Bruno Alho

List of Publications by Year in descending order

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42 papers	488 citations	777949 13 h-index	843174 20 g-index
42 all docs	42 docs citations	42 times ranked	434 citing authors

#	Article	IF	Citations
1	Isothermal 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>â^’</mml:mo><mml:mi mathvariant="bold-italic">x</mml:mi></mml:mrow></mml:msub></mml:mrow>	2.8	4
2	Refrigeration through Barocaloric Effect Using the Spin Crossover Complex {Fe[H₂B(pz)₂]₂(bipy)}. Physica Status Solidi (B): Basic Research, 2021, 258, 2100108.	0.7	11
3	Correlation between anomalous thermal expansion coefficient and barocaloric effect: Application to spin crossover systems. Solid State Communications, 2021, 336, 114427.	0.9	0
4	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	1.5	2
5	Low-Temperature Crystal Structure and Mean-Field Modeling of ErxDy1â^’xAl2 Intermetallics. Metals, 2020, 10, 1662.	1.0	3
6	Free-energy analysis of the nonhysteretic first-order phase transition of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Eu</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2020, 102, .	1.1	10
7	Anisotropic exchange in GdGa. Journal of Alloys and Compounds, 2020, 827, 154119.	2.8	0
8	Large barocaloric effect in spin-crossover complex [CrI2(depe)2]. Journal of Applied Physics, 2020, 127, .	1.1	11
9	Influence of magnetic field on a spin-crossover material. Journal of Magnetism and Magnetic Materials, 2019, 489, 165340.	1.0	13
10	The refrigerant capacity in spin-crossover materials: Application to [Fe(phen)2(NCS)2]. Journal of Magnetism and Magnetic Materials, 2019, 489, 165421.	1.0	10
11	First indirect experimental evidence and theoretical discussion of giant refrigeration capacity through the reversible pressure induced spin-crossover phase transition. Journal of Alloys and Compounds, 2018, 749, 556-560.	2.8	20
12	Magnetic and magnetocaloric properties in Gd1â^’yPryNi2 compounds. Journal of Magnetism and Magnetic Materials, 2018, 449, 308-312.	1.0	10
13	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><mml:mn 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	1.1	24
14	Magnetocaloric effect study on amorphous<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mi>R</mml:mi><mml:mi>E</mml:mi><mml:mi>N</mml:mi><mml:msub><mml:mi>i</mml:mi><m xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif"		

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19	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, .	1.1	8
20	Theoretical investigations on magnetocaloric effect in Er1â^'Tb Al2 series. Journal of Magnetism and Magnetic Materials, 2015, 379, 112-116.	1.0	15
21	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.	1.0	5
22	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.	1.1	5
23	Anisotropic magnetocaloric effect in antiferromagnetic systems: Application to EuTiO3. Journal of Applied Physics, 2014, 116, .	1.1	18
24	Theoretical investigation on the barocaloric and magnetocaloric properties in the Gd5Si2Ge2 compound. Journal of Applied Physics, 2014, 116, .	1.1	6
25	Magnetocaloric effect in Gd(1â^'y)DyyAl2. International Journal of Refrigeration, 2014, 37, 297-302.	1.8	12
26	Theoretical investigations on the magnetocaloric and barocaloric effects in TbyGd(1â^'y)Al2 series. Journal of Alloys and Compounds, 2013, 563, 242-248.	2.8	14
27	Theoretical investigation on the magnetocaloric effect in amorphous systems, application to: Gd80Au20 and Gd70Ni30. Journal of Applied Physics, 2013, 113, .	1.1	15
28	Spin reorientation and the magnetocaloric effect in HoyEr(1â^'y)N. Journal of Applied Physics, 2012, 111, .	1.1	10
29	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.	0.9	13
30	A discussion on the magnetization calculation in polycrystalline antiferromagnetic system: Application to EuTiO3. Journal of Magnetism and Magnetic Materials, 2012, 324, 210-214.	1.0	11
31	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.	1.0	11
32	Theoretical investigation on the magnetocaloric effect in the intermetallic. Journal of Alloys and Compounds, 2011, 509, 8979-8982.	2.8	5
33	Investigation on the magnetocaloric effect in (Gd,Pr)Al2 solid solutions. Journal of Magnetism and Magnetic Materials, 2011, 323, 794-798.	1.0	18
34	Theoretical investigation on the existence of inverse and direct magnetocaloric effect in perovskite EuZrO3. Journal of Applied Physics, 2011, 109, .	1.1	13
35	Magnetocaloric effect in ferromagnetic and ferrimagnetic systems under first and second order phase transition. Journal of Magnetism and Magnetic Materials, 2010, 322, 84-87.	1.0	19
36	The influence of the magnetoelastic interaction on the magnetocaloric effect in ferrimagnetic systems: a theoretical investigation. Journal of Physics Condensed Matter, 2010, 22, 486008.	0.7	7

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37	The anisotropic magnetocaloric effect described by Maxwell formulation: Application to DyAl2 and TbNi2. Journal of Alloys and Compounds, 2010, 503, 277-280.	2.8	15
38	Understanding the inverse magnetocaloric effect in antiferro- and ferrimagnetic arrangements. Journal of Physics Condensed Matter, 2009, 21, 056004.	0.7	67
39	Theoretical investigation on the magnetocaloric effect in garnets R3Fe5O12 where (R=Y and Dy). Journal of Applied Physics, 2009, 106, 053914.	1.1	9
40	Understanding the inverse magnetocaloric effect through a simple theoretical model. Physica B: Condensed Matter, 2009, 404, 3045-3047.	1.3	19
41	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.	1.0	11
42	The giant anisotropic magnetocaloric effect in DyAl2. Journal of Applied Physics, 2008, 104, .	1.1	31