

Lluís Mañosa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2960996/publications.pdf>

Version: 2024-02-01

210
papers

15,746
citations

22548

61
h-index

20023

121
g-index

218
all docs

218
docs citations

218
times ranked

5498
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastocaloric effect with a broad temperature window and low energy loss in a nanograin Ti-44Ni-5Cu-1Al shape memory alloy. <i>Physical Review Materials</i> , 2021, 5, .	0.9	8
2	Giant and Reversible Barocaloric Effect in Trinuclear Spin-Crossover Complex $\text{Fe}_3(\text{bntz})_6(\text{tcnset})_6$. <i>Advanced Materials</i> , 2021, 33, e2008076.	11.1	58
3	Reversible colossal barocaloric effects near room temperature in 1-X-adamantane (X=Cl, Br) plastic crystals. <i>Applied Materials Today</i> , 2021, 23, 101023.	2.3	33
4	Influence of microstructure on the application of Ni-Mn-In Heusler compounds for multicaloric cooling using magnetic field and uniaxial stress. <i>Acta Materialia</i> , 2021, 217, 117157.	3.8	18
5	Reversible and irreversible colossal barocaloric effects in plastic crystals. <i>Journal of Materials Chemistry A</i> , 2020, 8, 639-647.	5.2	85
6	Multicaloric effects in metamagnetic Heusler Ni-Mn-In under uniaxial stress and magnetic field. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	29
7	Reversible barocaloric effects over a large temperature span in fullerite C_{60} . <i>Journal of Materials Chemistry A</i> , 2020, 8, 20354-20362.	5.2	32
8	Tracking the dynamics of power sources and sinks during the martensitic transformation of a CuAlNi single crystal. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	9
9	Solid-state cooling by stress: A perspective. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	43
10	Outstanding caloric performances for energy-efficient multicaloric cooling in a Ni-Mn-based multifunctional alloy. <i>Acta Materialia</i> , 2019, 177, 46-55.	3.8	44
11	Colossal Elastocaloric Effect in Ferroelastic Ni-Mn-Ti Alloys. <i>Physical Review Letters</i> , 2019, 122, 255703.	2.9	245
12	Colossal barocaloric effects near room temperature in plastic crystals of neopentylglycol. <i>Nature Communications</i> , 2019, 10, 1803.	5.8	144
13	Giant barocaloric effect in all-metal Heusler shape memory alloys. <i>Physical Review Materials</i> , 2019, 3, .	0.9	55
14	Special Issue on Caloric materials. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 070201.	1.3	4
15	Multicaloric materials and effects. <i>MRS Bulletin</i> , 2018, 43, 295-299.	1.7	76
16	The Giant Elastocaloric Effect in a CuZnAl Shape-Memory Alloy: a Calorimetric Study. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700422.	0.7	24
17	A multicaloric cooling cycle that exploits thermal hysteresis. <i>Nature Materials</i> , 2018, 17, 929-934.	13.3	158
18	Caloric response of $\text{Fe}_3\text{Mn}_2\text{Si}$ subjected to uniaxial load and magnetic field. <i>Physical Review Materials</i> , 2018, 2, .	0.9	10

#	ARTICLE	IF	CITATIONS
19	Large and reversible elastocaloric effect near room temperature in a Ga-doped Ni-Mn-In metamagnetic shape-memory alloy. <i>Functional Materials Letters</i> , 2017, 10, 1740007.	0.7	8
20	Reversibility of minor hysteresis loops in magnetocaloric Heusler alloys. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	42
21	Giant multicaloric response of bulk $\text{Fe}_{1-x}\text{Mn}_x$ alloys. <i>Physical Review B</i> , 2017, 95, .	1.5	50
22	Materials with Giant Mechanocaloric Effects: Cooling by Strength. <i>Advanced Materials</i> , 2017, 29, 1603607.	11.1	304
23	Giant barocaloric effects over a wide temperature range in superionic conductor AgI. <i>Nature Communications</i> , 2017, 8, 1851.	5.8	95
24	Elastocaloric effect in Ti-Ni shape-memory wires associated with the B2 \rightarrow B19' and B2 \rightarrow R structural transitions. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	53
25	Understanding the Thermodynamic Properties of the Elastocaloric Effect Through Experimentation and Modelling. <i>Shape Memory and Superelasticity</i> , 2016, 2, 317-329.	1.1	70
26	Inverse barocaloric effects in ferroelectric BaTiO ₃ ceramics. <i>APL Materials</i> , 2016, 4, .	2.2	64
27	Mechanocaloric effects in shape memory alloys. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150310.	1.6	31
28	Expanding the magnetocaloric operation range in Ni-Mn-In Heusler alloys by Cu-doping. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 125006.	1.3	13
29	Reversible adiabatic temperature changes at the magnetocaloric and barocaloric effects in Fe ₄₉ Rh ₅₁ . <i>Applied Physics Letters</i> , 2015, 107, .	1.5	80
30	The Elastocaloric Effect: A Way to Cool Efficiently. <i>Advanced Energy Materials</i> , 2015, 5, 1500361.	10.2	234
31	Caloric and Multicaloric Effects in Shape Memory Alloys. <i>Materials Today: Proceedings</i> , 2015, 2, S477-S484.	0.9	22
32	Giant barocaloric effects at low pressure in ferroelectric ammonium sulphate. <i>Nature Communications</i> , 2015, 6, 8801.	5.8	160
33	Tailoring barocaloric and magnetocaloric properties in low-hysteresis magnetic shape memory alloys. <i>Acta Materialia</i> , 2015, 96, 324-332.	3.8	89
34	Effect of low temperature annealing on magneto-caloric effect of Ni-Mn-Sn-Al ferromagnetic shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2015, 641, 244-248.	2.8	8
35	Large entropy change associated with the elastocaloric effect in polycrystalline Ni-Mn-Sb-Co magnetic shape memory alloys. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	82
36	Localizing sources of acoustic emission during the martensitic transformation. <i>Physical Review B</i> , 2014, 89, .	1.1	34

#	ARTICLE	IF	CITATIONS
37	Barocaloric effect in metamagnetic shape memory alloys. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2114-2119.	0.7	31
38	Magnetocaloric effect in the low hysteresis Ni-Mn-In metamagnetic shape-memory Heusler alloy. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	86
39	Nanoscale oxides shape up. <i>Nature Materials</i> , 2014, 13, 6-8.	13.3	9
40	Barocaloric and magnetocaloric effects in $\text{Fe}_{49}\text{Ni}_{51}$. <i>Physical Review B</i> , 2014, 89, .	1.1	40
41	Advanced materials for solid-state refrigeration. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4925.	5.2	320
42	Acoustic emission in martensitic transformations. <i>Journal of Alloys and Compounds</i> , 2013, 577, S699-S704.	2.8	55
43	Simultaneous detection of acoustic emission and Barkhausen noise during the martensitic transition of a Ni-Mn-Ga magnetic shape-memory alloy. <i>Physical Review B</i> , 2013, 88, .	1.1	24
44	Giant Electrocaloric Strength in Single-Crystal BaTiO_3 . <i>Advanced Materials</i> , 2013, 25, 1360-1365.	11.1	430
45	Elastocaloric and magnetocaloric effects in Ni-Mn-Sn(Cu) shape-memory alloy. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	109
46	Large reversible entropy change at the inverse magnetocaloric effect in Ni-Co-Mn-Ga-In magnetic shape memory alloys. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	71
47	Large temperature span and giant refrigerant capacity in elastocaloric Cu-Zn-Al shape memory alloys. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	185
48	Hysteresis effects in the inverse magnetocaloric effect in martensitic Ni-Mn-In and Ni-Mn-Sn. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	85
49	Tuning avalanche criticality: Acoustic emission during the martensitic transformation of a compressed Ni-Mn-Ga single crystal. <i>Physical Review B</i> , 2012, 86, .	1.1	34
50	Magnetic Interactions Governing the Inverse Magnetocaloric Effect in Martensitic Ni-Mn-Based Shape-memory Alloys. <i>Springer Series in Materials Science</i> , 2012, , 67-77.	0.4	1
51	Barocaloric effect in the magnetocaloric prototype $\text{Gd}_5\text{Si}_2\text{Ge}_2$. <i>Applied Physics Letters</i> , 2012, 101, 071906.	1.5	127
52	Caloric effects induced by magnetic and mechanical fields in a Ni-Mn alloy. $\frac{50}{\text{Mn}}$	1.1	70
53	Inverse barocaloric effect in the giant magnetocaloric LaFeSiCo compound. <i>Nature Communications</i> , 2011, 2, 595.	5.8	175
54	Temperature contour maps at the strain-induced martensitic transition of a Cu-Zn-Al shape-memory single crystal. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	55

#	ARTICLE	IF	CITATIONS
55	Imaging the dynamics of martensitic transitions using acoustic emission. <i>Physical Review B</i> , 2011, 84, .	1.1	20
56	Magnetic-Field-Induced Effects in Martensitic Heusler-Based Magnetic Shape Memory Alloys. <i>Handbook of Magnetic Materials</i> , 2011, 19, 231-289.	0.6	128
57	Stress- and magnetic field-induced entropy changes in Fe-doped Ni-Mn-Ga shape-memory alloys. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	43
58	Hysteresis effects in the magnetic-field-induced reverse martensitic transition in magnetic shape-memory alloys. <i>Journal of Applied Physics</i> , 2010, 108, 043914.	1.1	34
59	Giant solid-state barocaloric effect in the Ni-Mn-In magnetic shape-memory alloy. <i>Nature Materials</i> , 2010, 9, 478-481.	13.3	632
60	Fe and Co selective substitution in Ni ₂ MnGa: Effect of magnetism on relative phase stability. <i>Philosophical Magazine</i> , 2010, 90, 2771-2792.	0.7	86
61	Lattice dynamics in magnetic superelastic Ni-Mn-In alloys: Neutron scattering and ultrasonic experiments. <i>Physical Review B</i> , 2009, 79, .	1.1	42
62	Driving-induced crossover in the avalanche criticality of martensitic transitions. <i>Physical Review B</i> , 2009, 80, .	1.1	25
63	Premartensitic transition in $\langle \text{Ni} \rangle_{2\langle \text{Mn} \rangle 2\langle \text{In} \rangle}$ alloys: Acoustic emission study. <i>Physical Review B</i> , 2009, 80, .		
64	An acoustic emission study of the effect of a magnetic field on the martensitic transition in Ni ₂ MnGa. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	21
65	Structural properties and magnetic interactions in martensitic Ni-Mn-Sb alloys. <i>Philosophical Magazine</i> , 2009, 89, 2093-2109.	0.7	53
66	THE USE OF SHAPE-MEMORY ALLOYS FOR MECHANICAL REFRIGERATION. <i>Functional Materials Letters</i> , 2009, 02, 73-78.	0.7	59
67	Comment on "The Magnetocaloric Effect of LaFe _{11.6} Si _{1.4} , La _{0.8} Nd _{0.2} Fe _{11.5} Si _{1.5} , and Ni ₄₃ Mn ₄₆ Sn ₁₁ Compounds in the Vicinity of the First-Order Phase Transition". <i>Advanced Materials</i> , 2009, 21, 3725-3726.	11.1	18
68	Magnetocaloric effect and its relation to shape-memory properties in ferromagnetic Heusler alloys. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 233201.	0.7	831
69	Magnetic correlations in martensitic Ni-Mn-based Heusler shape-memory alloys: Neutron polarization analysis. <i>Physical Review B</i> , 2009, 79, .	1.1	233
70	Magnetocaloric effect in ferromagnetic Heusler shape-memory alloys. <i>Journal of Physics: Conference Series</i> , 2009, 165, 012050.	0.3	3
71	In-situ observations of a martensitic transformation in a Cu-Zn-Al single crystal driven by stress or strain. <i>Journal of Materials Science</i> , 2008, 43, 3832-3836.	1.7	5
72	Lattice dynamics of Ni-Mn-Al Heusler alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 481-482, 227-230.	2.6	2

#	ARTICLE	IF	CITATIONS
73	The physics of the boson peak in Cu-based shape-memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 481-482, 194-196.	2.6	1
74	Ni-Mn-based magnetic shape memory alloys: Magnetic properties and martensitic transition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 481-482, 49-56.	2.6	44
75	Learning through cycling in martensitic phase transitions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 481-482, 223-226.	2.6	1
76	Phase diagram of Fe-doped Ni-Mn-Ga ferromagnetic shape-memory alloys. <i>Physical Review B</i> , 2008, 77, .	1.1	59
77	Effects of hydrostatic pressure on the magnetism and martensitic transition of Ni-Mn-In magnetic superelastic alloys. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	126
78	The influence of gallium on the magnetocaloric properties of Gd ₅ Si ₂ Ge ₂ . <i>Journal of Alloys and Compounds</i> , 2008, 460, 94-98.	2.8	20
79	Acoustic emission in the fcc-fct martensitic transition of $\text{Fe}_{1-x}\text{Ni}_x$. <i>Physical Review B</i> , 2008, 78, .	1.1	32.8
80	Elastocaloric Effect Associated with the Martensitic Transition in Shape-Memory Alloys. <i>Physical Review Letters</i> , 2008, 100, 125901.	2.9	421
81	Effect of External Fields on the Martensitic Transformation in Ni-Mn Based Heusler Alloys. <i>Advanced Materials Research</i> , 2008, 52, 189-197.	0.3	4
82	Magnetocaloric and Shape-Memory Properties in Magnetic Heusler Alloys. <i>Advanced Materials Research</i> , 2008, 52, 221-228.	0.3	12
83	Acoustic emission and energy dissipation during front propagation in a stress-driven martensitic transition. <i>Physical Review B</i> , 2008, 78, .	1.1	37
84	Combined Experimental and Theoretical Investigation of the Premartensitic Transition in Ni_2MnGa . <i>Physical Review Letters</i> , 2008, 100, 165703.	2.9	112
85	Tailoring magnetic and magnetocaloric properties of martensitic transitions in ferromagnetic Heusler alloys. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	110
86	Hysteresis in a system driven by either generalized force or displacement variables: Martensitic phase transition in single-crystalline CuZnAl . <i>Physical Review B</i> , 2007, 76, .	1.1	28
87	Magnetization easy axis in martensitic Heusler alloys estimated by strain measurements under magnetic field. <i>Applied Physics Letters</i> , 2007, 91, 251915.	1.5	49
88	Effect of Co and Fe on the inverse magnetocaloric properties of Ni-Mn-Sn. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	174
89	Magnetic superelasticity and inverse magnetocaloric effect in Ni-Mn-In. <i>Physical Review B</i> , 2007, 75, .	1.1	462
90	Contribution of low-frequency modes to the specific heat of Cu-Zn-Al shape-memory alloys. <i>Physical Review B</i> , 2007, 75, .	1.1	13

#	ARTICLE	IF	CITATIONS
91	Cooling and heating by adiabatic magnetization in the Ni ₅₀ Mn ₃₄ In ₁₆ magnetic shape-memory alloy. <i>Physical Review B</i> , 2007, 75, .	1.1	156
92	Magnetocaloric effect in Heusler shape-memory alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 2767-2769.	1.0	68
93	Electronic aspects of the martensitic transition in Ni-Mn based Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 2788-2789.	1.0	123
94	Calorimetric study of the inverse magnetocaloric effect in ferromagnetic Ni-Mn-Sn. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e572-e574.	1.0	58
95	Lattice dynamics and phonon softening in Ni-Mn-Al Heusler alloys. <i>Physical Review B</i> , 2006, 73, .	1.1	30
96	Ferromagnetism in the austenitic and martensitic states of Ni-Mn-In alloys. <i>Physical Review B</i> , 2006, 73, .	1.1	570
97	Martensitic transition and magnetic properties in Ni-Mn-X alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 438-440, 911-915.	2.6	104
98	Ferromagnetic Shape-Memory Alloys. <i>Materials Science Forum</i> , 2006, 512, 145-152.	0.3	20
99	Temperature and magnetic-field dependence of the elastic constants of Ni-Mn-Al magnetic Heusler alloys. <i>Physical Review B</i> , 2006, 74, .	1.1	22
100	Acoustic emission across the magnetostructural transition of the giant magnetocaloric Gd ₅ Si ₂ Ge ₂ . <i>Physical Review B</i> , 2006, 73, .	1.1	20
101	Mechanisms of the magnetostructural transition in Gd ₅ (SixGe _{1-x}) ₄ giant magnetocaloric alloys. , 2006, , .		0
102	Comment on "Reappraisal of experimental values of third-order elastic constants of some cubic semiconductors and metals". <i>Physical Review B</i> , 2006, 74, .	1.1	2
103	Elastic constants of bcc austenite and 2H orthorhombic martensite in CuAlNi shape memory alloy. <i>Acta Materialia</i> , 2005, 53, 3643-3661.	3.8	108
104	Inverse magnetocaloric effect in ferromagnetic Ni-Mn-Sn alloys. <i>Nature Materials</i> , 2005, 4, 450-454.	13.3	1,757
105	Elastic Properties of Structural Phases in Shape Memory Alloys Investigated by Resonant Ultrasound Spectroscopy. <i>Materials Science Forum</i> , 2005, 482, 351-354.	0.3	1
106	Direct observation of the magnetic-field-induced entropy change in Gd ₅ (SixGe _{1-x}) ₄ giant magnetocaloric alloys. <i>Applied Physics Letters</i> , 2005, 86, 262504.	1.5	53
107	Martensitic transitions and the nature of ferromagnetism in the austenitic and martensitic states of Ni-Mn-Sn alloys. <i>Physical Review B</i> , 2005, 72, .	1.1	653
108	Elastic constants of Ni-Mn-Ga magnetic shape memory alloys. <i>Physical Review B</i> , 2004, 70, .	1.1	59

#	ARTICLE	IF	CITATIONS
109	Effect of a magnetic field on the magnetostructural phase transition in $Gd_5(Si_xGe_{1-x})_4$. Physical Review B, 2004, 69, .	1.1	44
110	Magnetocaloric and shape-memory effects in Ni-Mn-Ga ferro-magnetic alloys. European Physical Journal Special Topics, 2004, 115, 105-110.	0.2	5
111	Kinetics of martensitic transitions in shape-memory alloys. Scripta Materialia, 2004, 50, 181-186.	2.6	43
112	Dynamics of the first-order magnetostructural transition in $Gd_5(Si_xGe_{1-x})_4$. European Physical Journal B, 2004, 40, 427-431.	0.6	23
113	Magnetic shape memory in $Ni-Mn-Ga$ and $Ni-Mn-Al$. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2090-2092.	1.0	17
114	Criticality in $Cu-Al-Mn$ hysteresis loops. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E515-E516.	1.0	3
115	Magnetic field induced entropy change and magnetoelasticity in $Ni-Mn-Ga$ alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1595-E1596.	1.0	4
116	Calorimetric and acoustic emission study of the premartensitic and martensitic transitions in $Ni-Mn-Ga$. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 378, 353-356.	2.6	12
117	Kinetics of the phase separation in $Cu-Al-Mn$ alloys and the influence on martensitic transformations. Philosophical Magazine, 2004, 84, 45-90.	0.7	15
118	Kinetics of martensitic transitions in Cu-Al-Mn under thermal cycling: Analysis at multiple length scales. Physical Review B, 2004, 69, .	1.1	58
119	Driving Rate Effects in Avalanche-Mediated First-Order Phase Transitions. Physical Review Letters, 2004, 93, 195701.	2.9	75
120	Multiscale origin of the magnetocaloric effect in Ni-Mn-Ga shape-memory alloys. Physical Review B, 2003, 68, .	1.1	171
121	Selective spin-state and metal-insulator transitions in $GdBaCo_2O_{5.5}$. Journal of Solid State Chemistry, 2003, 171, 349-352.	1.4	40
122	Enhanced stability of charge-order in underdoped $Bi_{0.75}Sr_{0.25}MnO_3$. Solid State Communications, 2003, 125, 277-280.	0.9	27
123	Low-temperature entropy in Cu-based shape-memory alloys and the boson peak. Physical Review B, 2003, 68, .	1.1	16
124	Charge and Zener polaron order in $Bi_{0.75}Sr_{0.25}MnO_3$. Physical Review B, 2003, 68, .	1.1	28
125	Disorder-induced critical phenomena in magnetically glassy Cu-Al-Mn alloys. Physical Review B, 2003, 67, .	1.1	17
126	A high-sensitivity differential scanning calorimeter with magnetic field for magnetostructural transitions. Review of Scientific Instruments, 2003, 74, 4768-4771.	0.6	61

#	ARTICLE	IF	CITATIONS
127	Magnetic properties and martensitic transition in annealed Ni ₅₀ Mn ₃₀ Al ₂₀ . Journal of Applied Physics, 2003, 93, 8498-8500.	1.1	55
128	The effect of DO ₃ /L ₂₁ phase separation on the martensitic transition of Cu-Al-Mn shape-memory alloys. European Physical Journal Special Topics, 2003, 112, 499-502.	0.2	0
129	Acoustic emission study of martensitic transition kinetics in Cu-based shape-memory alloys. European Physical Journal Special Topics, 2003, 112, 597-600.	0.2	1
130	Vacancies and the martensitic transition in Cu-based shape-memory alloys. A comparative study. European Physical Journal Special Topics, 2003, 112, 471-474.	0.2	6
131	Change in entropy at a first-order magnetoelastic phase transition: Case study of Gd ₅ (SixGe _{1-x}) ₄ giant magnetocaloric alloys. Journal of Applied Physics, 2003, 93, 8313-8315.	1.1	19
132	Martensitic transition and magnetoresistance in a Cu-Al-Mn shape-memory alloy: Influence of ageing. Physical Review B, 2002, 66, .	1.1	25
133	Entropy change and magnetocaloric effect in Gd ₅ (SixGe _{1-x}) ₄ . Physical Review B, 2002, 66, .	1.1	75
134	Coexisting ferro- and antiferromagnetism in Ni ₂ MnAl Heusler alloys. Journal of Applied Physics, 2002, 92, 3867-3871.	1.1	128
135	Scaling of the entropy change at the magnetoelastic transition in Gd ₅ (SixGe _{1-x}) ₄ . Physical Review B, 2002, 66, .	1.1	70
136	Magnetic field induced entropy change and magnetoelasticity in Ni-Mn-Ga alloys. Physical Review B, 2002, 66, .	1.1	124
137	Athermal Character of Structural Phase Transitions. Physical Review Letters, 2001, 87, 195701.	2.9	99
138	Magnetoelasticity and magnetoresistance in Cu-Al-Mn shape-memory alloys. IEEE Transactions on Magnetics, 2001, 37, 2712-2714.	1.2	3
139	Structural and magnetic investigations on Ni ₂ MnAl. European Physical Journal Special Topics, 2001, 11, Pr8-245-Pr8-249.	0.2	6
140	Effect of a magnetic field on the martensitic transition of Cu-Al-Mn alloys. European Physical Journal Special Topics, 2001, 11, Pr8-257-Pr8-262.	0.2	0
141	Phonon softening in Ni ₂ MnGa alloys. Physical Review B, 2001, 64, .	1.1	92
142	Vibrational properties of shape-memory alloys. Solid State Physics, 2001, , 159-267.	1.3	124
143	Structural and magnetic phase transitions in Ni ₂ MnGa shape-memory alloys. , 2000, , 361-374.		11
144	Lattice stability and martensitic transition in $\hat{L}2$ -phase Cu-based shape memory alloys: Long-wavelength acoustic mode anharmonicity. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2000, 80, 1681-1697.	0.8	7

#	ARTICLE	IF	CITATIONS
145	Acoustic Emission at the Premartensitic and Martensitic Transitions of Ni ₂ MnGa Shape Memory Alloy. Materials Science Forum, 2000, 327-328, 481-484.	0.3	5
146	Pretransitional Effects in Martensitic Transformations. Materials Science Forum, 2000, 327-328, 421-428.	0.3	4
147	Premartensitic and martensitic phase transitions in ferromagnetic Ni ₂ MnGa. Physical Review B, 1999, 60, 7085-7090.	1.1	100
148	Anharmonicity of Cu-based shape-memory alloys in the vicinity of their martensitic transition. Physical Review B, 1999, 59, 246-250.	1.1	12
149	Low-lying phonon dispersion curves of DO ₃ Cu ₃ Al(+Be). Physical Review B, 1999, 59, 9239-9242.	1.1	8
150	Aging behavior in Cu-Al-Be shape memory alloy. Journal of Applied Physics, 1999, 85, 130-133.	1.1	7
151	Spin-glass phase in the intermetallic Cu-Al ₂ Mn compound. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 634-636.	1.0	2
152	Magnetoelasticity in the Heusler Ni ₂ MnGa alloy. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 637-638.	1.0	12
153	A comparative study of the post-quench behaviour of Cu-Al-Be and Cu-Zn-Al shape memory alloys. Acta Materialia, 1998, 46, 1045-1053.	3.8	44
154	Magnetoelastic behavior of the Heusler Ni ₂ MnGa alloy. Journal of Applied Physics, 1998, 83, 7300-7302.	1.1	15
155	Non-linear acoustic properties and acoustic-mode vibrational anharmonicity of 18R martensite Cu-Zn-Al shape-memory alloy. Journal of Physics Condensed Matter, 1998, 10, 9737-9746.	0.7	4
156	Order-disorder transitions of Cu-Al-Mn shape-memory alloys. Physical Review B, 1998, 58, 14245-14255.	1.1	81
157	Experimental Evidence for Universality of Acoustic Emission Avalanche Distributions during Structural Transitions. Physical Review Letters, 1998, 81, 1889-1892.	2.9	93
158	Premartensitic Transition Driven by Magnetoelastic Interaction in bcc Ferromagnetic Ni ₂ MnGa. Physical Review Letters, 1997, 79, 3926-3929.	2.9	192
159	Anomalies related to the TA ₂ -phonon-mode condensation in the Heusler Ni ₂ MnGa alloy. Physical Review B, 1997, 55, 11068-11071.	1.1	158
160	Temperature dependence of the second-order elastic constants of Cu-Zn-Al shape-memory alloy in its martensitic and β phases. Physical Review B, 1997, 56, 5200-5206.	1.1	16
161	Stability of the bcc phase of Cu-Al-Mn shape-memory alloys. Physical Review B, 1997, 56, 20-23.	1.1	92
162	Quenching Investigations on DO ₃ Cu-Al-Be. Materials Science Forum, 1997, 255-257, 581-583.	0.3	0

#	ARTICLE	IF	CITATIONS
163	Study of the order-disorder phase transitions in Cu-Al-Be shape memory alloys. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1997, 75, 1237-1250.	0.8	39
164	Influence of Composition and Thermal Treatments on the Martensitic Transition of Cu-Al-Mn Alloys. European Physical Journal Special Topics, 1997, 07, C5-233-C5-238.	0.2	4
165	Low Temperature Ageing Behaviour of Quenched Cu-Al-Be Shape Memory Alloy. European Physical Journal Special Topics, 1997, 07, C5-305-C5-310.	0.2	3
166	Quenched-in defects and martensitic transformation in Cu-Al-Be shape memory alloys. Acta Materialia, 1997, 45, 2101-2107.	3.8	34
167	Low-cost differential scanning calorimeter. American Journal of Physics, 1996, 64, 283-287.	0.3	16
168	Third-order elastic constants of bcc Cu-Al-Ni. Physical Review B, 1996, 54, 6007-6010.	1.1	20
169	Vibrational behavior of bcc Cu-based shape-memory alloys close to the martensitic transition. Physical Review B, 1996, 53, 3039-3046.	1.1	38
170	Calorimetric and neutron diffraction studies of the commensurate - incommensurate spin-density-wave phase transition of Cr+0.3 at.% Ru alloy. Journal of Physics Condensed Matter, 1996, 8, 7837-7846.	0.7	6
171	Experiments and Models of Avalanches in Martensites. European Physical Journal Special Topics, 1995, 05, C8-209-C8-214.	0.2	7
172	An Experimental Study of the Coupling Between the Order-Disorder Transition and the Martensitic Transformation in Cu-Al-Be Shape Memory Alloys. European Physical Journal Special Topics, 1995, 05, C2-165-C2-170.	0.2	1
173	Statistics of avalanches in martensitic transformations. I. Acoustic emission experiments. Physical Review B, 1995, 52, 12644-12650.	1.1	39
174	Distribution of Acoustic Emission Avalanches in Martensitic Transformations. European Physical Journal Special Topics, 1995, 05, C2-59-C2-64.	0.2	0
175	Elastic constants of bcc Cu-Al-Ni alloys. Physical Review B, 1994, 49, 9969-9972.	1.1	37
176	Distributions of avalanches in martensitic transformations. Physical Review Letters, 1994, 72, 1694-1697.	2.9	205
177	Metallic state and the metal-insulator transition of NdNiO ₃ . Physical Review B, 1993, 48, 11666-11672.	1.1	97
178	Lattice-dynamical study of the premartensitic state of the Cu-Al-Be alloys. Physical Review B, 1993, 48, 15708-15711.	1.1	25
179	Entropy change of martensitic transformations in Cu-based shape-memory alloys. Physical Review B, 1993, 48, 3611-3619.	1.1	43
180	Influence of configurational atomic order on the relative stability of bcc and close-packed structures in Cu-based alloys. Physical Review B, 1993, 48, 3540-3543.	1.1	16

#	ARTICLE	IF	CITATIONS
181	Calorimetric and ultrasonic investigation of the R-phase formation in a TiNi:Fe alloy. Journal of Physics Condensed Matter, 1992, 4, 7059-7066.	0.7	5
182	Neutron diffraction study of long-range atomic order in Cu-Zn-Al shape memory alloys. Journal of Physics Condensed Matter, 1992, 4, 553-559.	0.7	37
183	Martensitic transformation of Cu-based shape-memory alloys: Elastic anisotropy and entropy change. Physical Review B, 1992, 45, 7633-7639.	1.1	60
184	High-pressure ultrasonic study of vibrational anharmonicity in bcc Cu-Al-Be alloys. Physical Review B, 1992, 46, 14174-14177.	1.1	10
185	Calorimetric measurements on the $\hat{1}^2\hat{a}\hat{1}\hat{c}\hat{1}^3$ and $\hat{1}^2\hat{a}\hat{1}\hat{c}\hat{1}^2$ martensitic transformations in a cu-al-ni single crystal subjected to uniaxial tensile stress. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1992, 65, 461-475.	0.8	25
186	Acoustic-mode vibrational anharmonicity related to the anomalous thermal expansion of Invar iron alloys. Physical Review B, 1992, 45, 2224-2236.	1.1	54
187	Longitudinal acoustic mode softening and Invar behaviour in Fe72Pt28. Journal of Physics Condensed Matter, 1991, 3, 2273-2278.	0.7	24
188	A CALORIMETRIC INVESTIGATION OF MARTENSITIC TRANSFORMATION UNDER APPLIED STRESS IN SINGLE-CRYSTAL Cu-AL-Ni ALLOYS. European Physical Journal Special Topics, 1991, 01, C4-71-C4-76.	0.2	2
189	Magnetic origins of the phase transitional behaviour at 200 K in Ca0.5Zn0.5Fe2O4. Solid State Communications, 1991, 78, 413-417.	0.9	2
190	Intrinsic ultrasonic attenuation during the martensitic transformation of Cu-Zn-Al. Journal of Physics Condensed Matter, 1991, 3, 6257-6266.	0.7	1
191	Elastic behaviour of Nd1.85Ce0.15CuO4-yand Nd2CuO4-y. Superconductor Science and Technology, 1991, 4, S199-S201.	1.8	2
192	MARTENSITIC TRANSITION ENTROPY CHANGE AND ELASTIC CONSTANTS OF Cu-Al-Be ALLOYS. European Physical Journal Special Topics, 1991, 01, C4-283-C5-288.	0.2	3
193	ULTRASONIC ATTENUATION DURING THE MARTENSITIC TRANSFORMATION IN Cu-Zn-Al SHAPE MEMORY ALLOYS. European Physical Journal Special Topics, 1991, 01, C4-265-C4-269.	0.2	0
194	High Temperature Martensite Induced by Quenching. Physica Status Solidi A, 1990, 117, 113-118.	1.7	6
195	A comparative study of the high-Tcelectron superconductor Nd1.85Ce0.15CuO4-yand its parent compound Nd2CuO4-y. Superconductor Science and Technology, 1990, 3, 422-428.	1.8	9
196	A calorimetric investigation of the $\hat{1}^2\hat{a}\hat{1}\hat{c}\hat{1}^3$ and $\hat{1}^2\hat{a}\hat{1}\hat{c}\hat{1}^2$ martensitic transformations in Cu $\hat{1}$ -Al $\hat{1}$ -Ni single crystals. Scripta Metallurgica Et Materialia, 1990, 24, 1641-1645.	1.0	20
197	Acoustic emission in martensitic transformations. Acta Metallurgica Et Materialia, 1990, 38, 1635-1642.	1.9	25
198	Acoustic emission field during thermoelastic martensitic transformations. Applied Physics Letters, 1989, 54, 2574-2576.	1.5	19

#	ARTICLE	IF	CITATIONS
199	Calorimetric study of the influence of thermal cycling on the martensitic transformation of Cu-Zn-Al alloys. <i>Journal Physics D: Applied Physics</i> , 1989, 22, 1712-1720.	1.3	17
200	Acoustic emission amplitude distribution during the martensitic transformation of Cu-Zn-Al alloys. <i>Journal Physics D: Applied Physics</i> , 1989, 22, 977-982.	1.3	10
201	Effect of $\hat{1}^3$ precipitates on the martensitic transformation of $\hat{1}^2$ Cu-Zn-Al studied by calorimetry. <i>Scripta Metallurgica</i> , 1989, 23, 579-583.	1.2	29
202	Ultrasonic attenuation during the martensitic transformation in Cu-Zn-Al shape-memory alloys measured by a broad-band pulse-echo technique. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1989, 59, 1277-1287.	0.8	3
203	Dynamics of the acoustic emission source during a martensitic transformation. <i>Journal of Physics F: Metal Physics</i> , 1988, 18, 1725-1731.	1.6	5
204	Systematic study of the martensitic transformation in a Cu-Zn-Al alloy. reversibility versus irreversibility via acoustic emission. <i>Thermochimica Acta</i> , 1987, 116, 195-208.	1.2	22
205	Systematic study of the martensitic transformation in a Cu-Zn-Al alloy. Reproducibility of the thermal energy results and cycling effects. <i>Thermochimica Acta</i> , 1986, 106, 209-217.	1.2	19
206	Magnetostrain in Multifunctional Ni-Mn Based Magnetic Shape Memory Alloys. <i>Materials Science Forum</i> , 0, 583, 111-117.	0.3	26
207	Acoustic Emission Avalanches in Martensitic Transitions: New Perspectives for the Problem of Source Location. <i>Solid State Phenomena</i> , 0, 172-174, 144-149.	0.3	4
208	Recent Progress and Future Perspectives in Magnetic and Metamagnetic Shape-Memory Heusler Alloys. <i>Materials Science Forum</i> , 0, 738-739, 391-399.	0.3	12
209	Stress- and Strain-Driven Martensitic Transitions: An Acoustic Emission Study in Single-Crystalline Cu-Zn-Al. , 0, , 425-428.		0
210	Influence of Fe-Addition on Ni-Mn-Ga Ferromagnetic Shape-Memory Alloys. , 0, , 573-576.		0