Vinicius de Sousa

List of Publications by Year
in descending order

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48	551	687335 13	752679 20
papers	citations	h-index	g-index

48	48	48	496
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Understanding the inverse magnetocaloric effect in antiferro- and ferrimagnetic arrangements. Journal of Physics Condensed Matter, 2009, 21, 056004.	1.8	67
2	The giant anisotropic magnetocaloric effect in DyAl2. Journal of Applied Physics, 2008, 104, .	2.5	31
3	A comparative study of the magnetocaloric effect in RNi2 (R = Dy, Ho, Er) intermetallic compounds. Journal of Alloys and Compounds, 2010, 505, 357-361.	5.5	28
4	Magnetocaloric effect due to spin reorientation in the crystalline electrical field: Theory applied toDyAl2. Physical Review B, 2007, 75, .	3.2	27
5	Colossal refrigerant capacity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mo>[</mml:mo><mml:mrow><mml:mi>Fe</mml:mi mathvariant="normal">A</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo>Â·</mml:mo><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant=". Physical Review B, 2018, 98, .	3.2	24
6	A comparative study of the magnetocaloric effect in RNi2â€ˆ(R=Nd,Gd,Tb) intermetallic compounds. Journal of Applied Physics, 2009, 105, .	2.5	20
7	Magnetocaloric effect in ferromagnetic and ferrimagnetic systems under first and second order phase transition. Journal of Magnetism and Magnetic Materials, 2010, 322, 84-87.	2.3	19
8	Investigation on the magnetocaloric effect in (Gd,Pr)Al2 solid solutions. Journal of Magnetism and Magnetic Materials, 2011, 323, 794-798.	2.3	18
9	The anisotropic magnetocaloric effect described by Maxwell formulation: Application to DyAl2 and TbNi2. Journal of Alloys and Compounds, 2010, 503, 277-280.	5.5	15
10	Theoretical investigation on the magnetocaloric effect in amorphous systems, application to: Gd80Au20 and Gd70Ni30. Journal of Applied Physics, 2013, 113, .	2.5	15
11	Theoretical investigations on magnetocaloric effect in Er1â€™Tb Al2 series. Journal of Magnetism and Magnetic Materials, 2015, 379, 112-116.	2.3	15
12	Theoretical investigations on the magnetocaloric and barocaloric effects in TbyGd(1â€™y)Al2 series. Journal of Alloys and Compounds, 2013, 563, 242-248.	5.5	14
13	Theoretical investigation on the existence of inverse and direct magnetocaloric effect in perovskite EuZrO3. Journal of Applied Physics, 2011, 109, .	2.5	13
14	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.	1.9	13
15	Influence of magnetic field on a spin-crossover material. Journal of Magnetism and Magnetic Materials, 2019, 489, 165340.	2.3	13
16	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.	2.3	11
17	Investigation on the magnetocaloric effect in DyNi2, DyAl2 and Tb1â€™Gd Al2 (n=0, 0.4, 0.6) compounds. Journal of Magnetism and Magnetic Materials, 2009, 321, 3462-3465.	2.3	11
18	The influence of spontaneous and field-induced spin reorientation transitions on the magnetocaloric properties of HoZn and ErZn. Journal of Applied Physics, 2011, 109, .	2.5	11

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19	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.	2.3	11
20	Large barocaloric effect in spin-crossover complex [CrI2(depe)2]. Journal of Applied Physics, 2020, 127, .	2.5	11
21	Refrigeration through Barocaloric Effect Using the Spin Crossover Complex {Fe[H₂B(pz)₂]₂(bipy)}. Physica Status Solidi (B): Basic Research, 2021, 258, 2100108.	1.5	11
22	Hidden first-order phase transitions and large magnetocaloric effects in GdNi1â^'xCox. Journal of Alloys and Compounds, 2022, 897, 163186.	5.5	11
23	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, .	2.5	10
24	Spin reorientation and the magnetocaloric effect in HoyEr(1â^'y)N. Journal of Applied Physics, 2012, 111, .	2.5	10
25	Magnetic and magnetocaloric properties in Gd1â^'yPryNi2 compounds. Journal of Magnetism and Magnetic Materials, 2018, 449, 308-312.	2.3	10
26	The refrigerant capacity in spin-crossover materials: Application to [Fe(phen)2(NCS)2]. Journal of Magnetism and Magnetic Materials, 2019, 489, 165421.	2.3	10
27	Theoretical investigation on the magnetocaloric effect in garnets R3Fe5O12 where (R=Y and Dy). Journal of Applied Physics, 2009, 106, 053914.	2.5	9
28	Magnetothermal properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si24.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="bold">H</mml:mi><mml:mi mathvariant="bold">o</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mo>-</mml:mo><mml:mi mathvariant="bold-italic">x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="bold">D</mml:mi><mml:mi mathvariant="bold">y</mml:mi></mml:mrow><mml:mrow><m	2.3	9
29	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.	5.5	8
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, .	2.5	8
31	The influence of the spin reorientation process on the magnetocaloric effect: Application to PrAl2. Journal of Magnetism and Magnetic Materials, 2007, 313, 176-181.	2.3	7
32	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	7
33	Exchange-bias-like effect in Pr0.75Tb0.25Al2 and Pr0.7Tb0.3Al2 samples. Journal of Magnetism and Magnetic Materials, 2013, 339, 6-10.	2.3	7
34	Theoretical investigation on the barocaloric and magnetocaloric properties in the Gd5Si2Ge2 compound. Journal of Applied Physics, 2014, 116, .	2.5	6
35	Theoretical investigation on the magnetic and electric properties in TbSb compound through an anisotropic microscopic model. Journal of Applied Physics, 2016, 119, .	2.5	6
36	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.	2.3	5

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37	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
38	The influence of quadrupolar interaction on the magnetocaloric effect in PrMg2. Journal of Alloys and Compounds, 2007, 440, 46-50.	5.5	4
39	Theoretical investigation on the anisotropic magnetocaloric effect: Application to DyAl2. Journal of Magnetism and Magnetic Materials, 2008, 320, e143-e146.	2.3	4
40	Spin reorientations and crystal field modification in Ho 1âˆ’y Gd y Al 2 compounds. Journal of Alloys and Compounds, 2016, 686, 522-525.	5.5	4
41	The influence of crystalline electrical field on magnetic and magnetocaloric properties in Er1âˆ’yTbyAl2 compounds. Journal of Magnetism and Magnetic Materials, 2017, 442, 265-269.	2.3	4
42	Magnetothermal properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:mrow><mml:mi mathvariant="bold">T</mml:mi><mml:msub><mml:mi mathvariant="bold">m</mml:mi><mml:mi mathvariant="bold-italic">x</mml:mi></mml:msub><mml:mi mathvariant="bold">D</mml:mi><mml:msub><mml:mi mathvariant="bold">y</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>âˆ’</mml:mo><mml:mi mathvariant="bold-italic">x</mml:mi></mml:mrow></mml:msub><mml:mi mathvariant="bold">A</mml:mi>	5.5	4
43	Magnetic and magnetocaloric properties of amorphous Y3Fe5O12 compound. Journal of Magnetism and Magnetic Materials, 2017, 422, 157-160.	2.3	2
44	Magnetism and magnetocaloric effect in amorphous ferrimagnetic systems: Application to the Gd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si22.svg"><mml:msub><mml:mrow /><mml:mn>55</mml:mn></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si23.svg"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>Al<mml:math xmlns:mml="http://www.w3.org/1998/Mat	3.1	2
45	Investigation on the magnetocaloric effect in TbN compound. Journal of Magnetism and Magnetic Materials, 2013, 341, 138-141.	2.3	1
46	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.	2.3	0
47	Anisotropic exchange in GdGa. Journal of Alloys and Compounds, 2020, 827, 154119.	5.5	0
48	Correlation between anomalous thermal expansion coefficient and barocaloric effect: Application to spin crossover systems. Solid State Communications, 2021, 336, 114427.	1.9	0