Bruno Alho

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8802664/publications.pdf

Version: 2024-02-01

42	488	687220 13	752573 20
papers	citations	h-index	g-index

42	42	42	407
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.	0.7	67
2	The giant anisotropic magnetocaloric effect in DyAl2. Journal of Applied Physics, 2008, 104, .	1.1	31
3	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: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, .	1.1	24
4	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
5	Understanding the inverse magnetocaloric effect through a simple theoretical model. Physica B: Condensed Matter, 2009, 404, 3045-3047.	1.3	19
6	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
7	Investigation on the magnetocaloric effect in (Gd,Pr)Al2 solid solutions. Journal of Magnetism and Magnetic Materials, 2011, 323, 794-798.	1.0	18
8	Anisotropic magnetocaloric effect in antiferromagnetic systems: Application to EuTiO3. Journal of Applied Physics, 2014, 116, .	1.1	18
9	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
10	Theoretical investigation on the magnetocaloric effect in amorphous systems, application to: Gd80Au20 and Gd70Ni30. Journal of Applied Physics, 2013, 113, .	1.1	15
11	Theoretical investigations on magnetocaloric effect in Er1â^'Tb Al2 series. Journal of Magnetism and Magnetic Materials, 2015, 379, 112-116.	1.0	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.	2.8	14
13	Theoretical investigation on the existence of inverse and direct magnetocaloric effect in perovskite EuZrO3. Journal of Applied Physics, 2011, 109, .	1.1	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.	0.9	13
15	Influence of magnetic field on a spin-crossover material. Journal of Magnetism and Magnetic Materials, 2019, 489, 165340.	1.0	13
16	Magnetocaloric effect in Gd(1â^'y)DyyAl2. International Journal of Refrigeration, 2014, 37, 297-302.	1.8	12
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.	1.0	11
18	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

#	Article	IF	Citations
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.	1.0	11
20	Large barocaloric effect in spin-crossover complex [CrI2(depe)2]. Journal of Applied Physics, 2020, 127, .	1.1	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.	0.7	11
22	Spin reorientation and the magnetocaloric effect in HoyEr(1âˆ'y)N. Journal of Applied Physics, 2012, 111, .	1.1	10
23	Magnetic and magnetocaloric properties in Gd1âˆ'yPryNi2 compounds. Journal of Magnetism and Magnetic Materials, 2018, 449, 308-312.	1.0	10
24	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
25	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
26	Theoretical investigation on the magnetocaloric effect in garnets R3Fe5O12 where (R=Y and Dy). Journal of Applied Physics, 2009, 106, 053914.	1.1	9
27	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
28	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
29	Theoretical investigation on the barocaloric and magnetocaloric properties in the Gd5Si2Ge2 compound. Journal of Applied Physics, 2014, 116, .	1.1	6
30	Theoretical investigation on the magnetic and electric properties in TbSb compound through an anisotropic microscopic model. Journal of Applied Physics, 2016, 119, .	1.1	6
31	Theoretical investigation on the magnetocaloric effect in the intermetallic. Journal of Alloys and Compounds, 2011, 509, 8979-8982.	2.8	5
32	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
33	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
34	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.	1.0	4
35	Magnetocaloric 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></mml:math>	2.8	4
36	Low-Temperature Crystal Structure and Mean-Field Modeling of ErxDy1âˆ'xAl2 Intermetallics. Metals, 2020, 10, 1662.	1.0	3

#	Article	IF	Citations
37	Magnetic and magnetocaloric properties of amorphous Y3Fe5O12 compound. Journal of Magnetism and Magnetic Materials, 2017, 422, 157-160.	1.0	2
38	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/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>	1.5	2
39	xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif"		