2005, 97, 10A921.	2.5	7
86	Synchrotron radiation multiple diffraction in the characterization of the PrAl2 magnetocaloric compound. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2154-2156.	2.3	2
87	Hysteresis-like Behavior in MBANP Crystals. Crystal Growth and Design, 2004, 4, 1079-1081.	3.0	3
88	Piezoelectric coefficients ofL-arginine hydrochloride monohydrate obtained by X-ray multiple diffraction using synchrotron radiation. Journal of Applied Crystallography, 2003, 36, 1348-1351.	4.5	13
89	X-ray multiple diffraction as a probe to determine all the piezoelectric coefficients of a crystal: Rochelle salt case. Journal of Physics Condensed Matter, 2003, 15, 7835-7842.	1.8	8
90	Synchrotron radiation X-ray multiple diffraction in the study of KDP phase transition induced by electric field. Materials Research, 2001, 4, 43-46.	1.3	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.	2.8	15
92	EDXRF study of Tupi-Guarani archaeological ceramics. Radiation Physics and Chemistry, 2001, 61, 711-712.	2.8	14
93	Rochelle salt piezoelectric coefficients obtained by x-ray multiple diffraction. Journal of Physics Condensed Matter, 2001, 13, 10497-10505.	1.8	13