

# Antonio M Dos Santos

## List of Publications by Year in descending order

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80  
papers

1,987  
citations

304743

22  
h-index

254184

43  
g-index

81  
all docs

81  
docs citations

81  
times ranked

2952  
citing authors



#	ARTICLE	IF	CITATIONS
19	Soft antiphase tilt of oxygen octahedra in the hybrid improper multiferroic $\text{CaMn}_3\text{O}_7$ . Physical Review B, 2018, 97, .	3.2	27
20	Entanglement temperature in molecular magnets composed of S-spin dimers. Europhysics Letters, 2009, 87, 40008.	2.0	26
21	High-pressure neutron diffraction study on H $\delta$ D isotope effects in brucite. Physics and Chemistry of Minerals, 2010, 37, 741-749.	0.8	25
22	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
23	Effects of temperature and pressure on phonons in $\text{FeSi}_2$ . Physical Review B, 2013, 87, .	3.2	21
24	Next-generation diamond cell and applications to single-crystal neutron diffraction. Review of Scientific Instruments, 2018, 89, 092902.	1.3	20
25	Evidence for entanglement at high temperatures in an engineered molecular magnet. Europhysics Letters, 2012, 100, 50001.	2.0	19
26	Temperature and pressure dependence of the Fe-specific phonon density of states in $\text{BaMn}_2\text{O}_7$ . Physical Review B, 2010, 81, .	3.2	18
27	Understanding the role played by Fe on the tuning of magnetocaloric effect in $\text{Tb}_5\text{Si}_2\text{Ge}_2$ . Applied Physics Letters, 2011, 98, .	3.3	18
28	Structure and stability of an amorphous water-methane mixture produced by cold compression of methane hydrate. Physical Review B, 2012, 86, .	3.2	18
29	Synthesis of Defect Perovskites ( $\text{He}_{x-1}(\text{CaZrF}_6)_x$ ) by Inserting Helium into the Negative Thermal Expansion Material $\text{CaZrF}_6$ . Journal of the American Chemical Society, 2017, 139, 13284-13287.	13.7	18
30	Radiation attenuation by single-crystal diamond windows. Journal of Applied Crystallography, 2017, 50, 76-86.	4.5	18
31	Giant atomic displacement at a magnetic phase transition in metastable $\text{Mn}_3\text{O}_4$ . Physical Review B, 2013, 87, .	3.2	16
32	Pressure-induced collapsed-tetragonal phase in $\text{SrCo}_2\text{As}_2$ . Physical Review B, 2015, 92, .	3.2	16
33	Boundaries for martensitic transition of $^7\text{Li}$ under pressure. Nature Communications, 2015, 6, 8030.	12.8	16
34	Homometallic ferrimagnetism in the zig-zag chain compound $\text{Na}_2\text{Cu}_5\text{Si}_4\text{O}_{14}$ . Physical Review B, 2006, 73, Tailoring the magnetism of $\text{Tb}_5\text{Si}_2\text{Ge}_2$	3.2	15
35	Tailoring the magnetism of $\text{Tb}_5\text{Si}_2\text{Ge}_2$ . Physical Review B, 2013, 87, .	3.2	15
36	Heptacopper(II) and dicopper(II)-adenine complexes: synthesis, structural characterization, and magnetic properties. Journal of Coordination Chemistry, 2015, 68, 2770-2787.	2.2	14

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37	Carboxylate-based molecular magnet: One path toward achieving stable quantum correlations at room temperature. <i>Europhysics Letters</i> , 2016, 113, 40004.	2.0	14
38	Singlet ground state determined by isolated $\text{Cu}^{2+}$ chain topology in microporous $\text{Na}_2\text{Cu}_2\text{Si}_4\text{O}_{11} \cdot 2\text{H}_2\text{O}$ and $\text{Na}_2\text{Cu}_2\text{Si}_4\text{O}_{11}$ . <i>Physical Review B</i> , 2005, 72, .	3.2	13
39	Photoluminescence of lanthanide NASICONs: $\text{Na}_5\text{LnSi}_4\text{O}_{12}$ , Ln = Eu, Tb. <i>Journal of Materials Chemistry</i> , 2006, 16, 3139.	6.7	13
40	Synthesis, crystal structure and magnetic characterization of $\text{Na}_2\text{Cu}_5(\text{Si}_2\text{O}_7)_2$ : An inorganic ferrimagnetic chain. <i>Journal of Solid State Chemistry</i> , 2007, 180, 16-21.	2.9	12
41	Local structural motifs and extended-range order in liquid and solid ammonia under pressure. <i>Physical Review B</i> , 2012, 85, .	3.2	12
42	Deuterium Isotope Effects in Polymerization of Benzene under Pressure. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1856-1864.	4.6	12
43	Neutron diffraction and electrical transport studies on magnetic ordering in terbium at high pressures and low temperatures. <i>High Pressure Research</i> , 2013, 33, 555-562.	1.2	11
44	Novel multiferroic state and ME enhancement by breaking the AFM frustration in $\text{LuMn}_2\text{O}_3$ . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1335-1341.	2.8	10
45	Peculiarities of the phase transformation dynamics in bulk FeRh based alloys from magnetic and structural measurements. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 522, 167560.	2.3	10
46	Pressure-induced tuning of a magnetic phase separation in $\text{Nd}_{0.53}\text{Sr}_{0.47}\text{MnO}_3$ . <i>Physical Review B</i> , 2012, 86, .	3.2	9
47	Novel alkaline earth copper germanates with ferro and antiferromagnetic $S=1/2$ chains. <i>Journal of Solid State Chemistry</i> , 2013, 198, 39-44.	2.9	9
48	Anomalous bulk modulus in vanadate spinels. <i>Physical Review B</i> , 2016, 94, .	3.2	9
49	Spin state and magnetic ordering of half-doped $\text{Nd}_{0.5}\text{Co}_{0.5}\text{MnO}_3$ cobaltite. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 422, 197-203.	2.3	9
50	Magnetic ordering in rare earth metal dysprosium revealed by neutron diffraction studies in a large-volume diamond anvil cell. <i>High Pressure Research</i> , 2019, 39, 588-597.	1.2	8
51	Neutron diffraction study of magnetic ordering in high pressure phases of rare earth metal holmium. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 507, 166843.	2.3	8
52	Decoupling Lattice and Magnetic Instabilities in Frustrated $\text{CuMnO}_2$ . <i>Inorganic Chemistry</i> , 2021, 60, 6004-6015.	4.0	7
53	3D scanning and 3D printing $\text{AlSi}_2\text{Mg}$ single crystal mounts for neutron scattering. <i>Review of Scientific Instruments</i> , 2020, 91, 053902.	1.3	7
54	$\text{CaMn}_2\text{O}_4$ structural path: Following the negative thermal expansion at the local scale. <i>Physical Review B</i> , 2020, 102, .	3.2	7

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55	Pressure on the neutron spin resonance in the unconventional superconductor $\text{FeTe}_{1-x}\text{Se}_x$ . <i>Physical Review B</i> , 2012, 85, 020408.	3.2	6
56	High-Pressure Single-Crystal Neutron Scattering Study of Magnetic and Fe Vacancy Orders in $(\text{Ti,Rb})_{2-x}\text{Fe}_4\text{Se}_5$ Superconductor. <i>Chinese Physics Letters</i> , 2014, 31, 127401.	3.3	6
57	Chemical disorder determines the deviation of the Slater-Pauling rule for $\text{Fe}_2\text{MnSi}$ -based Heusler alloys: evidences from neutron diffraction and density functional theory. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 476002.	1.8	6
58	Pressure tuning of structure, superconductivity, and novel magnetic order in the Ce-underdoped electron-doped cuprate $\text{Ce}_{1-x}\text{Pr}_x\text{Cu}_2\text{As}_2$ . <i>Physical Review B</i> , 2017, 96, .	3.2	6
59	Synthesis, structure and magnetic behaviour of mixed metal leucophosphate. <i>Journal of Solid State Chemistry</i> , 2008, 181, 1330-1336.	2.9	5
60	On single-crystal neutron-diffraction in DACs: quantitative structure refinement of light elements on SNAP and TOPAZ. <i>High Pressure Research</i> , 2020, 40, 339-357.	1.2	5
61	Anomalous breakdown of Bloch's rule in the Mott-Hubbard insulator $\text{MnTe}_{1-x}\text{Sb}_x$ . <i>Physical Review B</i> , 2015, 91, .	3.2	5
62	Pressure Induced Topological Quantum Phase Transition in Weyl Semimetal $\text{Td-MoTe}_2$ . <i>Journal of the Physical Society of Japan</i> , 2020, 89, 094707.	1.6	4
63	Magnetic structure of antiferromagnetic high-pressure phases of dysprosium. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 545, 168749.	2.3	4
64	Pressure-Induced Insulator-Metal Transition in Two-Dimensional Mott Insulator $\text{NiPS}_3$ . <i>Journal of the Physical Society of Japan</i> , 2021, 90, .	1.6	4
65	Neutron diffraction and electrical transport studies on the incommensurate magnetic phase transition in holmium at high pressures. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 216003.	1.8	3
66	Pressure-induced structural phase transition in $\text{CeNi}$ : X-ray and neutron scattering studies and first-principles calculations. <i>Physical Review B</i> , 2015, 92, .	3.2	3
67	Thermal Expansion and Response to Pressure of Double- $\text{ReO}_3$ -Type Fluorides $\text{NaM}_V\text{F}_6$ ( $M = \text{Nb, Ta}$ ). <i>Inorganic Chemistry</i> , 2020, 59, 13979-13987.	4.0	3
68	Specific heat of clustered low dimensional magnetic systems. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 446203.	1.8	2
69	Spectroscopic studies of an europium(III) tris- $\beta^2$ -diketonate complex bearing a pyrazolylpyridine ligand. <i>Journal of Alloys and Compounds</i> , 2008, 451, 344-346.	5.5	2
70	Structure determination of oxamic acid from laboratory powder X-Ray diffraction data and energy minimization by DFT-D. <i>Journal of Molecular Structure</i> , 2019, 1177, 310-316.	3.6	2
71	Charge-ordering in thin films of bilayered rare earth manganates. <i>Solid State Sciences</i> , 2000, 2, 651-655.	0.7	1
72	Immobilisation of Ferricinium Cation into ETS-10 by Ion Exchange under Microwave Irradiation. <i>Materials Science Forum</i> , 0, 587-588, 453-457.	0.3	1

#	ARTICLE	IF	CITATIONS
73	Reply to Zayed: Interplay of magnetism and structure in the Shastryâ€Sutherland model. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E383-E384.	7.1	1
74	Density driven structural transformations in amorphous semiconductor clathrates. Applied Physics Letters, 2015, 106, 021911.	3.3	1
75	Pressure effects on spin-lattice coupling of CdCr <sub>2</sub> S <sub>4</sub> . Journal of Alloys and Compounds, 2017, 715, 83-90.	5.5	1
76	Compression mechanisms of ferroelectric PbTiO <sub>3</sub> via high pressure neutron scattering. Journal of Physics Condensed Matter, 2018, 30, 435702.	1.8	1
77	Pressure Dependent Diffraction and Spectroscopy of a Dimerized Antiferromagnet. Journal of the Physical Society of Japan, 2011, 80, SB005.	1.6	0
78	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
79	High pressure neutron powder diffraction study of Fe <sup>x</sup> Cr <sub>1-x</sub> with and without hydrogen exposure. Hyperfine Interactions, 2015, 231, 29-36.	0.5	0
80	Insights on the origin of the TbGe magnetocaloric effect. Physica B: Condensed Matter, 2017, 513, 72-76.	2.7	0