

Antonio M Dos Santos

List of Publications by Year in descending order

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304743

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81
all docs

81
docs citations

81
times ranked

2952
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic structure of antiferromagnetic high-pressure phases of dysprosium. Journal of Magnetism and Magnetic Materials, 2022, 545, 168749.	2.3	4
2	Peculiarities of the phase transformation dynamics in bulk FeRh based alloys from magnetic and structural measurements. Journal of Magnetism and Magnetic Materials, 2021, 522, 167560.	2.3	10
3	Decoupling Lattice and Magnetic Instabilities in Frustrated CuMnO_2 . Inorganic Chemistry, 2021, 60, 6004-6015.	4.0	7
4	Pressure-Induced Insulator–Metal Transition in Two-Dimensional Mott Insulator NiPS_3 . Journal of the Physical Society of Japan, 2021, 90, .	1.6	4
5	Thermal Expansion and Response to Pressure of Double- ReO_3 -Type Fluorides NaM_VF_6 (M = Nb, Ta). Inorganic Chemistry, 2020, 59, 13979-13987.	4.0	3
6	Pressure Induced Topological Quantum Phase Transition in Weyl Semimetal Td-MoTe ₂ . Journal of the Physical Society of Japan, 2020, 89, 094707.	1.6	4
7	Neutron diffraction study of magnetic ordering in high pressure phases of rare earth metal holmium. Journal of Magnetism and Magnetic Materials, 2020, 507, 166843.	2.3	8
8	3D scanning and 3D printing AlSi10Mg single crystal mounts for neutron scattering. Review of Scientific Instruments, 2020, 91, 053902.	1.3	7
9	CaMn_2O_4 structural path: Following the negative thermal expansion at the local scale. Physical Review B, 2020, 102, .	3.2	7
10	On single-crystal neutron-diffraction in DACs: quantitative structure refinement of light elements on SNAP and TOPAZ. High Pressure Research, 2020, 40, 339-357.	1.2	5
11	Magnetic ordering in rare earth metal dysprosium revealed by neutron diffraction studies in a large-volume diamond anvil cell. High Pressure Research, 2019, 39, 588-597.	1.2	8
12	Giant Barocaloric Effect at the Spin Crossover Transition of a Molecular Crystal. Advanced Materials, 2019, 31, e1807334.	21.0	75
13	Structure determination of oxamic acid from laboratory powder X-Ray diffraction data and energy minimization by DFT-D. Journal of Molecular Structure, 2019, 1177, 310-316.	3.6	2
14	Soft antiphase tilt of oxygen octahedra in the hybrid improper multiferroic Ca_3O_7 . Physical Review B, 2018, 97, .	3.2	27
15	Next-generation diamond cell and applications to single-crystal neutron diffraction. Review of Scientific Instruments, 2018, 89, 092902.	1.3	20
16	Compression mechanisms of ferroelectric PbTiO_3 via high pressure neutron scattering. Journal of Physics Condensed Matter, 2018, 30, 435702.	1.8	1
17	Direct observation of symmetrization of hydrogen bond in $\tilde{\gamma}$ -AlOOH under mantle conditions using neutron diffraction. Scientific Reports, 2018, 8, 15520.	3.3	48
18	Adsorption and molecular siting of CO_2 , water, and other gases in the superhydrophobic, flexible pores of FMOF-1 from experiment and simulation. Chemical Science, 2017, 8, 3989-4000.	7.4	60

#	ARTICLE	IF	CITATIONS
19	Insights on the origin of the TbGe magnetocaloric effect. <i>Physica B: Condensed Matter</i> , 2017, 513, 72-76.	2.7	0
20	Deuterium Isotope Effects in Polymerization of Benzene under Pressure. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1856-1864.	4.6	12
21	Pressure effects on spin-lattice coupling of CdCr ₂ S ₄ . <i>Journal of Alloys and Compounds</i> , 2017, 715, 83-90.	5.5	1
22	Novel multiferroic state and ME enhancement by breaking the AFM frustration in LuMn _{1-x} O ₃ . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1335-1341.	2.8	10
23	Synthesis of Defect Perovskites (He _{2-x} - _y)(CaZrF ₆) by Inserting Helium into the Negative Thermal Expansion Material CaZrF ₆ . <i>Journal of the American Chemical Society</i> , 2017, 139, 13284-13287.	13.7	18
24	Pressure tuning of structure, superconductivity, and novel magnetic order in the Ce-underdoped electron-doped cuprate $T^{\text{msup}}_{\text{mo}}^{\text{msup}} \hat{c}^2$	3.2	6
25	Spin state and magnetic ordering of half-doped Nd _{0.5} Co _{0.5} cobaltite. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 422, 197-203.	2.3	9
26	Characterization of Crystallographic Structures Using Bragg-Edge Neutron Imaging at the Spallation Neutron Source. <i>Journal of Imaging</i> , 2017, 3, 65.	3.0	31
27	Radiation attenuation by single-crystal diamond windows. <i>Journal of Applied Crystallography</i> , 2017, 50, 76-86.	4.5	18
28	Chemical disorder determines the deviation of the Slater-Pauling rule for Fe ₂ MnSi-based Heusler alloys: evidences from neutron diffraction and density functional theory. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 476002.	1.8	6
29	Anomalous bulk modulus in vanadate spinels. <i>Physical Review B</i> , 2016, 94, .	3.2	9
30	Carboxylate-based molecular magnet: One path toward achieving stable quantum correlations at room temperature. <i>Europhysics Letters</i> , 2016, 113, 40004.	2.0	14
31	Pressure-induced structural phase transition in CeNi: X-ray and neutron scattering studies and first-principles calculations. <i>Physical Review B</i> , 2015, 92, .	3.2	3
32	Pressure-induced collapsed-tetragonal phase in SrCo ₂ As ₂ . <i>Physical Review B</i> , 2015, 92, .	3.2	16
33	Reply to Zayed: Interplay of magnetism and structure in the Shastry-Sutherland model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E383-E384.	7.1	1
34	Charge disproportionation and the pressure-induced insulator-metal transition in cubic perovskite PbCrO ₃ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1670-1674.	7.1	37
35	High pressure neutron powder diffraction study of Fe _{1-x} Cr _x with and without hydrogen exposure. <i>Hyperfine Interactions</i> , 2015, 231, 29-36.	0.5	0
36	Heptacopper(II) and dicopper(II)-adenine complexes: synthesis, structural characterization, and magnetic properties. <i>Journal of Coordination Chemistry</i> , 2015, 68, 2770-2787.	2.2	14

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37	Anomalous breakdown of Bloch's rule in the Mott-Hubbard insulator MnTe . Physical Review B, 2015, 91, .	3.2	1
38	Density driven structural transformations in amorphous semiconductor clathrates. Applied Physics Letters, 2015, 106, 021911.	3.3	1
39	Boundaries for martensitic transition of 7Li under pressure. Nature Communications, 2015, 6, 8030.	12.8	16
40	High-Pressure Single-Crystal Neutron Scattering Study of Magnetic and Fe Vacancy Orders in $(\text{Ti,Rb})_{2-x}\text{Fe}_x\text{Se}_5$ Superconductor. Chinese Physics Letters, 2014, 31, 127401.	3.3	6
41	Structure and elasticity of phlogopite under compression: Geophysical implications. Physics of the Earth and Planetary Interiors, 2014, 233, 1-12.	1.9	36
42	Emergence of long-range order in sheets of magnetic dimers. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14372-14377.	7.1	23
43	Synthesis, characterization and magnetic properties of a manganese (II) silicate containing frustrated $S=5/2$ zigzag ladders. Journal of Solid State Chemistry, 2014, 211, 130-135.	2.9	0
44	Neutron diffraction and electrical transport studies on magnetic ordering in terbium at high pressures and low temperatures. High Pressure Research, 2013, 33, 555-562.	1.2	11
45	Novel alkaline earth copper germanates with ferro and antiferromagnetic $S=1/2$ chains. Journal of Solid State Chemistry, 2013, 198, 39-44.	2.9	9
46	Effects of temperature and pressure on phonons in FeSiAl . Physical Review B, 2013, 87, .	3.2	1
47	Neutron diffraction observations of interstitial protons in dense ice. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10552-10556.	7.1	55
48	Giant atomic displacement at a magnetic phase transition in metastable Mn_3O_4 . Physical Review B, 2013, 87, .	3.2	16
49	Large-volume diamond cells for neutron diffraction above 90 GPa. High Pressure Research, 2013, 33, 546-554.	1.2	65
50	Local structural motifs and extended-range order in liquid and solid ammonia under pressure. Physical Review B, 2012, 85, .	3.2	12
51	Abinitio determination of crystal structures of the thermoelectric material MgAgSb . Physical Review B, 2012, 85, .	3.2	86
52	Cage occupancies in the high pressure structure H methane hydrate: A neutron diffraction study. Journal of Chemical Physics, 2012, 136, 054502.	3.0	29
53	Neutron diffraction and electrical transport studies on the incommensurate magnetic phase transition in holmium at high pressures. Journal of Physics Condensed Matter, 2012, 24, 216003.	1.8	3
54	Dynamic off-centering of Cr^{3+} ions and short-range magneto-electric clusters in CdCr_2S_7 . Physical Review B, 2012, 85, .	3.2	28

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55	Pressure-induced tuning of a magnetic phase separation in Nd _{0.53} Sr _{0.47} MnO ₃ . Physical Review B, 2012, 86, . Effect of pressure on the neutron spin resonance in the unconventional superconductor FeTe	3.2	9
56	$\frac{1}{0.6} \text{Se}$	3.2	6
57	Structure and stability of an amorphous water-methane mixture produced by cold compression of methane hydrate. Physical Review B, 2012, 86, .	3.2	18
58	Evidence for entanglement at high temperatures in an engineered molecular magnet. Europhysics Letters, 2012, 100, 50001. Tuning the magnetism of Tb	2.0	19
59	$\frac{1}{5} \text{SiGe}$	3.2	15
60	Pressure Dependent Diffraction and Spectroscopy of a Dimerized Antiferromagnet. Journal of the Physical Society of Japan, 2011, 80, SB005.	1.6	0
61	Understanding the role played by Fe on the tuning of magnetocaloric effect in Tb ₅ Si ₂ Ge ₂ . Applied Physics Letters, 2011, 98, .	3.3	18
62	High-pressure neutron diffraction study on H ₂ D isotope effects in brucite. Physics and Chemistry of Minerals, 2010, 37, 741-749.	0.8	25
63	Temperature and pressure dependence of the Fe-specific phonon density of states in Ba	3.2	18
64	Pressure-induced lattice collapse in the tetragonal phase of single-crystalline Fe	3.2	29
65	Magnetic properties of compounds. Journal of Solid State Chemistry, 2009, 182, 253-258.	2.9	30
66	Entanglement and Bell's inequality violation above room temperature in metal carboxylates. Physical Review B, 2009, 79, .	3.2	41
67	Entanglement temperature in molecular magnets composed of S-spin dimers. Europhysics Letters, 2009, 87, 40008.	2.0	26
68	Synthesis, structure and magnetic behaviour of mixed metal leucophosphate. Journal of Solid State Chemistry, 2008, 181, 1330-1336.	2.9	5
69	Spectroscopic studies of an europium(III) tris-diketonate complex bearing a pyrazolylpyridine ligand. Journal of Alloys and Compounds, 2008, 451, 344-346.	5.5	2
70	Specific heat of clustered low dimensional magnetic systems. Journal of Physics Condensed Matter, 2007, 19, 446203.	1.8	2
71	Synthesis, crystal structure and magnetic characterization of Na ₂ Cu ₅ (Si ₂ O ₇) ₂ : An inorganic ferrimagnetic chain. Journal of Solid State Chemistry, 2007, 180, 16-21.	2.9	12
72	Homometallic ferrimagnetism in the zig-zag chain compound Na ₂ Cu ₅ Si ₄ O ₁₄ . Physical Review B, 2006, 73, .	3.2	15

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73	Photoluminescence of lanthanide NASICONs: Na ₅ LnSi ₄ O ₁₂ , Ln = Eu, Tb. Journal of Materials Chemistry, 2006, 16, 3139.	6.7	13
74	Singlet ground state determined by isolated Cu ²⁺ chain topology in microporous Na ₂ Cu ₂ Si ₄ O ₁₁ ·2H ₂ O and Na ₂ Cu ₂ Si ₄ O ₁₁ . Physical Review B, 2005, 72, .	3.2	13
75	Epitaxial growth and properties of metastable BiMnO ₃ thin films. Applied Physics Letters, 2004, 84, 91-93.	3.3	90
76	Orbital ordering as the determinant for ferromagnetism in biferroic BiMnO ₃ . Physical Review B, 2002, 66, .	3.2	211
77	Evidence for the likely occurrence of magnetoferroelectricity in the simple perovskite, BiMnO ₃ . Solid State Communications, 2002, 122, 49-52.	1.9	332
78	Charge-ordering in thin films of bilayered rare earth manganates. Solid State Sciences, 2000, 2, 651-655.	0.7	1
79	Charge ordering and phase competition in the layered perovskite LaSr ₂ Mn ₂ O ₇ . Physical Review B, 2000, 61, 15269-15276.	3.2	110
80	Immobilisation of Ferricinium Cation into ETS-10 by Ion Exchange under Microwave Irradiation. Materials Science Forum, 0, 587-588, 453-457.	0.3	1