

Nilson de Oliveira

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6603066/publications.pdf>

Version: 2024-02-01

137
papers

3,057
citations

218677

26
h-index

182427

51
g-index

138
all docs

138
docs citations

138
times ranked

1622
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional integral approach for temperature dependence of the magnetic hyperfine field at a Cd site in RCd (R = Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho and Er). Journal of Magnetism and Magnetic Materials, 2022, 560, 169594.	2.3	0
2	On the magnetocaloric effect in single crystals. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 385, 126957.	2.1	3
3	Experimental and theoretical analysis of magnetocaloric behavior of $\text{Dy}_{1-x}\text{Pr}_x\text{Ni}_2\text{B}_4$ compounds. Journal of Magnetism and Magnetic Materials, 2021, 518, 167502.	2.1	1

#	ARTICLE	IF	CITATIONS
19	Rotating magnetocaloric effect in HoAl ₂ single crystal. Intermetallics, 2015, 64, 59-62.	3.9	13
20	Magnetic hyperfine field at a Cd impurity diluted in RCo ₂ at finite temperatures. Journal of Magnetism and Magnetic Materials, 2015, 384, 284-288.	2.3	4
21	Theoretical investigations on magnetocaloric effect in Er ^{1-x} Tb ^x Al ₂ series. Journal of Magnetism and Magnetic Materials, 2015, 379, 112-116.	2.3	15
22	Magnetocaloric effect in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si11.gif" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo stretchy="false"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Tb} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{C} \langle \text{mml:mi} \rangle$	2.3	4
23	Journal of Alloys and Compounds, 2015, 618, 386-389. 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
24	Calculations of the magnetic entropy change in amorphous through a microscopic anisotropic model: Applications to Dy ₇₀ Zr ₃₀ and DyCo _{3.4} alloys. Journal of Applied Physics, 2014, 116, 143903.	2.5	5
25	Anisotropic magnetocaloric effect in <i>TmAl</i> ₂ single crystal. Journal of Applied Physics, 2014, 116, .	2.5	4
26	Theoretical investigation on the barocaloric and magnetocaloric properties in the Gd ₅ Si ₂ Ge ₂ compound. Journal of Applied Physics, 2014, 116, .	2.5	6
27	Magnetocaloric and barocaloric effects: Theoretical description and trends. International Journal of Refrigeration, 2014, 37, 237-248.	3.4	37
28	Investigation on the magnetocaloric effect in TbN compound. Journal of Magnetism and Magnetic Materials, 2013, 341, 138-141.	2.3	1
29	Giant magnetocaloric and barocaloric effects in R ₅ Si ₂ Ge ₂ (R= Tb, Gd). Journal of Applied Physics, 2013, 113, 033910.	2.5	12
30	Theoretical investigations on the magnetocaloric and barocaloric effects in Tb _y Gd(1-x)Al ₂ series. Journal of Alloys and Compounds, 2013, 563, 242-248.	5.5	14
31	On the magnetocaloric effect of itinerant electron systems with first order transition. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 1355-1360.	2.6	4
32	Theoretical investigation on the magnetocaloric effect in amorphous systems, application to: Gd ₈₀ Au ₂₀ and Gd ₇₀ Ni ₃₀ . Journal of Applied Physics, 2013, 113, .	2.5	15
33	Local magnetic moment formation and magnetic hyperfine fields at Cd impurity in RAl ₂ (R = rare earth) Tj ETQq1 1 0,784314 1rgBT /Over	1.3	1
34	Theoretical study of the hyperfine field at Cu impurities diluted in an iron host. Physical Review C, 2012, 86, .	2.9	2
35	Spin reorientation and the magnetocaloric effect in Ho _y Er(1-x)N. Journal of Applied Physics, 2012, 111, .	2.5	10
36	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

#	ARTICLE	IF	CITATIONS
37	The influence of magnetic and electric coupling properties on the magnetocaloric effect in quantum paraelectric EuTiO ₃ . Journal of Magnetism and Magnetic Materials, 2012, 324, 1290-1295.	2.3	11
38	Barocaloric effect and the pressure induced solid state refrigerator. Journal of Applied Physics, 2011, 109, 053515.	2.5	25
39	Magnetocaloric properties of compounds with first order phase transition: Hysteresis effect. Journal of Alloys and Compounds, 2011, 509, 6346-6349.	5.5	21
40	Theoretical investigation on the magnetocaloric effect in the intermetallic. Journal of Alloys and Compounds, 2011, 509, 8979-8982.	5.5	5
41	Anomalous barocaloric effect in solid magnetic materials. Journal of Physics Condensed Matter, 2011, 23, 306003.	1.8	7
42	Investigation on the magnetocaloric effect in (Gd,Pr)Al ₂ solid solutions. Journal of Magnetism and Magnetic Materials, 2011, 323, 794-798.	2.3	18
43	Magnetic hyperfine field at sâ€p impurities on Laves phase compounds. Journal of Magnetism and Magnetic Materials, 2011, 323, 881-884.	2.3	2
44	Theoretical investigation on the existence of inverse and direct magnetocaloric effect in perovskite EuZrO ₃ . Journal of Applied Physics, 2011, 109, .	2.5	13
45	Theoretical aspects of the magnetocaloric effect. Physics Reports, 2010, 489, 89-159.	25.6	530
46	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
47	Local magnetic moment formation at 119Sn MÃssbauer impurity in () Laves phases compounds. Journal of Magnetism and Magnetic Materials, 2010, 322, 1102-1104.	2.3	0
48	Magnetocaloric and barocaloric effects in $Mn_{1-x}As_x$ compounds. Journal of Applied Physics, 2010, 107, 1558-1560.	2.3	10
49	Magnetic moment formation at a dilute C140e impurity in RCo ₂ compounds. Journal of Applied Physics, 2010, 107, .	2.5	3
50	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
51	Giant magnetocaloric and barocaloric effects in Mn(As _{1-x} Sb _x). Journal of Alloys and Compounds, 2010, 501, 177-182.	5.5	35
52	Understanding the inverse magnetocaloric effect in antiferro- and ferrimagnetic arrangements. Journal of Physics Condensed Matter, 2009, 21, 056004.	1.8	67
53	Theoretical investigation on the magnetocaloric effect in garnets R ₃ Fe ₅ O ₁₂ where (R=Y and Dy). Journal of Applied Physics, 2009, 106, 053914.	2.5	9
54	Understanding the inverse magnetocaloric effect through a simple theoretical model. Physica B: Condensed Matter, 2009, 404, 3045-3047.	2.7	19

#	ARTICLE	IF	CITATIONS
55	Investigation on the magnetocaloric effect in DyNi ₂ , DyAl ₂ and Tb _{1-x} Gd _x Al ₂ (x=0, 0.4, 0.6) compounds. Journal of Magnetism and Magnetic Materials, 2009, 321, 3462-3465. Magnetocaloric effect in http://www.w3.org/1998/Math/MathML	2.3	11
56	Investigation on the magnetocaloric effect in $Tm_{1-x}Gd_xAl_2$ (x=0, 0.4, 0.6) compounds. Journal of Magnetism and Magnetic Materials, 2009, 321, 3462-3465.	2.3	2
57	Investigation of the first-order metamagnetic transitions and the colossal magnetocaloric effect using a Landau expansion applied to MnAs compound. European Physical Journal B, 2009, 68, 67-72.	1.5	23
58	Functional integral calculation of local magnetic moments at Ta impurities embedded in compounds: Temperature dependence. Physica B: Condensed Matter, 2008, 403, 1408-1410.	2.7	2
59	Magnetocaloric effect in the Laves phase pseudobinaries (and Ho). Journal of Magnetism and Magnetic Materials, 2008, 320, 386-392.	2.3	13
60	Theoretical investigation on the anisotropic magnetocaloric effect: Application to DyAl ₂ . Journal of Magnetism and Magnetic Materials, 2008, 320, e143-e146.	2.3	4
61	Monte Carlo calculations of the magnetocaloric effect in gadolinium. Journal of Magnetism and Magnetic Materials, 2008, 320, e147-e149.	2.3	8
62	Magnetocaloric effect in. Journal of Magnetism and Magnetic Materials, 2008, 320, e150-e152.	2.3	8
63	Magnetocaloric effect in under applied pressure. Journal of Magnetism and Magnetic Materials, 2008, 320, e153-e155.	2.3	5
64	Local magnetic moments and hyperfine fields of transition element impurities in ferromagnetic Gd and Tb rare earth metals. Journal of Magnetism and Magnetic Materials, 2008, 320, e446-e449.	2.3	4
65	Magnetocaloric effect in the pseudobinaries (Ho _{1-x} R _x)Co ₂ (R = Er and Dy). European Physical Journal B, 2008, 65, 207-212.	1.5	16
66	Magnetocaloric effect around a magnetic phase transition. Physical Review B, 2008, 77, .	3.2	90
67	Magnetocaloric effect in rare earth doped compounds. Journal of Alloys and Compounds, 2008, 455, 81-86.	5.5	15
68	Local magnetic moment formation at Sn ¹¹⁹ Mössbauer impurity in RCo ₂ (R=Gd,Tb,Dy,Ho,Er) Laves phase compounds. Journal of Applied Physics, 2008, 103, 07C909.	2.5	0
69	Magnetocaloric effect under applied pressure and the barocaloric effect in the compounds RCo ₂ (R =) $Tm_{1-x}Gd_xAl_2$	1.8	11
70	The giant anisotropic magnetocaloric effect in DyAl ₂ . Journal of Applied Physics, 2008, 104, .	2.5	31
71	Barocaloric and magnetocaloric effects in La(Fe _{0.89} Si _{0.11}) ₁₃ . Journal of Applied Physics, 2008, 103, .	2.5	31
72	Local magnetic moments and hyperfine fields at Ta impurities diluted in XFe ₂ (X = Y, Gd, Yb) Laves phases compounds. Journal of the Brazilian Chemical Society, 2008, 19, .	0.6	0

#	ARTICLE	IF	CITATIONS
73	Ambient pressure colossal magnetocaloric effect in $Mn_{1-x}Cu_xAs$ compounds. Applied Physics Letters, 2007, 90, 242507.	3.3	48
74	Magnetocaloric effect due to spin reorientation in the crystalline electrical field: Theory applied to $DyAl_2$. Physical Review B, 2007, 75, .	3.2	27
75	The influence of quadrupolar interaction on the magnetocaloric effect in $PrMg_2$. Journal of Alloys and Compounds, 2007, 440, 46-50.	5.5	4
76	Entropy change upon magnetic field and pressure variations. Applied Physics Letters, 2007, 90, 052501.	3.3	53
77	Magnetocaloric effect in the rare earth doped compounds. Solid State Communications, 2007, 144, 103-108.	1.9	12
78	Monte Carlo calculations of the magnetocaloric effect in. Journal of Magnetism and Magnetic Materials, 2007, 310, 2805-2807.	2.3	11
79	The influence of the spin reorientation process on the magnetocaloric effect: Application to $PrAl_2$. Journal of Magnetism and Magnetic Materials, 2007, 313, 176-181.	2.3	7
80	The magnetocaloric effect in R_5Si_4 (R = Gd, Tb): a Monte Carlo calculation. Journal of Physics Condensed Matter, 2006, 18, 1275-1283.	1.8	18
81	Monte Carlo calculations of the magnetocaloric effect in RAl_2 (R=Dy,Er). Journal of Applied Physics, 2006, 99, 08Q103.	2.5	16
82	Theoretical description of the colossal entropic magnetocaloric effect: Application to $MnAs$. Physical Review B, 2006, 73, .	3.2	62
83	Magnetocaloric effect in doped with hydrogen and under external pressure. Journal of Alloys and Compounds, 2006, 424, 41-45.	5.5	16
84	Ambient pressure colossal magnetocaloric effect tuned by composition in $Mn_{1-x}Fe_xAs$. Nature Materials, 2006, 5, 802-804.	27.5	197
85	Magnetocaloric effect in rare-earth-based compounds: A Monte Carlo study. Physica B: Condensed Matter, 2006, 378-380, 716-717.	2.7	11
86	On the magnetocaloric effect in $Gd(Zn_{1-x}Cd_x)$. Solid State Communications, 2006, 137, 431-435.	1.9	4
87	Theoretical calculations of the magnetocaloric effect in. Journal of Magnetism and Magnetic Materials, 2006, 306, 265-271.	2.3	10
88	Magnetocaloric effect in. Journal of Magnetism and Magnetic Materials, 2006, 301, 503-512.	2.3	9
89	Influence of spin reorientation on magnetocaloric effect in $NdAl_2$: A microscopic model. Physical Review B, 2006, 74, .	3.2	15
90	Magnetocaloric effect in $(Gd_xTb_{1-x})_5Si_4$ by Monte Carlo simulations. Physical Review B, 2006, 74, .	3.2	25

#	ARTICLE	IF	CITATIONS
91	Analytical model to understand the colossal magnetocaloric effect. Physical Review B, 2005, 71, .	3.2	65
92	Monte Carlo calculations of the magnetocaloric effect in $Gd_5(SixGe_{1-x})_4$ compounds. Physical Review B, 2005, 72, .	3.2	42
93	Theoretical calculations of the magnetocaloric effect in $MnFeP_{0.45}As_{0.55}$: a model of itinerant electrons. Journal of Physics Condensed Matter, 2005, 17, 3325-3332.	1.8	29
94	Magnetocaloric effect in systems of itinerant electrons: application to Fe, Co, Ni, YFe_2 and YFe_3 compounds. Journal of Alloys and Compounds, 2005, 403, 45-48.	5.5	9
95	Magnetocaloric effect in the RNi_5 ($R=Pr, Nd, Gd, Tb, Dy, Ho, Er$) series. Physical Review B, 2004, 70, .	3.2	84
96	Magnetocaloric effect in rare-earth pseudobinary $Er(Co_{1-x}Ni_x)_2$. Physical Review B, 2004, 69, .	3.2	28
97	ON THE TEMPERATURE INDEPENDENT RESISTIVITY OF IMPURITIES DILUTED IN NOBLE HOSTS. Modern Physics Letters B, 2004, 18, 149-156.	1.9	2
98	Magnetocaloric effect in transition metals based compounds: a theoretical approach. European Physical Journal B, 2004, 40, 259-264.	1.5	27
99	Pressure-Induced Colossal Magnetocaloric Effect in $MnAs$. Physical Review Letters, 2004, 93, 237202.	7.8	290
100	Magnetic moment formation at a dilute Ta impurity in RCo_2 intermetallic compounds. Journal of Magnetism and Magnetic Materials, 2004, 270, 208-215.	2.3	3
101	Understanding the influence of the first-order magnetic phase transition on the magnetocaloric effect: application to $Gd_5(SixGe_{1-x})_4$. Journal of Magnetism and Magnetic Materials, 2004, 277, 78-83.	2.3	63
102	Magnetocaloric effect in the pseudobinary $Ho(Co_{1-x}Rh_x)_2$. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 583-584.	2.3	8
103	On the magnetic hyperfine fields at nd impurities in Gd and Tb hosts. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 639-640.	2.3	1
104	Local magnetic moment on a Ta impurity diluted in YFe_2 and $GdFe_2$: a functional integral approach. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E631-E632.	2.3	5
105	Theoretical investigations on giant magnetocaloric effect in $MnAs_{1-x}Sbx$. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 320, 302-306.	2.1	49
106	Residual resistivity of d impurities diluted in noble hosts. Physica B: Condensed Matter, 2004, 354, 345-347.	2.7	2
107	Calculation of the giant magnetocaloric effect in the $MnFeP_{0.45}As_{0.55}$ compound. Physical Review B, 2004, 70, .	3.2	49
108	Magnetocaloric effect in the Laves phase pseudobinary $(Er_{1-x}Dy_x)Co_2$. Journal of Magnetism and Magnetic Materials, 2003, 264, 55-61.	2.3	31

#	ARTICLE	IF	CITATIONS
109	Magnetic field effect on doped Kondo insulators. Journal of Physics and Chemistry of Solids, 2003, 64, 1173-1177.	4.0	3
110	Investigations on magnetic refrigeration: Application to RNi ₂ (R=Nd, Gd, Tb, Dy, Ho, and Er). Journal of Applied Physics, 2003, 93, 4055-4059.	2.5	71
111	Magnetic moment formation at dilute Cd impurities in RNi ₂ and RCo ₂ intermetallic compounds. Physical Review B, 2003, 67, .	3.2	8
112	Magnetocaloric effect in the Laves phase pseudobinary Er _{1-x} Y _x Co ₂ . Journal of Applied Physics, 2002, 91, 8879.	2.5	10
113	Hyperfine fields at 3d impurities in ZrFe ₂ intermetallic compound: A theoretical study. Journal of Applied Physics, 2002, 91, 8876.	2.5	4
114	The hyperfine field at rare-earth impurities diluted in Fe, Co and Ni hosts: a theoretical study. Journal of Physics Condensed Matter, 2002, 14, 1949-1955.	1.8	2
115	Magnetocaloric effect in the intermetallic compounds RCo ₂ (R=Dy, Ho, Er). Physical Review B, 2002, 66, .	3.2	75
116	A simple model for anisotropic Kondo insulators. Physica B: Condensed Matter, 2001, 304, 404-409.	2.7	1
117	Title is missing!. Hyperfine Interactions, 2001, 133, 221-233.	0.5	3
118	The influence of crystalline electric field on the magnetocaloric effect in the series RAl ₂ (R=Pr, Nd, Tb, Dy, Ho, Er, and Tm). Journal of Magnetism and Magnetic Materials, 2001, 226-230, 970-972.	2.3	39
119	Local magnetic- and hyperfine-field properties of s, p, noble and transition-metal impurities in Co host. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 391-393.	2.3	2
120	The influence of the quadrupolar interaction in the magnetocaloric effect. Solid State Communications, 2000, 114, 487-491.	1.9	11
121	On the magnetization of the Ho(Co _{1-x} R _x) ₂ pseudobinary. Journal of Physics Condensed Matter, 2000, 12, 8249-8255.	1.8	0
122	Theoretical study of hyperfine fields at diluted s, p, noble, and nd impurities in ferromagnetic compounds GdX (X=Zn, Cd). Journal of Applied Physics, 2000, 87, 4882-4884.	2.5	6
123	Impurity effect on the metal-insulator transition in Kondo insulators. Physical Review B, 2000, 61, 15726-15730.	3.2	0
124	Change of universality class of metal-insulator transition due to magnetic ordering. Journal of Applied Physics, 1999, 85, 5332-5334.	2.5	3
125	Magnetic-field-driven metal-insulator transition in Kondo insulators. Physical Review B, 1999, 60, 1444-1447.	3.2	5
126	Metal-insulator transition in Kondo insulators: A functional-integral approach. Physical Review B, 1998, 57, 6943-6948.	3.2	14

#	ARTICLE	IF	CITATIONS
127	Systematics of magnetic hyperfine fields at diluted impurities in ferromagnetic rare-earth compounds GdX (X = Zn and Cd): A theoretical study. Journal of Magnetism and Magnetic Materials, 1998, 177-181, 1091-1092.	2.3	5
128	Study of magnetic hyperfine data on rare-earth impurities in Fe and Ni: Non-orbital contribution. Journal of Magnetism and Magnetic Materials, 1998, 177-181, 1441-1442.	2.3	4
129	Temperature-driven metal-non-metal transition in Kondo insulators. Journal of Magnetism and Magnetic Materials, 1998, 177-181, 331-332.	2.3	0
130	Finite temperature magnetic properties of the PrCo ₂ intermetallic compound. Physica B: Condensed Matter, 1998, 253, 158-162.	2.7	3
131	Theoretical study of hyperfine fields at impurity nuclei in GdX (X=Zn,Cd) compounds: A two-center model. Journal of Applied Physics, 1998, 83, 6971-6973.	2.5	2
132	On the nature of the magnetic phase transition of the HoCo ₂ intermetallic. Journal of Applied Physics, 1998, 83, 6967-6968.	2.5	4
133	Local magnetization and hyperfine field systematics of s ² and noble impurities in Gd and Ni hosts. Journal of Applied Physics, 1997, 81, 4215-4217.	2.5	13
134	Transition-metal impurities in Fe: Magnetic- and hyperfine-field properties. Physical Review B, 1995, 52, 9137-9139.	3.2	25
135	Spin fluctuations in (U _{1-x} M _x)(Al _{1-y} Co _y) ₂ compounds. Physical Review B, 1993, 47, 11883-11886.	3.2	2
136	Functional integral approach to the magnetic properties of Laves phase intermetallics. Journal of Magnetism and Magnetic Materials, 1992, 114, 269-282.	2.3	9
137	Functional integral approach to the rare-earth-transition-metal Laves phase intermetallic compounds. Journal of Magnetism and Magnetic Materials, 1992, 117, 175-182.	2.3	12