Vinicius de Sousa

List of Publications by Year in Descending Order

48 papers	404 citations	11 h-index	16 g-index
48 ext. papers	478 ext. citations	3.1 avg, IF	2.82 L-index

#	Paper	IF	Citations
48	Hidden first-order phase transitions and large magnetocaloric effects in GdNi1−xCox. *Journal of Alloys and Compounds*, **2022**, 897, 163186	5.7	1
47	Magnetothermal properties of Ho1-xDyxAl2 (x = 0, 0.05, 0.10, 0.15, 0.25 and 0.50) compounds. *Journal of Magnetism and Magnetic Materials*, **2022**, 544, 168705	2.8	2
46	Refrigeration through Barocaloric Effect Using the Spin Crossover Complex {Fe[H2B(pz)2]2(bipy)}. *Physica Status Solidi (B): Basic Research*, **2021**, 258, 2100108	1.3	2
45	Magnetothermal properties of TmxDy1−xAl2 (x= 0.25, 0.50 and 0.75). *Journal of Alloys and Compounds*, **2021**, 858, 157682	5.7	2
44	Correlation between anomalous thermal expansion coefficient and barocaloric effect: Application to spin crossover systems. *Solid State Communications*, **2021**, 336, 114427	1.6	
43	Magnetism and magnetocaloric effect in amorphous ferrimagnetic systems: Application to the Gd55FexAl45−x series. *Journal of Non-Crystalline Solids*, **2021**, 573, 121133	3.9	1
42	Anisotropic exchange in GdGa. *Journal of Alloys and Compounds*, **2020**, 827, 154119	5.7	
41	Large barocaloric effect in spin-crossover complex [CrI2(depe)2]. *Journal of Applied Physics*, **2020**, 127, 165104	2.5	2
40	Influence of magnetic field on a spin-crossover material. *Journal of Magnetism and Magnetic Materials*, **2019**, 489, 165340	2.8	7
39	The refrigerant capacity in spin-crossover materials: Application to [Fe(phen)2(NCS)2]. *Journal of Magnetism and Magnetic Materials*, **2019**, 489, 165421	2.8	4
38	Magnetic and magnetocaloric properties in Gd1−yPryNi2 compounds. *Journal of Magnetism and Magnetic Materials*, **2018**, 449, 308-312	2.8	4
37	Colossal refrigerant capacity in [Fe(hyptrz)3]A2·H2O around the freezing temperature of water. *Physical Review B*, **2018**, 98,	3.3	12
36	The influence of crystalline electrical field on magnetic and magnetocaloric properties in Er1−yTbyAl2 compounds. *Journal of Magnetism and Magnetic Materials*, **2017**, 442, 265-269	2.8	2
35	The influence of dipolar and quadrupolar interactions on the magnetoresistivity and magnetocaloric effect in TmZn investigated through a microscopic model. *Journal of Magnetism and Magnetic Materials*, **2017**, 441, 271-275	2.8	
34	Magnetic and magnetocaloric properties of amorphous Y3Fe5O12 compound. *Journal of Magnetism and Magnetic Materials*, **2017**, 422, 157-160	2.8	2
33	Spin reorientations and crystal field modification in Ho1−y GdyAl2 compounds. *Journal of Alloys and Compounds*, **2016**, 686, 522-525	5.7	2
32	Theoretical investigation on the magnetic and electric properties in TbSb compound through an anisotropic microscopic model. *Journal of Applied Physics*, **2016**, 119, 183903	2.5	4

31	Theoretical investigations on magnetocaloric effect in Er1−xTbx Al2 series. *Journal of Magnetism and Magnetic Materials*, **2015**, 379, 112-116	2.8	11
30	Electric field triggering the spin reorientation and controlling the absorption and release of heat in the induced multiferroic compound EuTiO3. *Journal of Applied Physics*, **2015**, 118, 243901	2.5	8
29	Theoretical investigations on magnetic entropy change in amorphous and crystalline systems: Applications to RAg (R=Tb, Dy, Ho) and GdCuAl. *Journal of Magnetism and Magnetic Materials*, **2014**, 369, 34-39	2.8	4
28	Calculations of the magnetic entropy change in amorphous through a microscopic anisotropic model: Applications to Dy70Zr30 and DyCo3.4 alloys. *Journal of Applied Physics*, **2014**, 116, 143903	2.5	5
27	Theoretical investigation on the barocaloric and magnetocaloric properties in the Gd5Si2Ge2 compound. *Journal of Applied Physics*, **2014**, 116, 243908	2.5	4
26	Investigation on the magnetocaloric effect in TbN compound. *Journal of Magnetism and Magnetic Materials*, **2013**, 341, 138-141	2.8	1
25	Theoretical investigations on the magnetocaloric and barocaloric effects in TbyGd(1−y)Al2 series. *Journal of Alloys and Compounds*, **2013**, 563, 242-248	5.7	12
24	Theoretical investigation on the magnetocaloric effect in amorphous systems, application to: Gd80Au20 and Gd70Ni30. *Journal of Applied Physics*, **2013**, 113, 243903	2.5	15
23	Exchange-bias-like effect in Pr0.75Tb0.25Al2 and Pr0.7Tb0.3Al2 samples. *Journal of Magnetism and Magnetic Materials*, **2013**, 339, 6-10	2.8	5
22	Theoretical investigation on the magnetocaloric effect in MnAs using a microscopic model to describe the magnetic and thermal hysteresis. *Solid State Communications*, **2012**, 152, 951-954	1.6	11
21	The influence of magnetic and electric coupling properties on the magnetocaloric effect in quantum paraelectric EuTiO3. *Journal of Magnetism and Magnetic Materials*, **2012**, 324, 1290-1295	2.8	10
20	Heat flow measurements and the order of the magnetic transition in (Dy,Gd)Co2 solid solutions. *Journal of Alloys and Compounds*, **2012**, 513, 615-619	5.7	7
19	Spin reorientation and the magnetocaloric effect in HoyEr(1−y)N. *Journal of Applied Physics*, **2012**, 111, 113916	2.5	8
18	Investigation on the magnetocaloric effect in (Gd,Pr)Al2 solid solutions. *Journal of Magnetism and Magnetic Materials*, **2011**, 323, 794-798	2.8	15
17	Theoretical investigation on the existence of inverse and direct magnetocaloric effect in perovskite EuZrO3. *Journal of Applied Physics*, **2011**, 109, 083942	2.5	9
16	The influence of spontaneous and field-induced spin reorientation transitions on the magnetocaloric properties of HoZn and ErZn. *Journal of Applied Physics*, **2011**, 109, 063904	2.5	9
15	The influence of spontaneous and field induced spin reorientation transitions on the magnetocaloric properties in rare earth intermetallic compounds: Application to TbZn. *Journal of Applied Physics*, **2010**, 107, 103928	2.5	8
14	The influence of the magnetoelastic interaction on the magnetocaloric effect in ferrimagnetic systems: a theoretical investigation. *Journal of Physics Condensed Matter*, **2010**, 22, 486008	1.8	5

13	The anisotropic magnetocaloric effect described by Maxwell formulation: Application to DyAl2 and TbNi2. *Journal of Alloys and Compounds*, **2010**, 503, 277-280	5.7	13
12	A comparative study of the magnetocaloric effect in RNi2 (R=Dy, Ho, Er) intermetallic compounds. *Journal of Alloys and Compounds*, **2010**, 505, 357-361	5.7	20
11	Magnetocaloric effect in ferromagnetic and ferrimagnetic systems under first and second order phase transition. *Journal of Magnetism and Magnetic Materials*, **2010**, 322, 84-87	2.8	16
10	A comparative study of the magnetocaloric effect in RNi2 (R=Nd,Gd,Tb) intermetallic compounds. *Journal of Applied Physics*, **2009**, 105, 013903	2.5	16
9	Understanding the inverse magnetocaloric effect in antiferro- and ferrimagnetic arrangements. *Journal of Physics Condensed Matter*, **2009**, 21, 056004	1.8	53
8	Theoretical investigation on the magnetocaloric effect in garnets R3Fe5O12 where (R=Y and Dy). *Journal of Applied Physics*, **2009**, 106, 053914	2.5	6
7	Magnetic coupling between Gd and Pr ions and magnetocaloric effect in Gd0.5Pr0.5Al2 compound. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 3014-3018	2.8	7
6	Investigation on the magnetocaloric effect in DyNi2, DyAl2 and Tb1GdnAl2 (n=0, 0.4, 0.6) compounds. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 3462-3465	2.8	9
5	The giant anisotropic magnetocaloric effect in DyAl2. *Journal of Applied Physics*, **2008**, 104, 093906	2.5	29
4	Theoretical investigation on the anisotropic magnetocaloric effect: Application to DyAl2. *Journal of Magnetism and Magnetic Materials*, **2008**, 320, e143-e146	2.8	4
3	The influence of the spin reorientation process on the magnetocaloric effect: Application to PrAl2. *Journal of Magnetism and Magnetic Materials*, **2007**, 313, 176-181	2.8	7
2	Magnetocaloric effect due to spin reorientation in the crystalline electrical field: Theory applied to DyAl2. *Physical Review B*, **2007**, 75,	3.3	26
1	The influence of quadrupolar interaction on the magnetocaloric effect in PrMg2. *Journal of Alloys and Compounds*, **2007**, 440, 46-50	5.7	4