

# Vinicius de Sousa

## List of Publications by Citations

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48  
papers

404  
citations

11  
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16  
g-index

48  
ext. papers

478  
ext. citations

3.1  
avg, IF

2.82  
L-index

#	Paper	IF	Citations
48	Understanding the inverse magnetocaloric effect in antiferro- and ferrimagnetic arrangements. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 056004	1.8	53
47	The giant anisotropic magnetocaloric effect in DyAl <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 093906	2.5	29
46	Magnetocaloric effect due to spin reorientation in the crystalline electrical field: Theory applied to DyAl <sub>2</sub> . <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	26
45	A comparative study of the magnetocaloric effect in RNi <sub>2</sub> (R=Dy, Ho, Er) intermetallic compounds. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 505, 357-361	5.7	20
44	A comparative study of the magnetocaloric effect in RNi <sub>2</sub> (R=Nd,Gd,Tb) intermetallic compounds. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 013903	2.5	16
43	Magnetocaloric effect in ferromagnetic and ferrimagnetic systems under first and second order phase transition. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2010</b> , 322, 84-87	2.8	16
42	Theoretical investigation on the magnetocaloric effect in amorphous systems, application to: Gd <sub>80</sub> Au <sub>20</sub> and Gd <sub>70</sub> Ni <sub>30</sub> . <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 243903	2.5	15
41	Investigation on the magnetocaloric effect in (Gd,Pr)Al <sub>2</sub> solid solutions. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2011</b> , 323, 794-798	2.8	15
40	The anisotropic magnetocaloric effect described by Maxwell formulation: Application to DyAl <sub>2</sub> and TbNi <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 503, 277-280	5.7	13
39	Theoretical investigations on the magnetocaloric and barocaloric effects in TbyGd(1-x)Al <sub>2</sub> series. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 563, 242-248	5.7	12
38	Colossal refrigerant capacity in [Fe(hyptrz) <sub>3</sub> ]A <sub>2</sub> ·H <sub>2</sub> O around the freezing temperature of water. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	12
37	Theoretical investigations on magnetocaloric effect in Er <sub>1-x</sub> Tb <sub>x</sub> Al <sub>2</sub> series. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 379, 112-116	2.8	11
36	Theoretical investigation on the magnetocaloric effect in MnAs using a microscopic model to describe the magnetic and thermal hysteresis. <i>Solid State Communications</i> , <b>2012</b> , 152, 951-954	1.6	11
35	The influence of magnetic and electric coupling properties on the magnetocaloric effect in quantum paraelectric EuTiO <sub>3</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 1290-1295	2.8	10
34	Investigation on the magnetocaloric effect in DyNi <sub>2</sub> , DyAl <sub>2</sub> and Tb <sub>1-x</sub> Gd <sub>x</sub> Al <sub>2</sub> (x=0, 0.4, 0.6) compounds. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2009</b> , 321, 3462-3465	2.8	9
33	Theoretical investigation on the existence of inverse and direct magnetocaloric effect in perovskite EuZrO <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 083942	2.5	9
32	The influence of spontaneous and field-induced spin reorientation transitions on the magnetocaloric properties of HoZn and ErZn. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 063904	2.5	9

31	Electric field triggering the spin reorientation and controlling the absorption and release of heat in the induced multiferroic compound EuTiO <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 243901	2.5	8
30	Spin reorientation and the magnetocaloric effect in Ho <sub>2</sub> Er(1-x)N. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 113916	2.5	8
29	The influence of spontaneous and field induced spin reorientation transitions on the magnetocaloric properties in rare earth intermetallic compounds: Application to TbZn. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 103928	2.5	8
28	Influence of magnetic field on a spin-crossover material. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 489, 165340	2.8	7
27	Heat flow measurements and the order of the magnetic transition in (Dy,Gd)Co <sub>2</sub> solid solutions. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 513, 615-619	5.7	7
26	Magnetic coupling between Gd and Pr ions and magnetocaloric effect in Gd <sub>0.5</sub> Pr <sub>0.5</sub> Al <sub>2</sub> compound. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2009</b> , 321, 3014-3018	2.8	7
25	The influence of the spin reorientation process on the magnetocaloric effect: Application to PrAl <sub>2</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 313, 176-181	2.8	7
24	Theoretical investigation on the magnetocaloric effect in garnets R <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> where (R=Y and Dy). <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 053914	2.5	6
23	Calculations of the magnetic entropy change in amorphous through a microscopic anisotropic model: Applications to Dy <sub>70</sub> Zr <sub>30</sub> and DyCo <sub>3.4</sub> alloys. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 143903	2.5	5
22	Exchange-bias-like effect in Pr <sub>0.75</sub> Tb <sub>0.25</sub> Al <sub>2</sub> and Pr <sub>0.7</sub> Tb <sub>0.3</sub> Al <sub>2</sub> samples. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2013</b> , 339, 6-10	2.8	5
21	The influence of the magnetoelastic interaction on the magnetocaloric effect in ferrimagnetic systems: a theoretical investigation. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 486008	1.8	5
20	The refrigerant capacity in spin-crossover materials: Application to [Fe(phen) <sub>2</sub> (NCS) <sub>2</sub> ]. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 489, 165421	2.8	4
19	Magnetic and magnetocaloric properties in Gd <sub>1-x</sub> Pr <sub>x</sub> Ni <sub>2</sub> compounds. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 449, 308-312	2.8	4
18	Theoretical investigations on magnetic entropy change in amorphous and crystalline systems: Applications to RAg (R=Tb, Dy, Ho) and GdCuAl. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 369, 34-39	2.8	4
17	Theoretical investigation on the barocaloric and magnetocaloric properties in the Gd <sub>5</sub> Si <sub>2</sub> Ge <sub>2</sub> compound. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 243908	2.5	4
16	Theoretical investigation on the anisotropic magnetocaloric effect: Application to DyAl <sub>2</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2008</b> , 320, e143-e146	2.8	4
15	The influence of quadrupolar interaction on the magnetocaloric effect in PrMg <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 440, 46-50	5.7	4
14	Theoretical investigation on the magnetic and electric properties in TbSb compound through an anisotropic microscopic model. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 183903	2.5	4

13	Large barocaloric effect in spin-crossover complex [CrI <sub>2</sub> (depe) <sub>2</sub> ]. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 165104	2.5	2
12	Spin reorientations and crystal field modification in Ho <sub>1-x</sub> Gd <sub>x</sub> Al <sub>2</sub> compounds. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 686, 522-525	5.7	2
11	The influence of crystalline electrical field on magnetic and magnetocaloric properties in Er <sub>1-x</sub> Tb <sub>x</sub> Al <sub>2</sub> compounds. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 442, 265-269	2.8	2
10	Magnetic and magnetocaloric properties of amorphous Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> compound. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 422, 157-160	2.8	2
9	Magneto-thermal properties of Ho <sub>1-x</sub> Dy <sub>x</sub> Al <sub>2</sub> (x = 0, 0.05, 0.10, 0.15, 0.25 and 0.50) compounds. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2022</b> , 544, 168705	2.8	2
8	Refrigeration through Barocaloric Effect Using the Spin Crossover Complex {Fe[H <sub>2</sub> B(pz) <sub>2</sub> ] <sub>2</sub> (bipy)}. <i>Physica Status Solidi (B): Basic Research</i> , <b>2021</b> , 258, 2100108	1.3	2
7	Magneto-thermal properties of Tm <sub>x</sub> Dy <sub>1-x</sub> Al <sub>2</sub> (x= 0.25, 0.50 and 0.75). <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 858, 157682	5.7	2
6	Investigation on the magnetocaloric effect in TbN compound. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2013</b> , 341, 138-141	2.8	1
5	Hidden first-order phase transitions and large magnetocaloric effects in GdNi <sub>1-x</sub> Cox. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 897, 163186	5.7	1
4	Magnetism and magnetocaloric effect in amorphous ferrimagnetic systems: Application to the Gd <sub>55</sub> Fe <sub>x</sub> Al <sub>45-x</sub> series. <i>Journal of Non-Crystalline Solids</i> , <b>2021</b> , 573, 121133	3.9	1
3	Anisotropic exchange in GdGa. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 827, 154119	5.7	
2	The influence of dipolar and quadrupolar interactions on the magnetoresistivity and magnetocaloric effect in TmZn investigated through a microscopic model. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 441, 271-275	2.8	
1	Correlation between anomalous thermal expansion coefficient and barocaloric effect: Application to spin crossover systems. <i>Solid State Communications</i> , <b>2021</b> , 336, 114427	1.6	